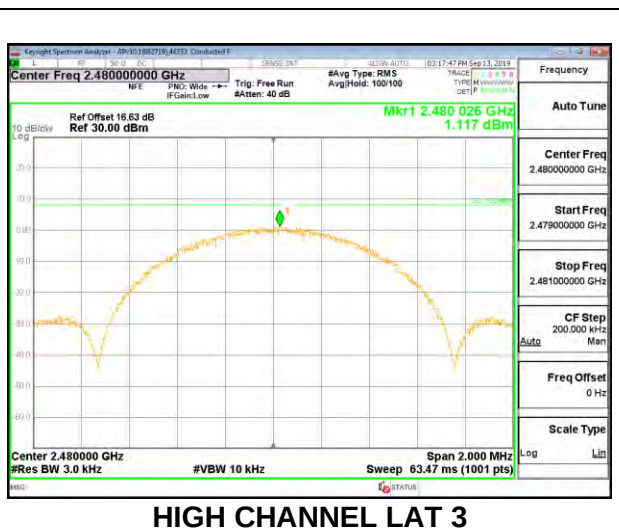
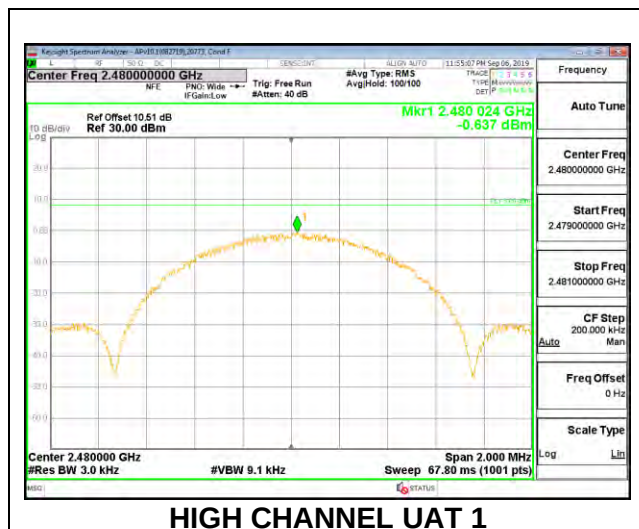
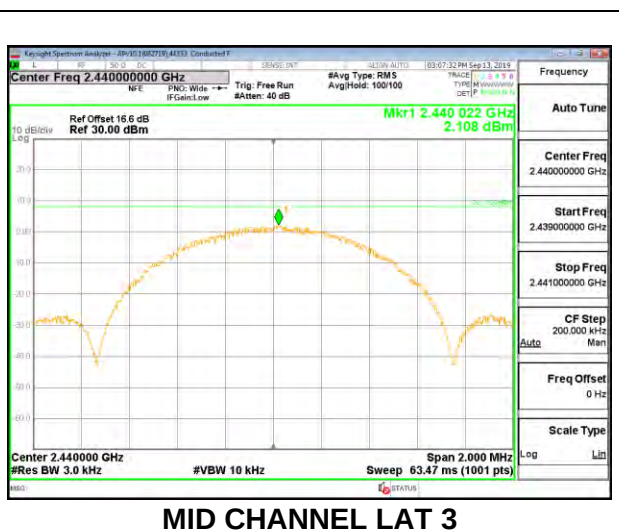
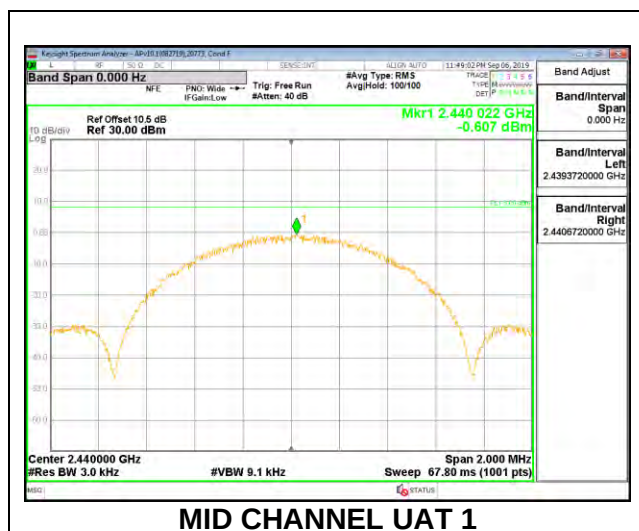
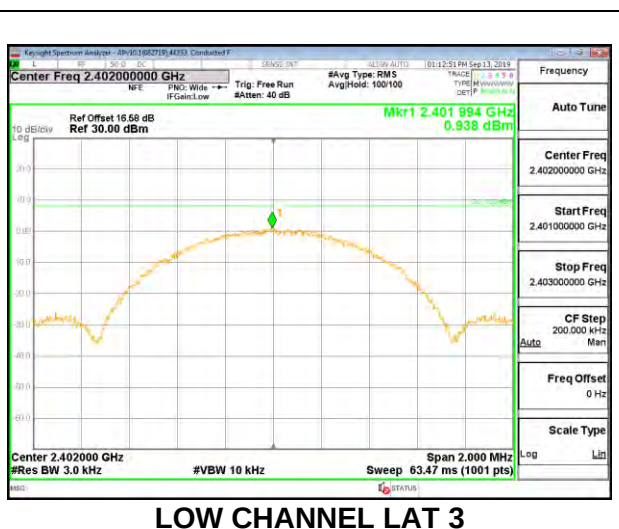
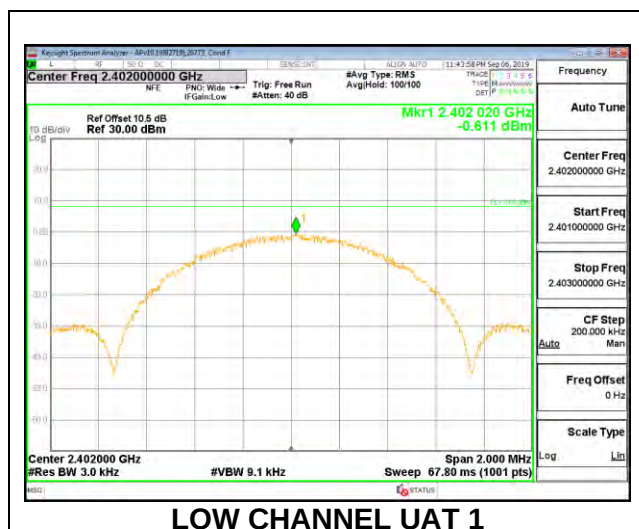


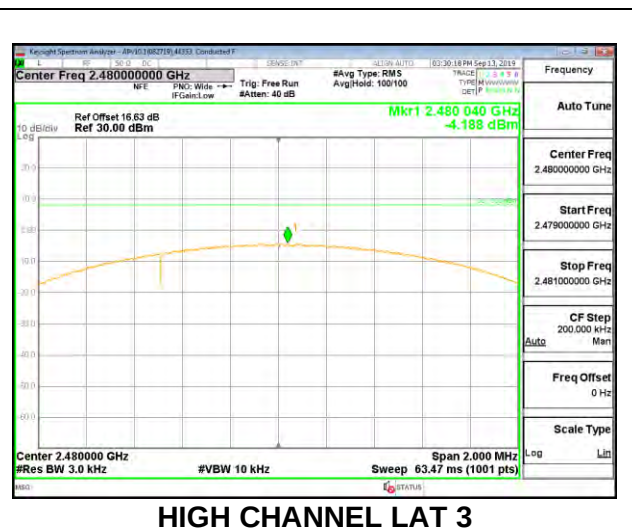
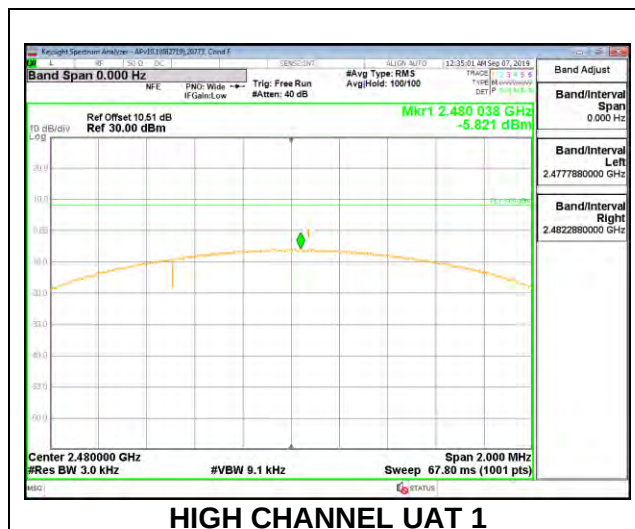
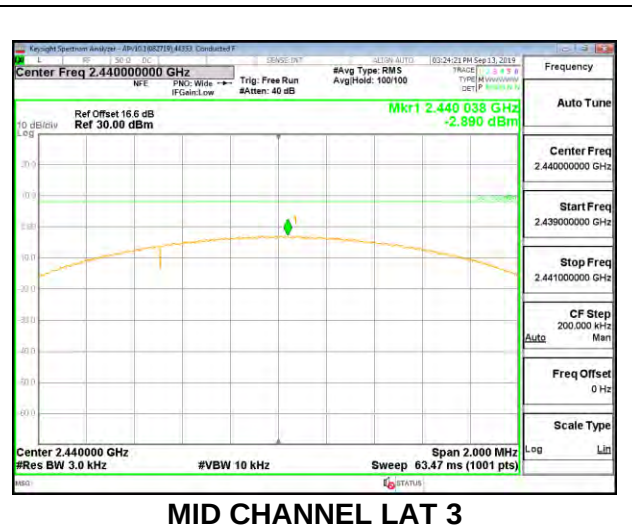
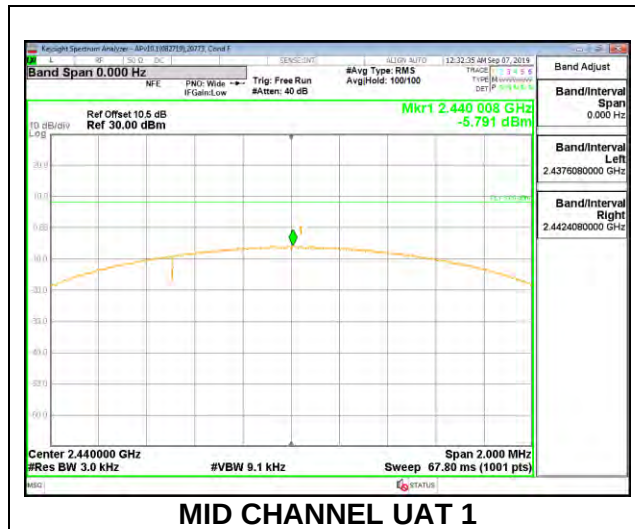
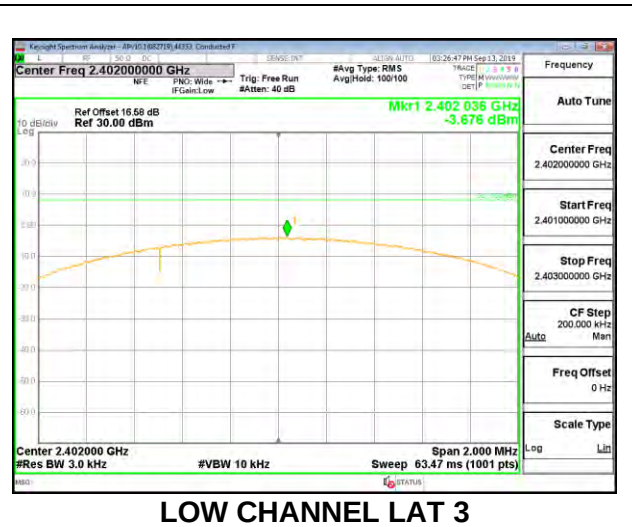
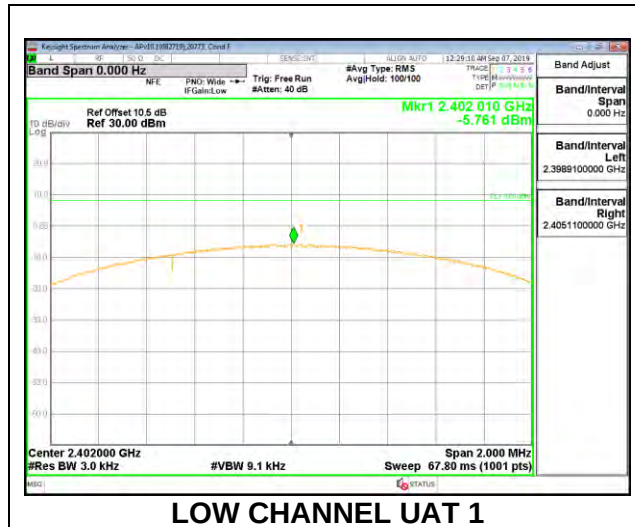


8.12.2. HIGH POWER BLE (2Mbps)

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

PSD Results

Channel	Frequency (MHz)	UAT 1 Meas (dBm/ 3kHz)	LAT 3 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low	2402	-5.761	-3.676	-1.58	8.0	-9.6
Mid	2440	-5.791	-2.890	-1.09	8.0	-9.1
High	2480	-5.821	-4.188	-1.92	8.0	-9.9

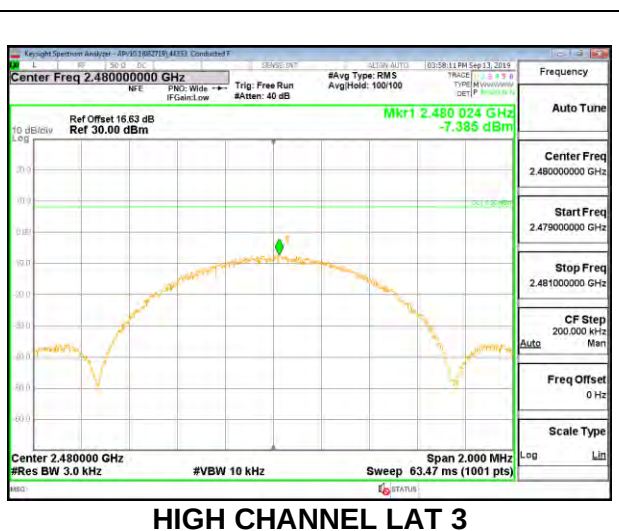
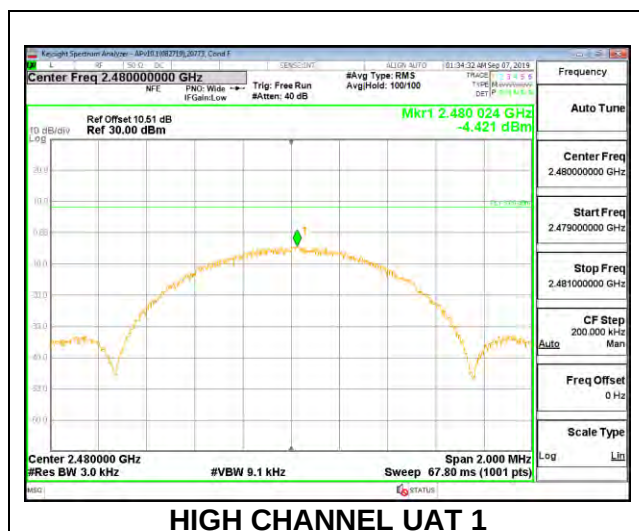
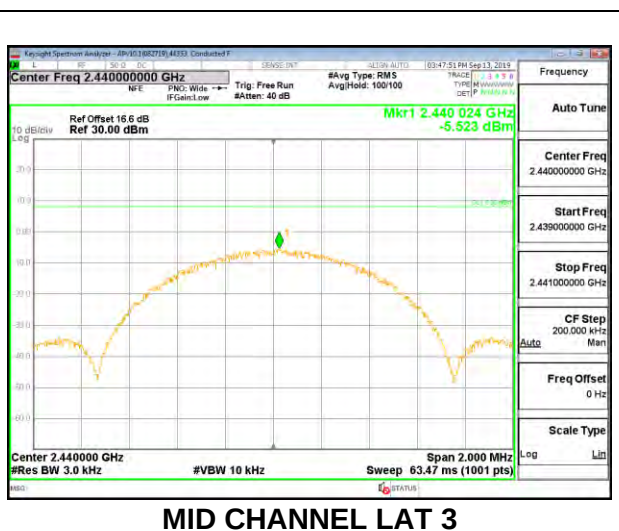
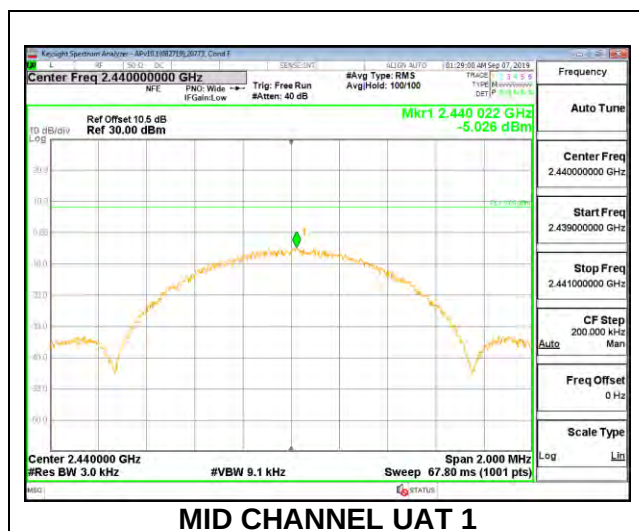
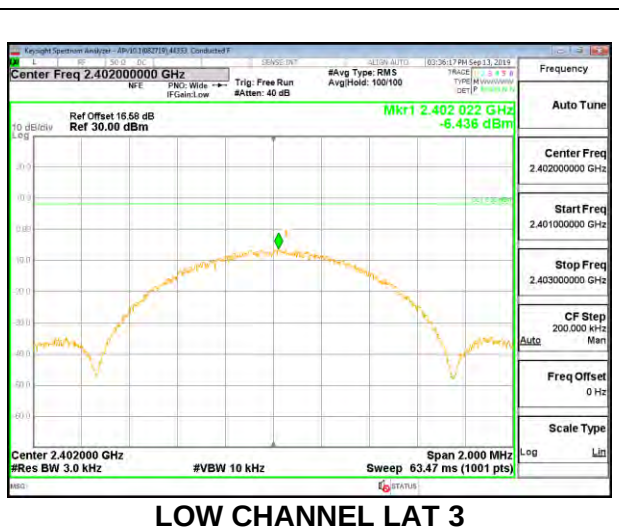
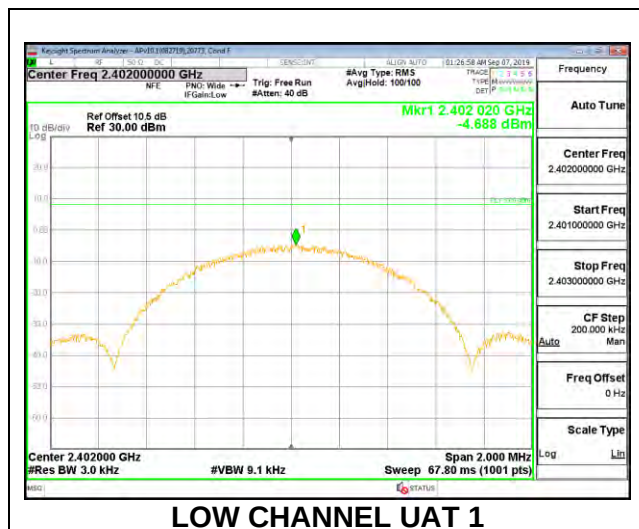


8.12.3. LOW POWER BLE (1Mbps)

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

PSD Results

Channel	Frequency (MHz)	UAT 1 Meas (dBm/ 3kHz)	LAT 3 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low	2402	-4.688	-6.436	-2.46	8.0	-10.5
Mid	2440	-5.026	-5.523	-2.26	8.0	-10.3
Hjigh	2480	-4.421	-7.385	-2.64	8.0	-10.6

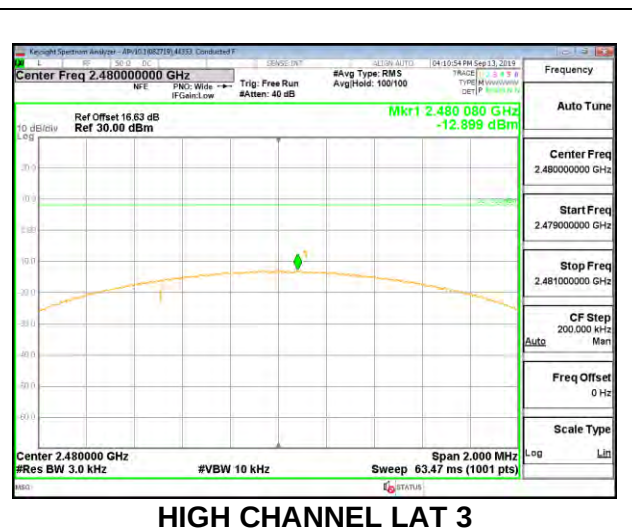
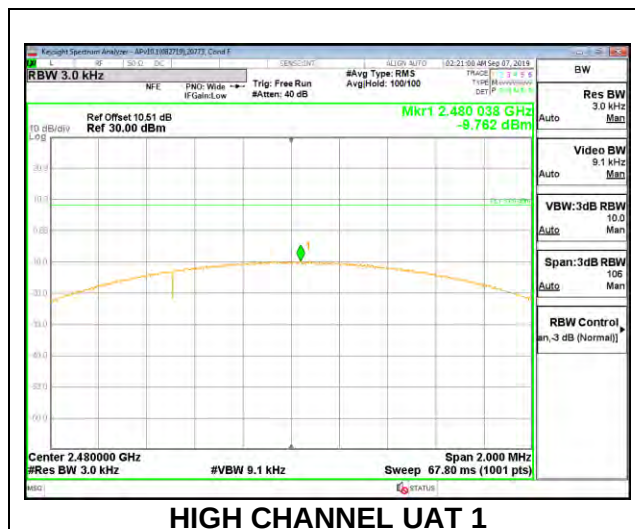
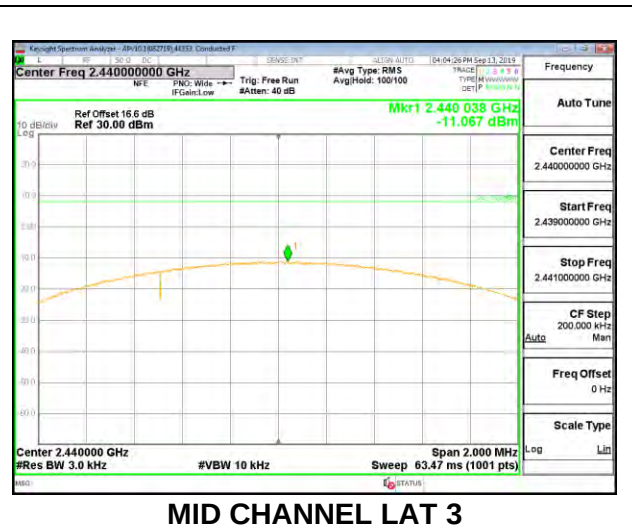
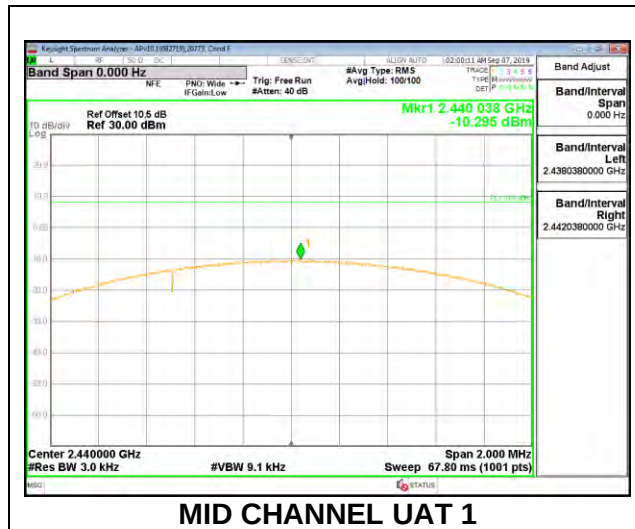
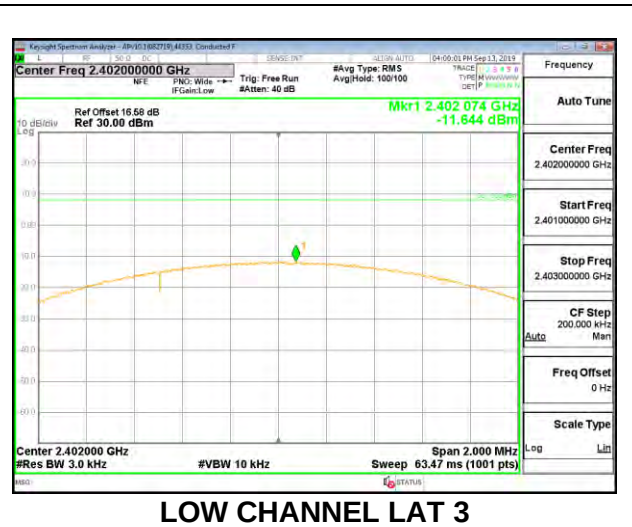
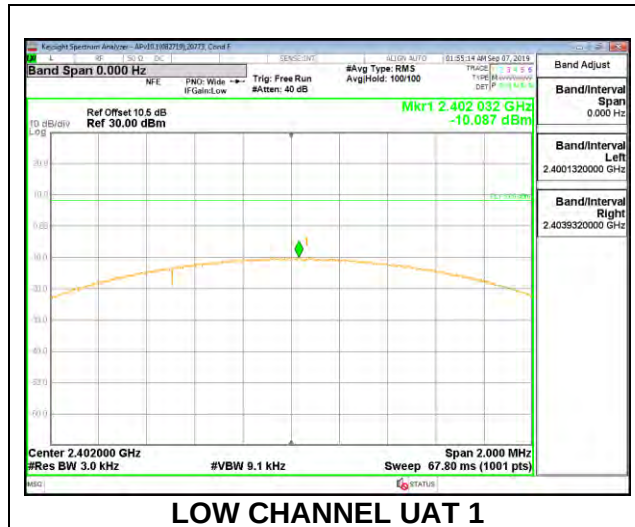


8.12.4. LOW POWER BLE (2Mbps)

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

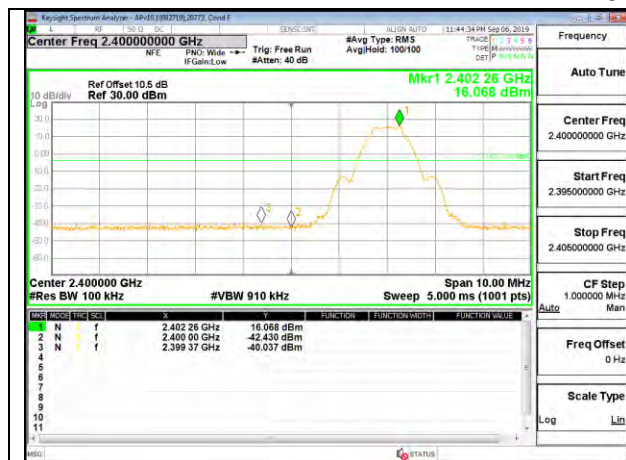
Channel	Frequency (MHz)	UAT 1 Meas (dBm/ 3kHz)	LAT 3 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low	2402	-10.087	-11.644	-7.79	8.0	-15.8
Mid	2440	-10.295	-11.067	-7.65	8.0	-15.7
Hjigh	2480	-9.762	-12.899	-8.04	8.0	-16.0



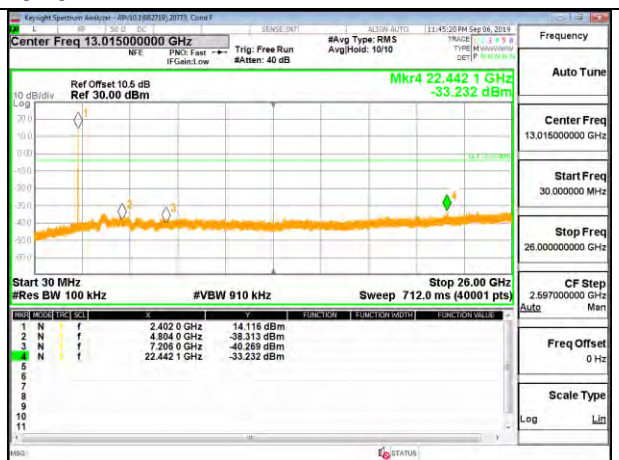
8.13. BEAMFORMING, CONDUCTED SPURIOUS

Note: Test procedures and setting are same as BLE normal mode.

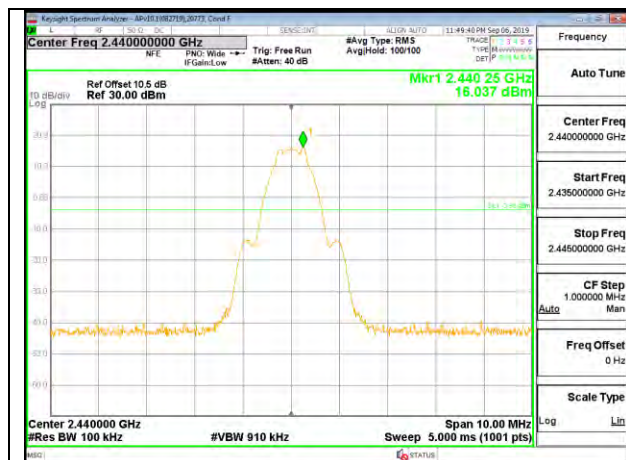
8.13.1. HIGH POWER BLE (1Mbps)



LOW CHANNEL , BANDEDGE UAT 1



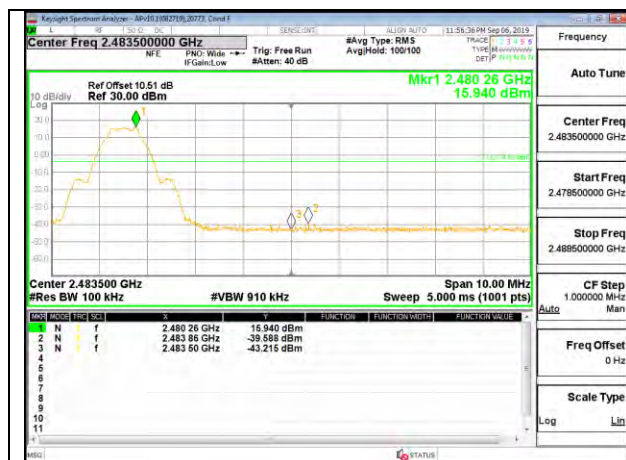
LOW CHANNEL OUT-OF-BAND UAT 1



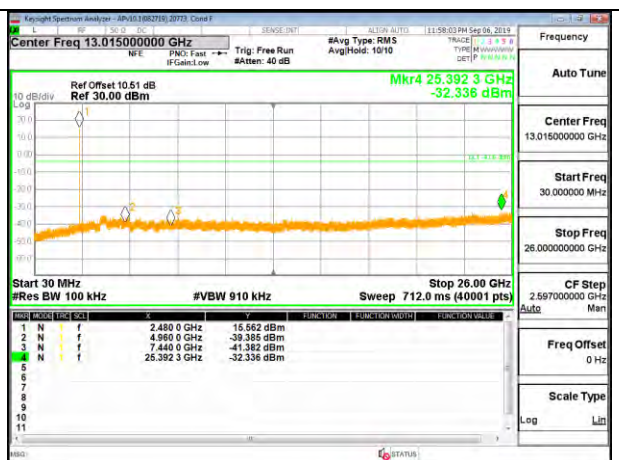
MID CHANNEL REFERENCE UAT 1



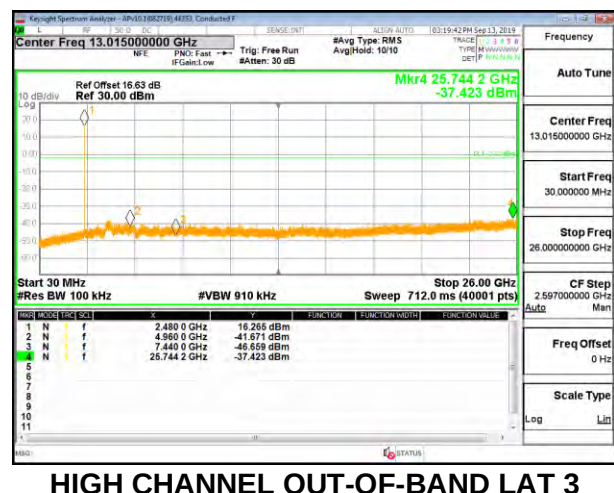
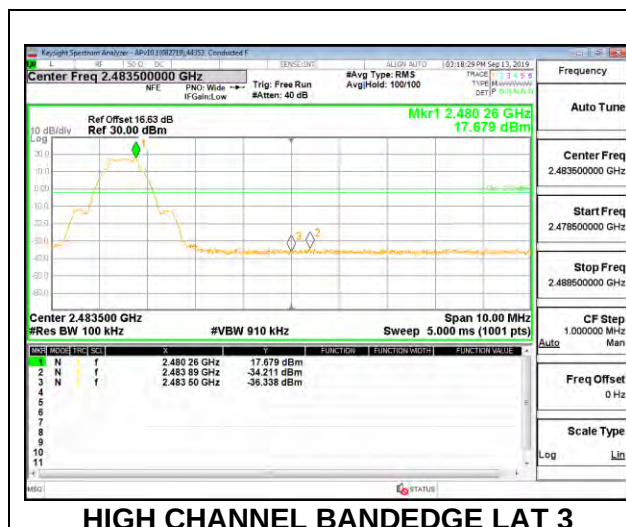
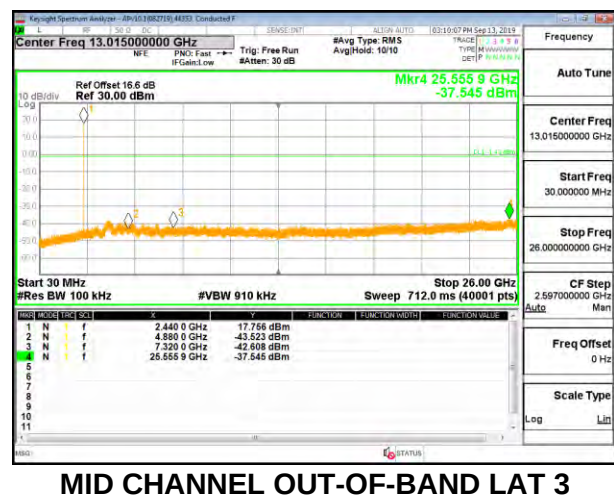
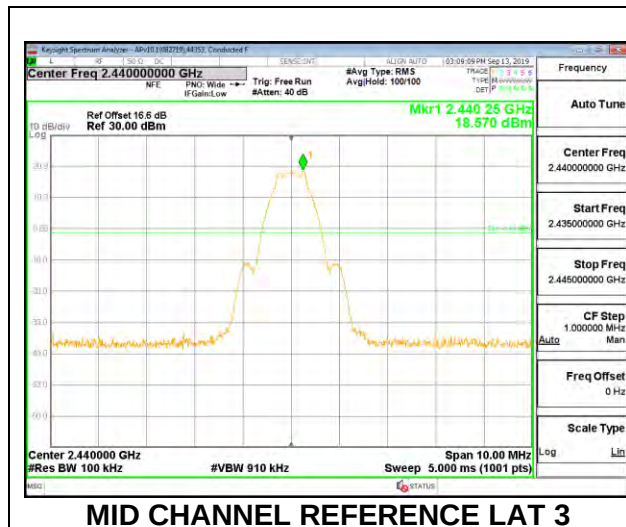
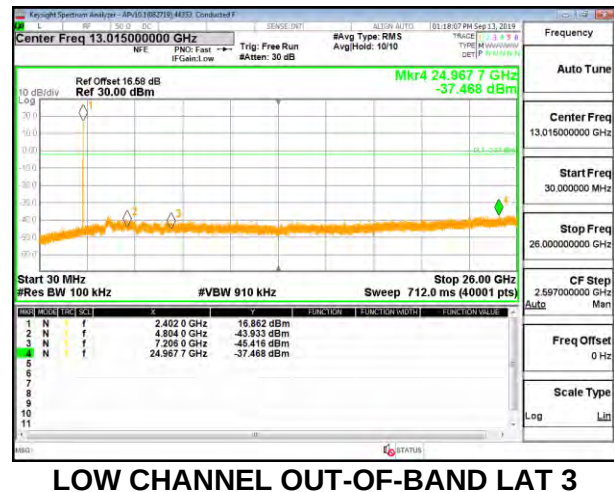
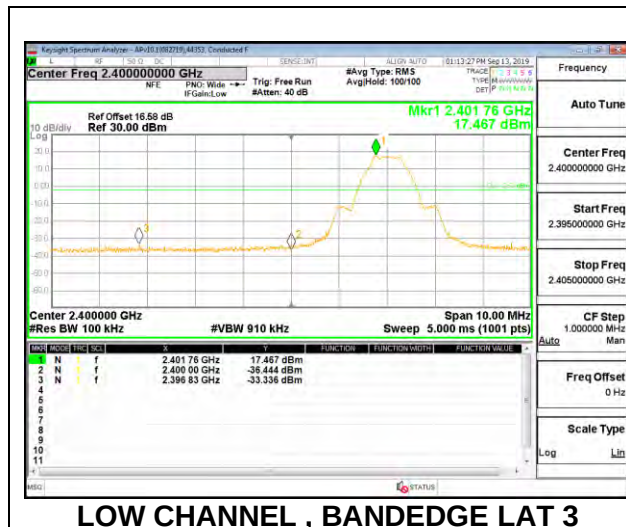
MID CHANNEL OUT-OF-BAND UAT 1



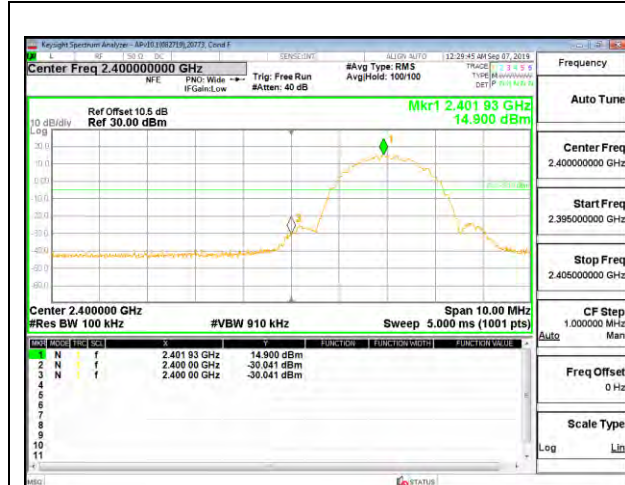
HIGH CHANNEL BANDEDGE UAT 1



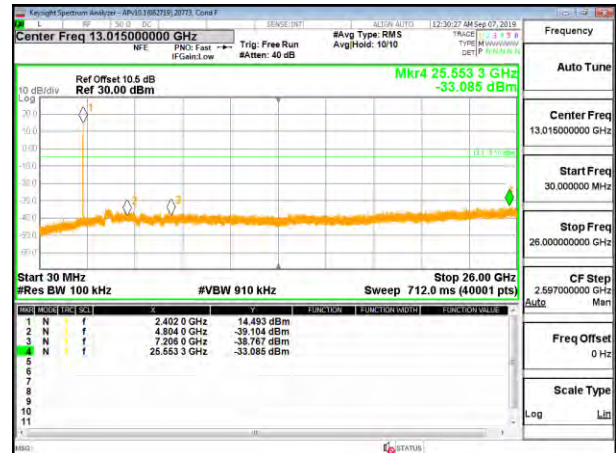
HIGH CHANNEL OUT-OF-BAND UAT 1

HIGH POWER (1Mbps)

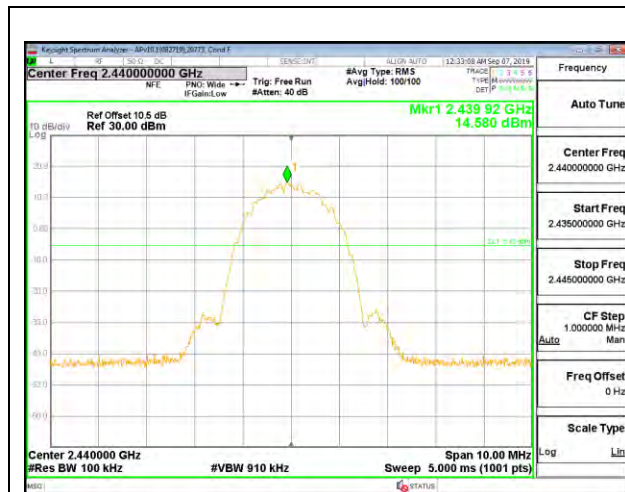
8.13.2. HIGH POWER BLE (2Mbps)



LOW CHANNEL , BANDEDGE UAT 1



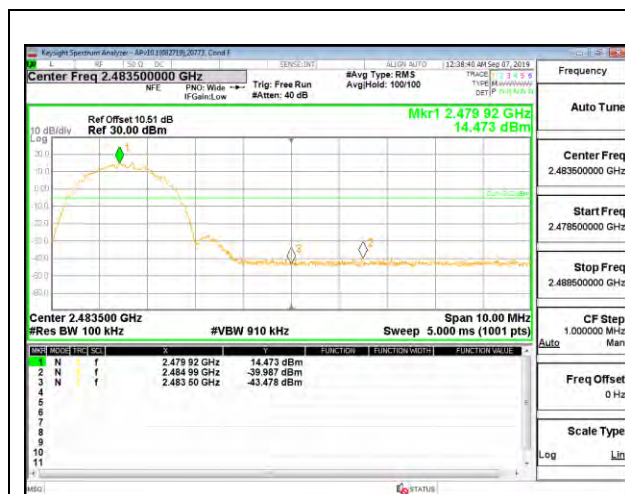
LOW CHANNEL OUT-OF-BAND UAT 1



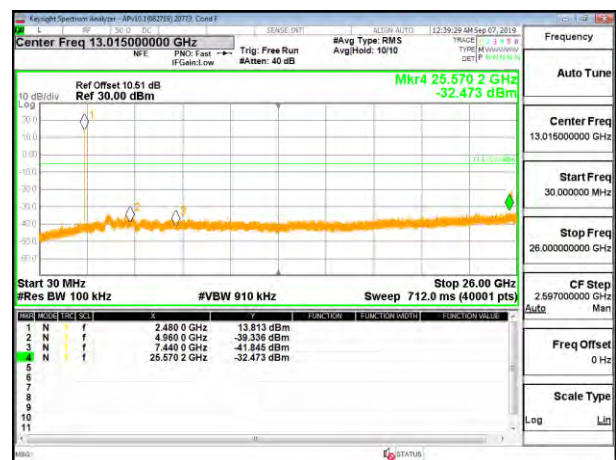
MID CHANNEL REFERENCE UAT 1



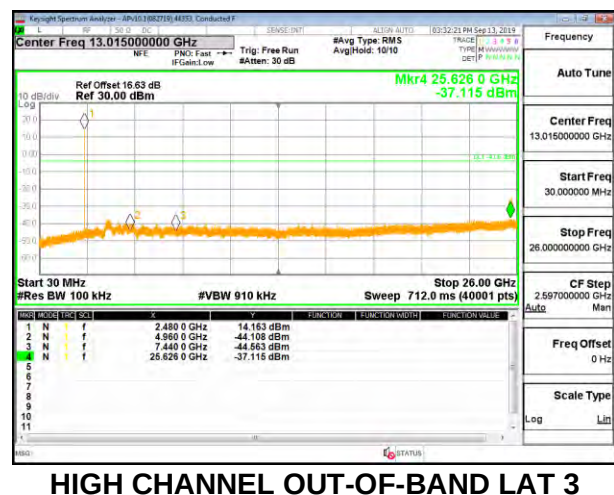
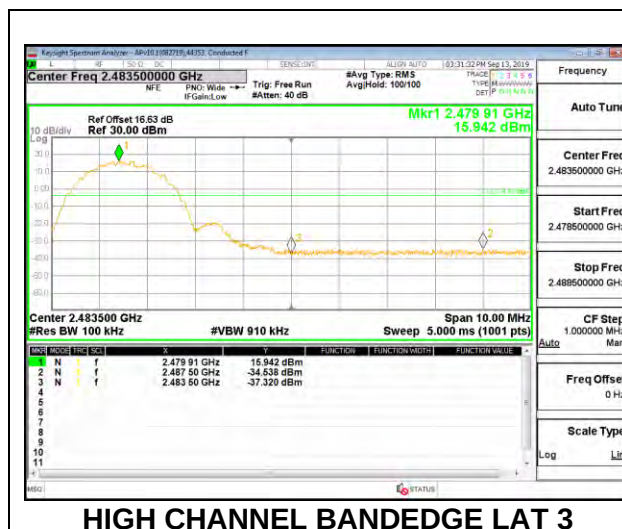
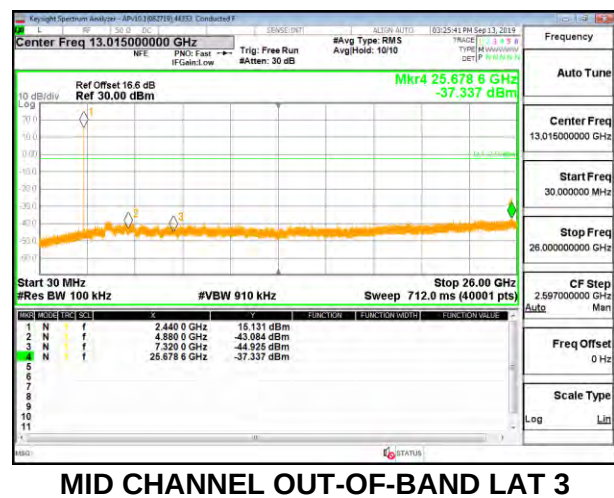
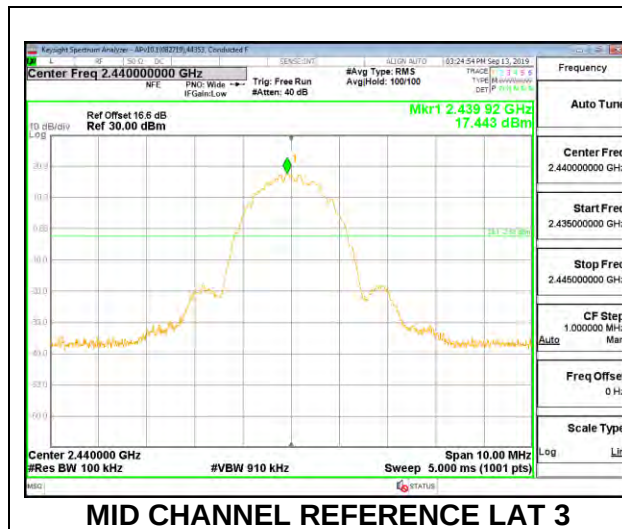
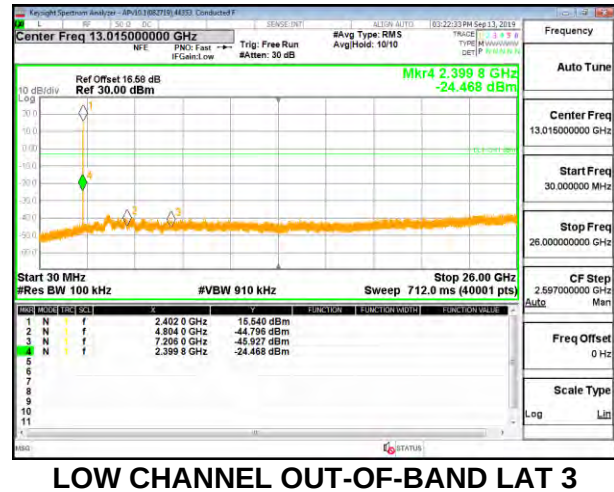
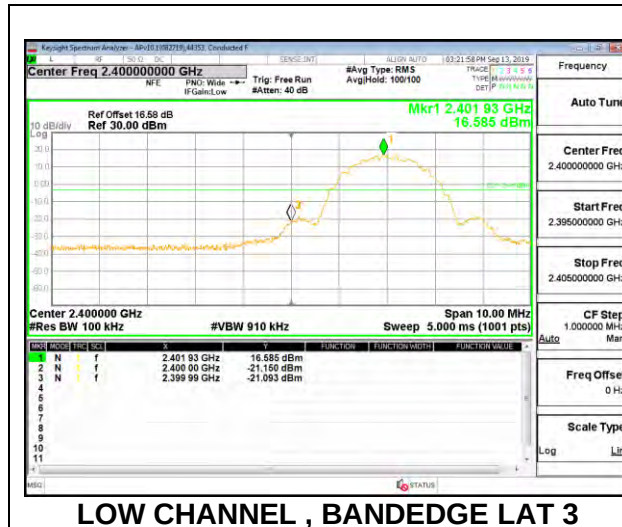
MID CHANNEL OUT-OF-BAND UAT 1



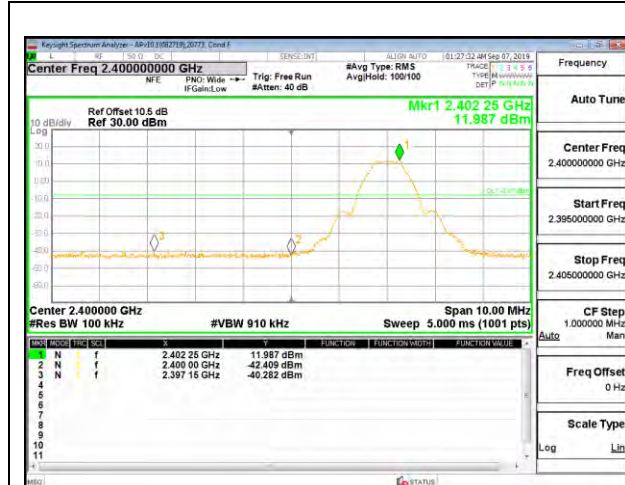
HIGH CHANNEL BANDEDGE UAT 1



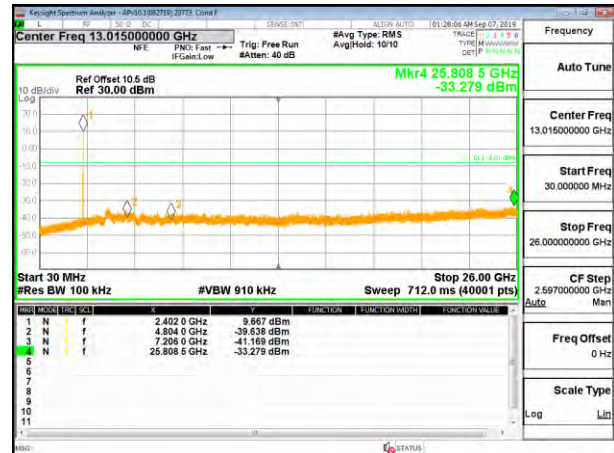
HIGH CHANNEL OUT-OF-BAND UAT 1



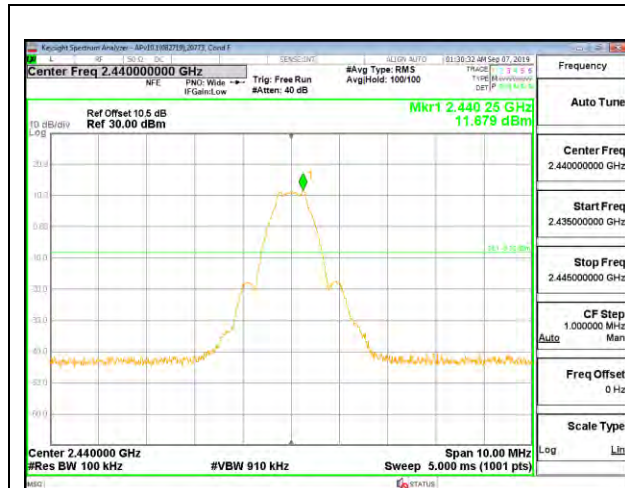
8.13.3. LOW POWER BLE (1Mbps)



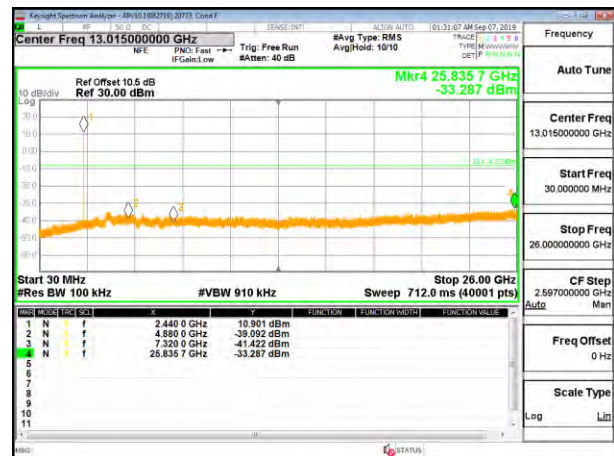
LOW CHANNEL , BANDEDGE UAT 1



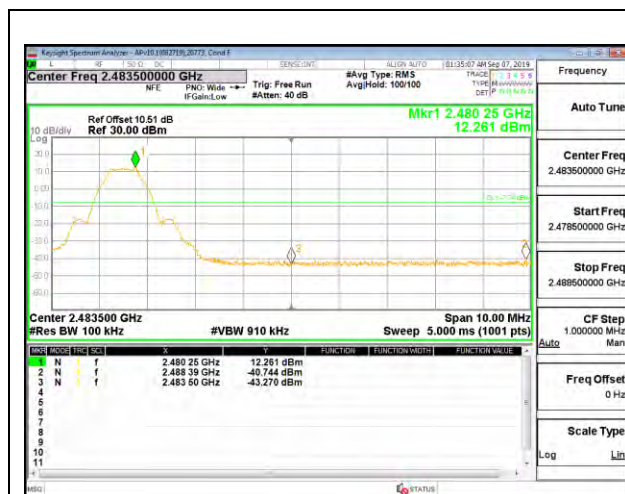
LOW CHANNEL OUT-OF-BAND UAT 1



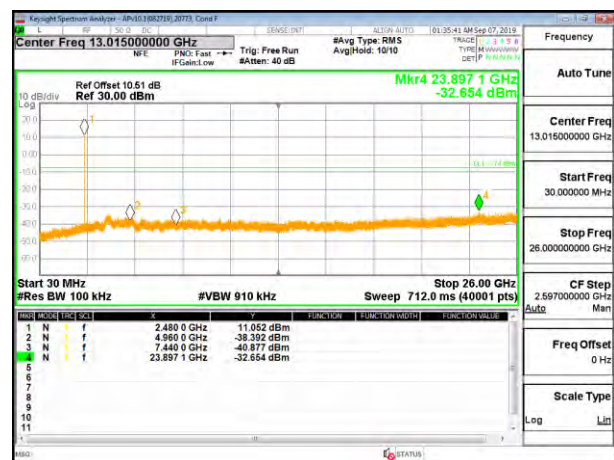
MID CHANNEL REFERENCE UAT 1



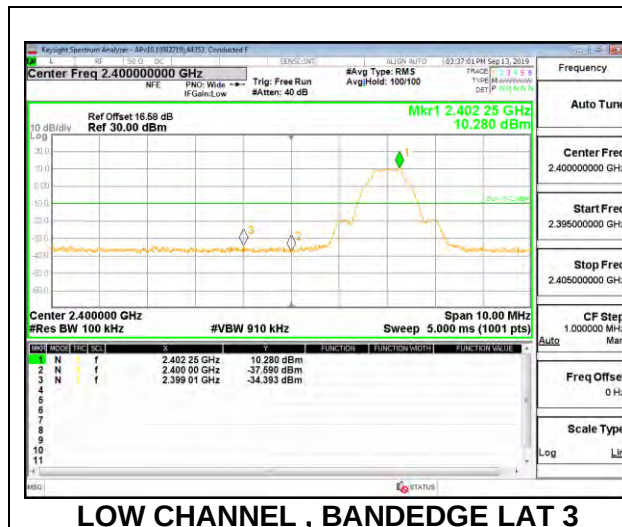
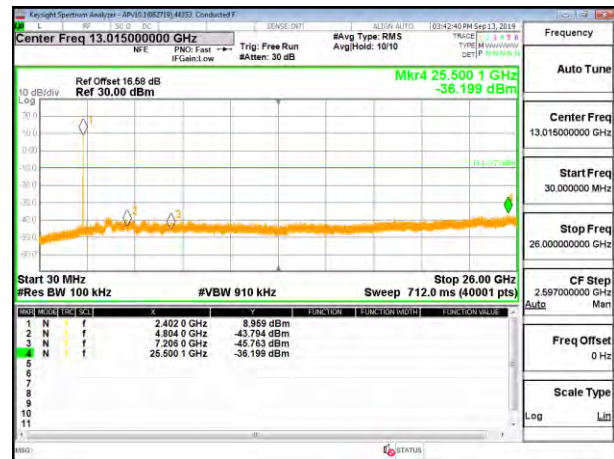
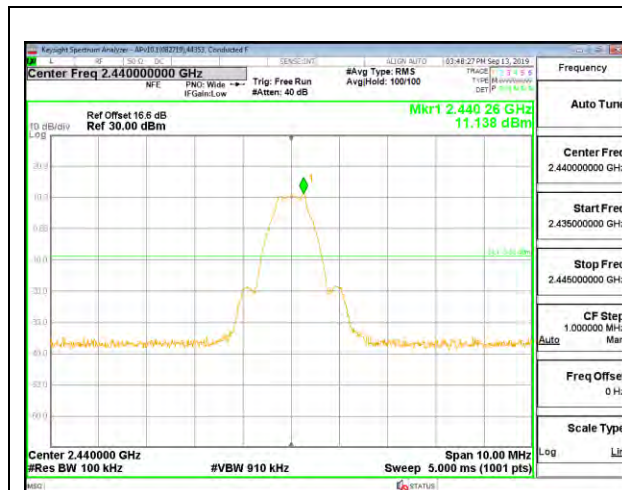
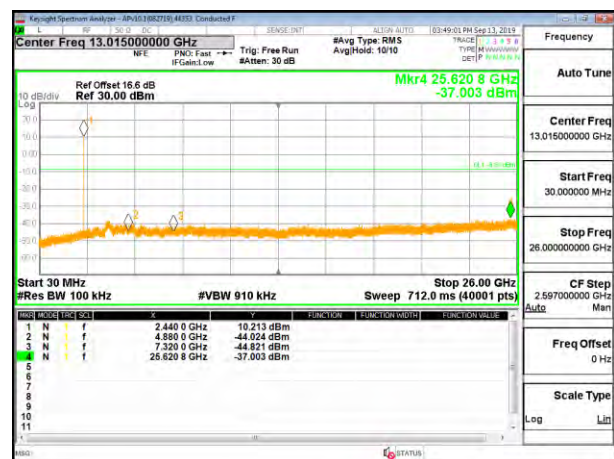
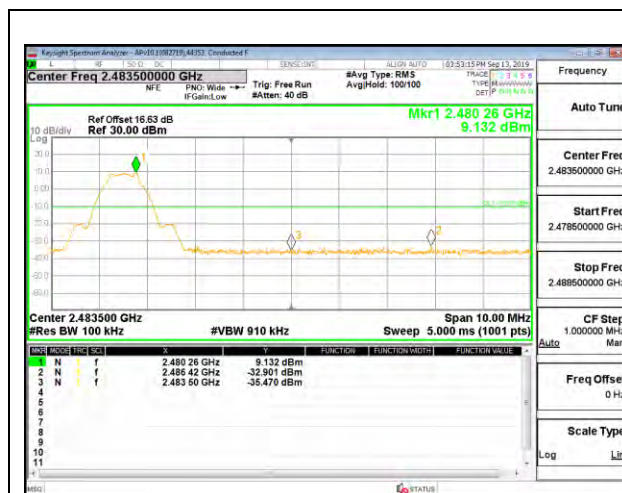
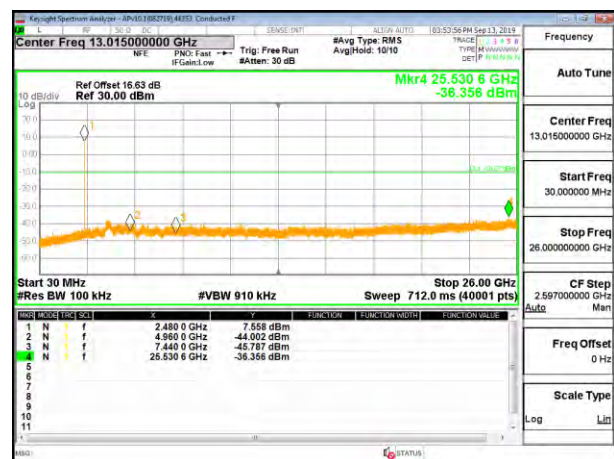
MID CHANNEL OUT-OF-BAND UAT 1



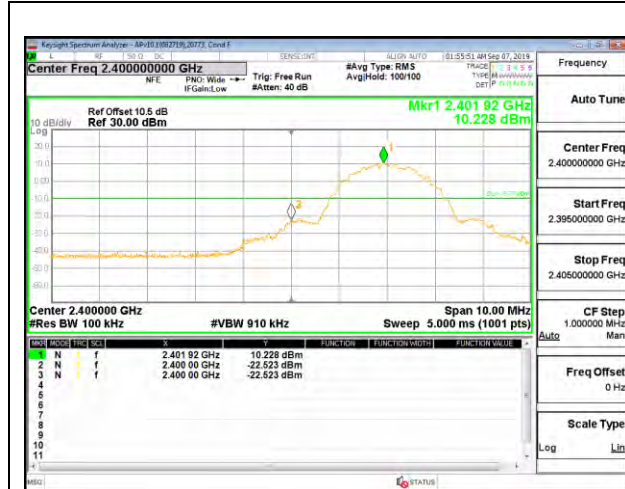
HIGH CHANNEL BANDEDGE UAT 1



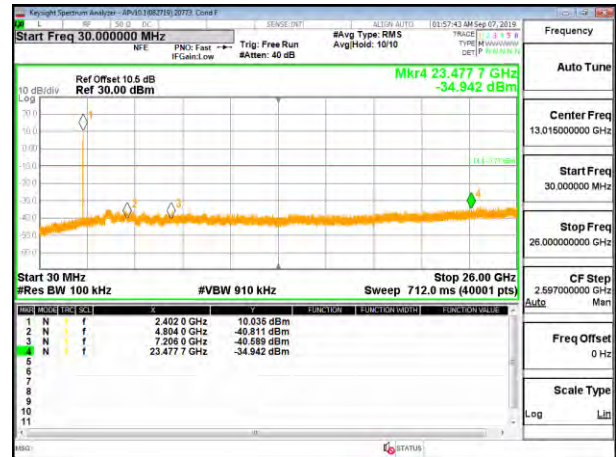
HIGH CHANNEL OUT-OF-BAND UAT 1

LOW POWER (1Mbps)**LOW CHANNEL , BANDEDGE LAT 3****LOW CHANNEL OUT-OF-BAND LAT 3****MID CHANNEL REFERENCE LAT 3****MID CHANNEL OUT-OF-BAND LAT 3****HIGH CHANNEL BANDEDGE LAT 3****HIGH CHANNEL OUT-OF-BAND LAT 3**

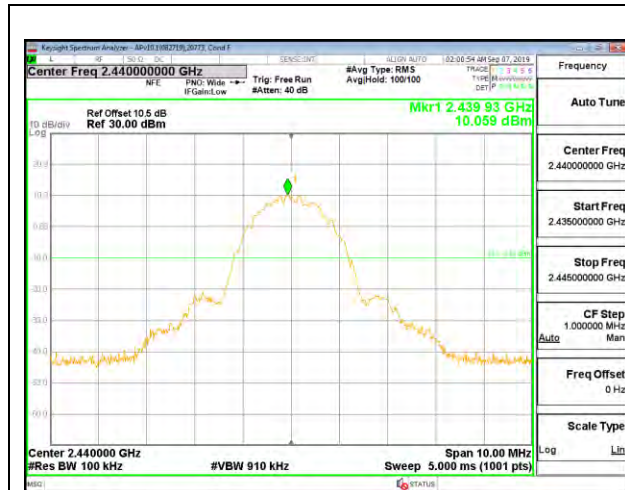
8.13.4. LOW POWER BLE (2Mbps)



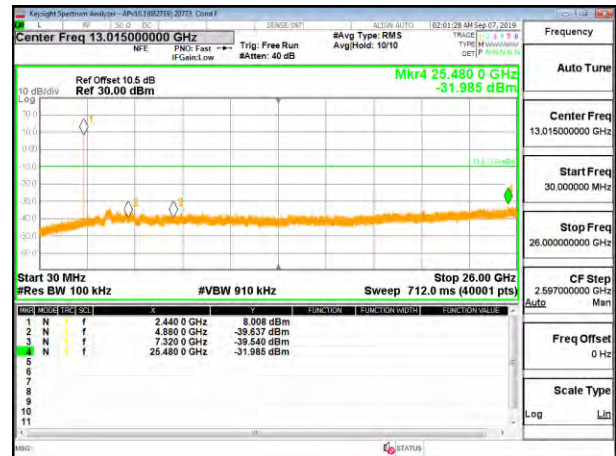
LOW CHANNEL , BANDEDGE UAT 1



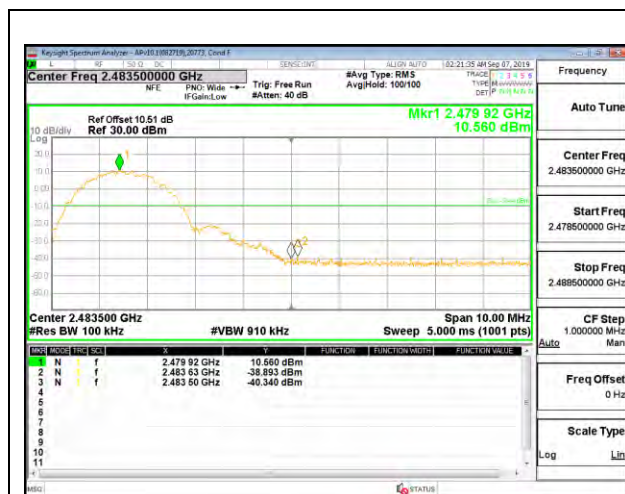
LOW CHANNEL OUT-OF-BAND UAT 1



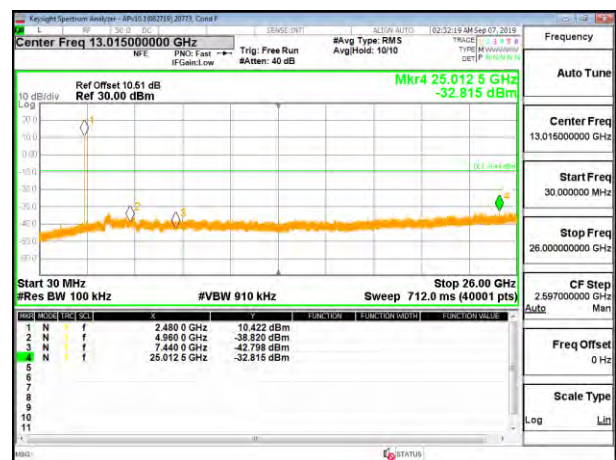
MID CHANNEL REFERENCE UAT 1



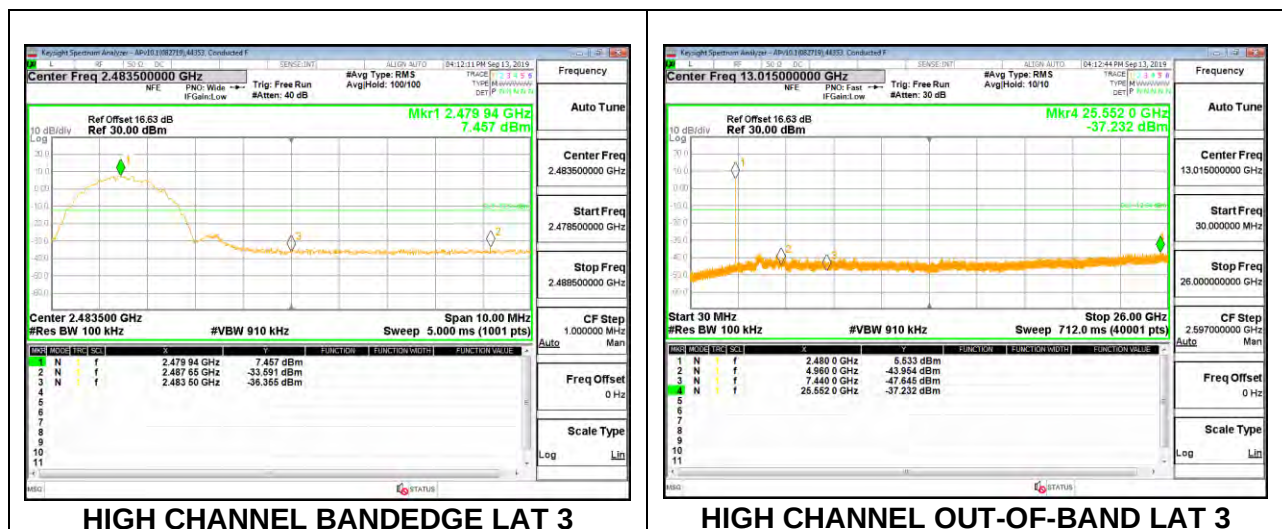
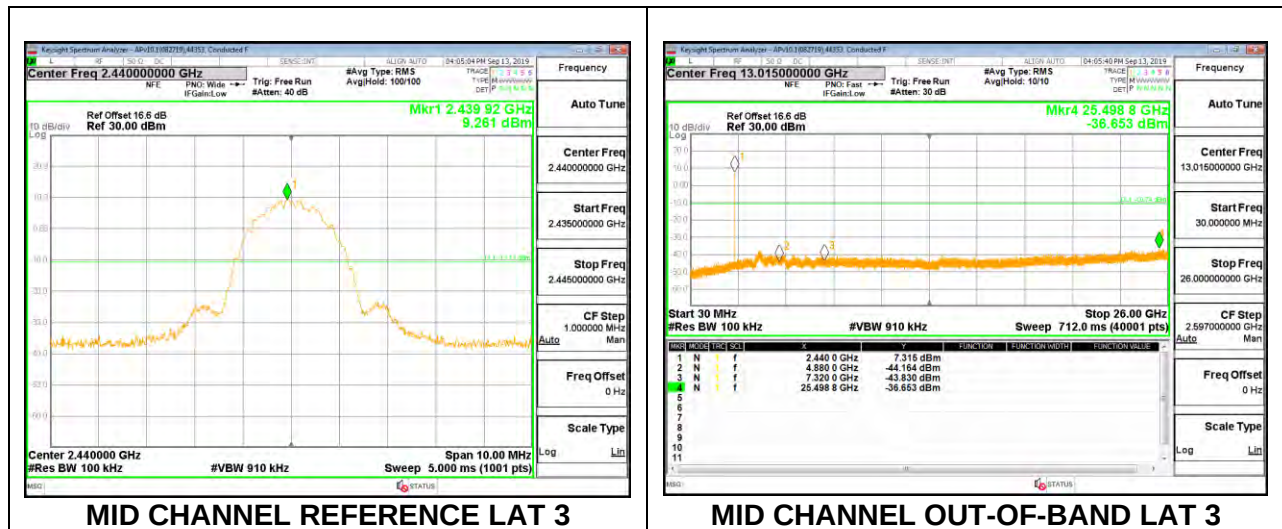
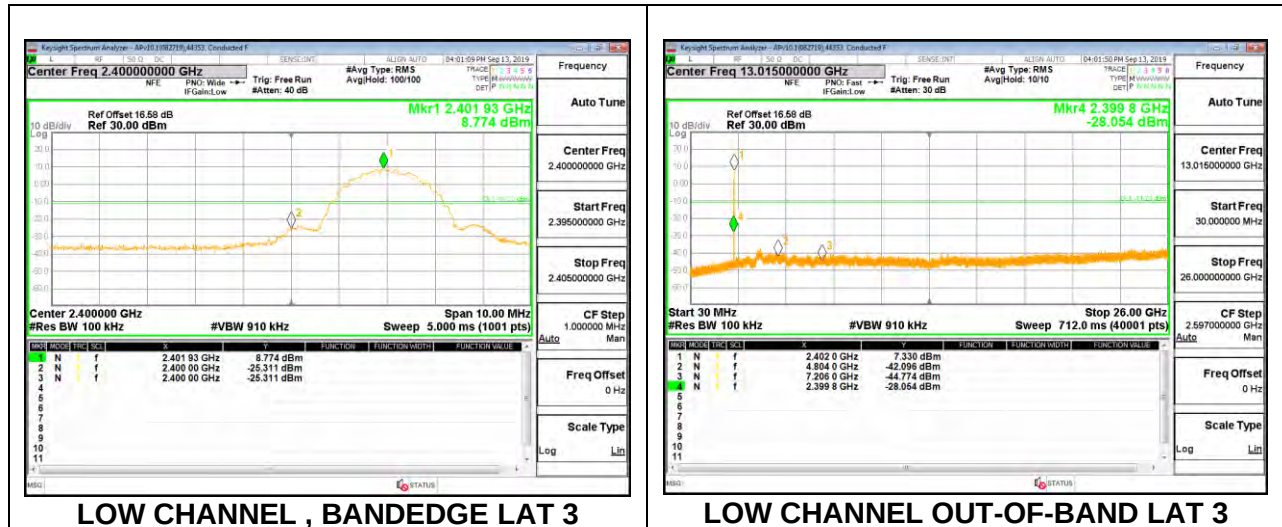
MID CHANNEL OUT-OF-BAND UAT 1



HIGH CHANNEL BANDEDGE UAT 1



HIGH CHANNEL OUT-OF-BAND UAT 1

LOW POWER (2Mbps)

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

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.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

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.

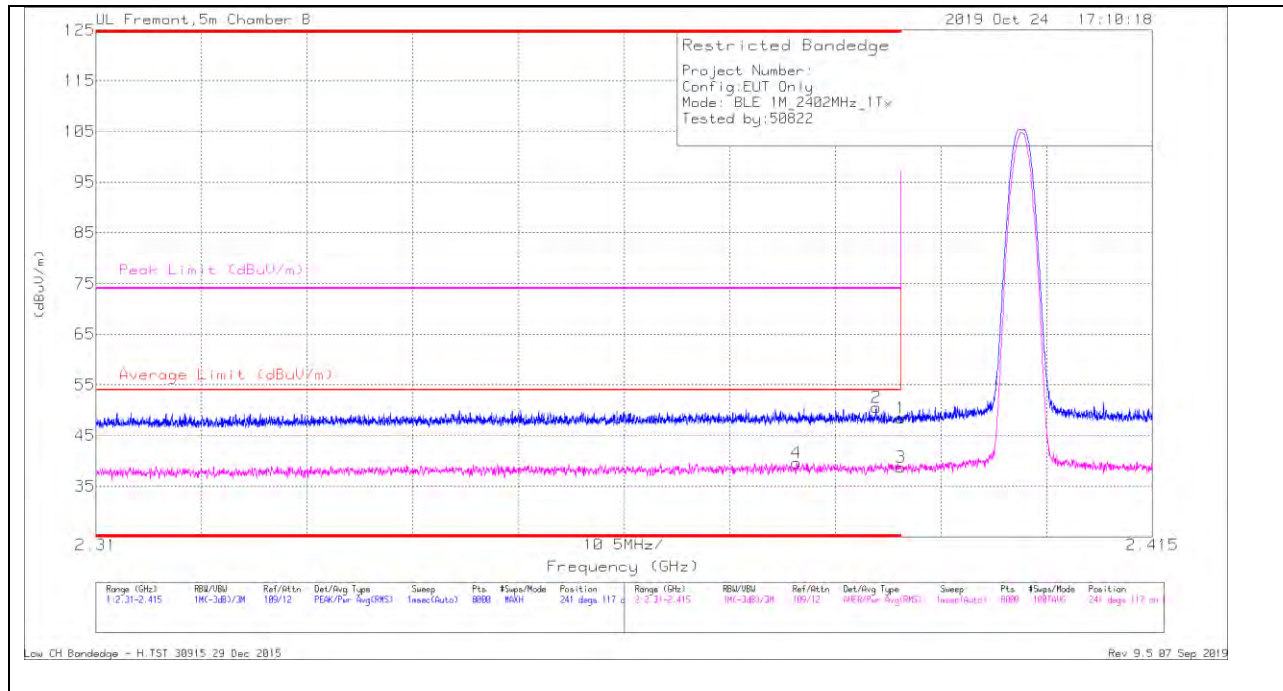
9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. HIGH POWER BLE (1Mbps)

UAT 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

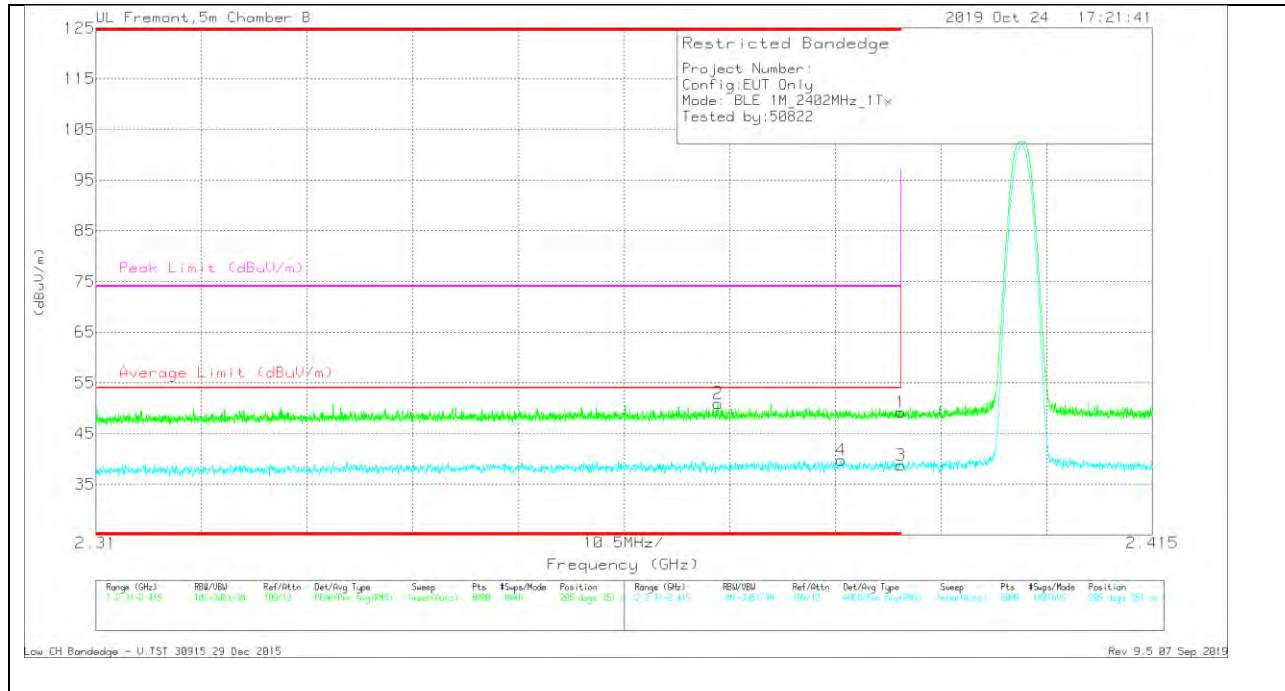


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.07	Pk	30.3	-18.9	48.47	-	-	74	-25.53	241	117	H
2	* 2.38754	39.15	Pk	30.3	-18.9	50.55	-	-	74	-23.45	241	117	H
3	* 2.39	27.3	RMS	30.3	-18.9	38.7	54	-15.3	-	-	241	117	H
4	* 2.37965	28.18	RMS	30.2	-18.8	39.58	54	-14.42	-	-	241	117	H

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

Low CH Bandedge - H.TST 30915 29 Dec 2015
Rev 9.5 07 Sep 2019

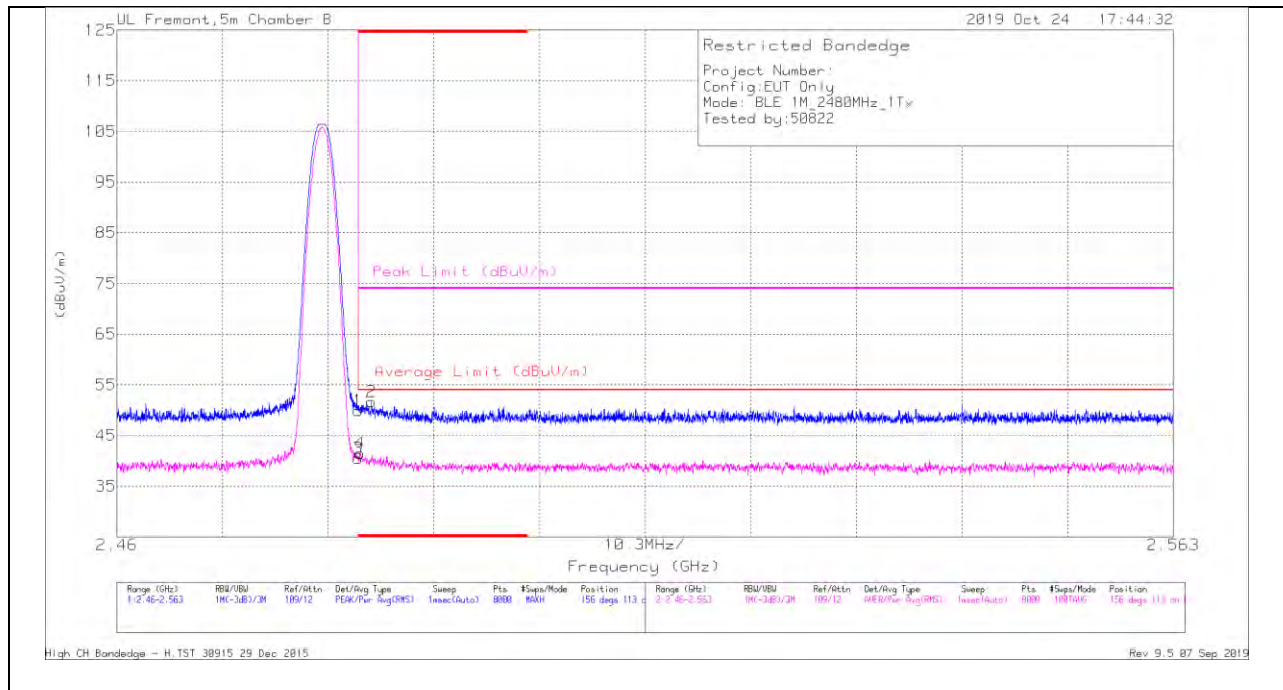
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (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	37.8	Pk	30.3	-18.9	49.2	-	-	74	-24.8	205	351	V
2	* 2.3718	39.67	Pk	30.2	-18.9	50.97	-	-	74	-23.03	205	351	V
3	* 2.39	27.4	RMS	30.3	-18.9	38.8	54	-15.2	-	-	205	351	V
4	* 2.38406	28.43	RMS	30.2	-18.9	39.73	54	-14.27	-	-	205	351	V

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

Low CH Bandedge - V.TST 30915 29 Dec 2015
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BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cb I/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	* 2.4835	38.64	Pk	30.2	-18.9	49.94	-	-	74	-24.06	156	113	H
2	* 2.48481	40.38	Pk	30.2	-18.9	51.68	-	-	74	-22.32	156	113	H
3	* 2.4835	29.21	RMS	30.2	-18.9	40.51	54	-13.49	-	-	156	113	H
4	* 2.48368	30.16	RMS	30.2	-18.9	41.46	54	-12.54	-	-	156	113	H

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

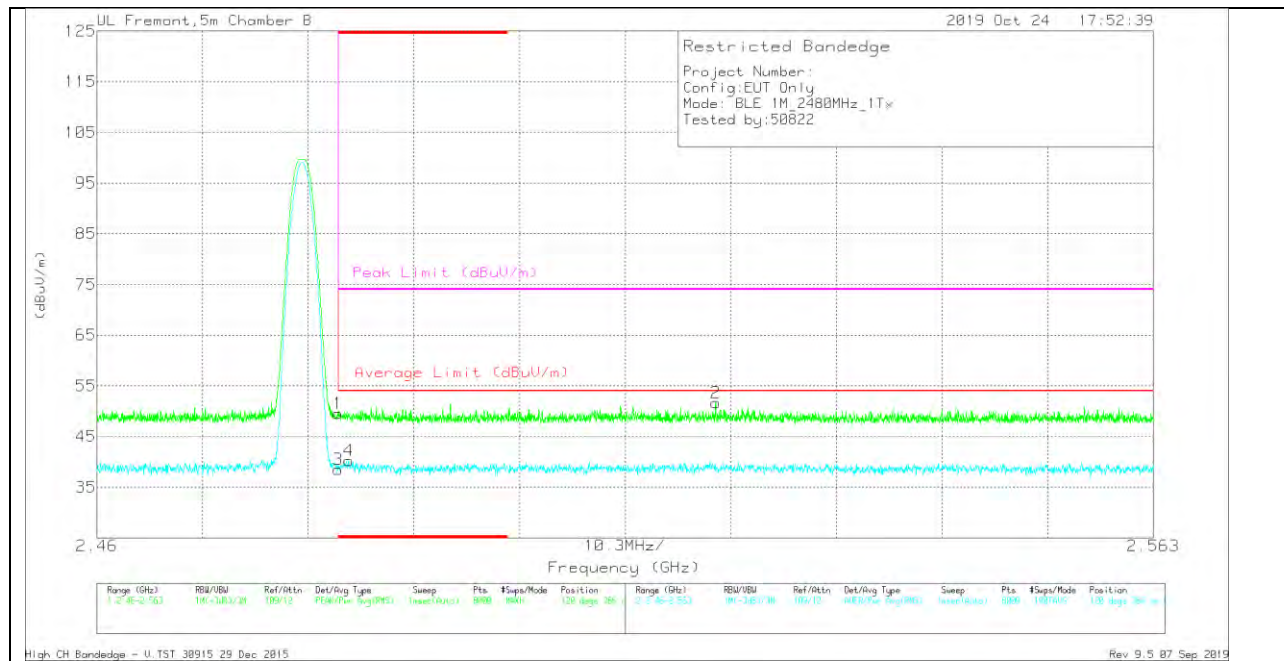
PK - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 29 Dec 2015

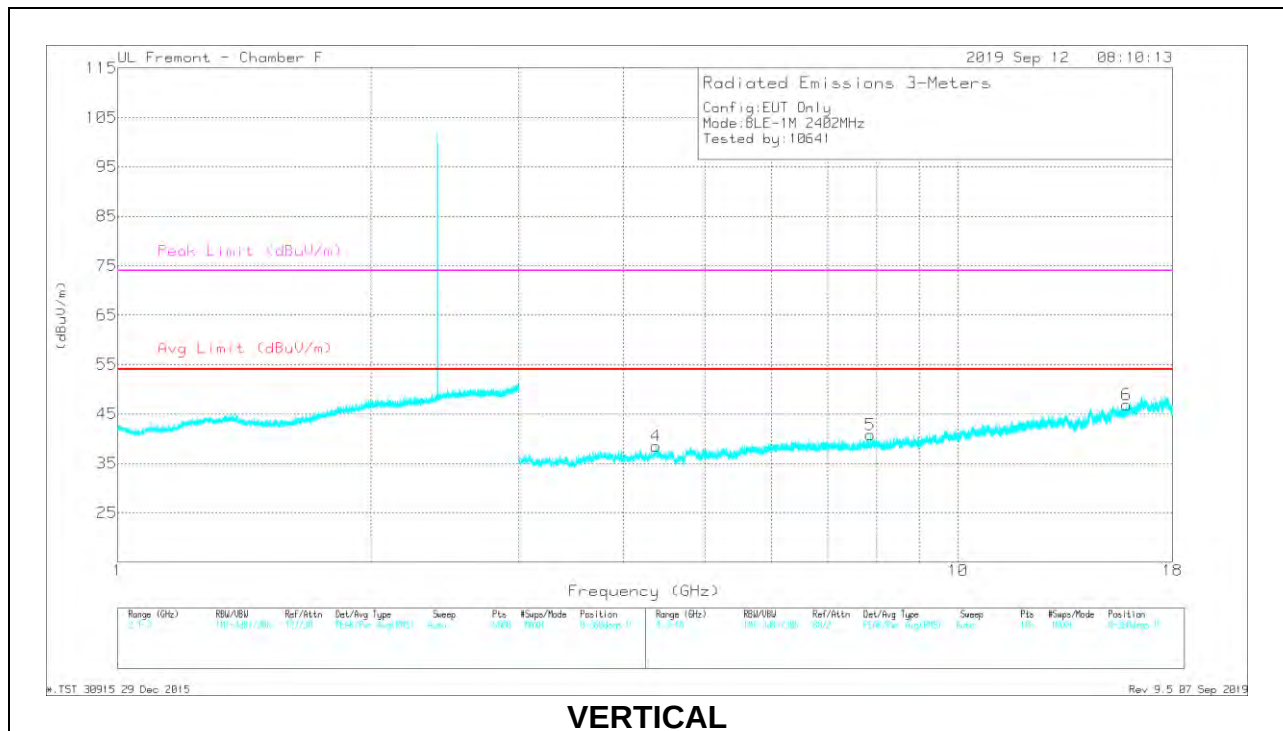
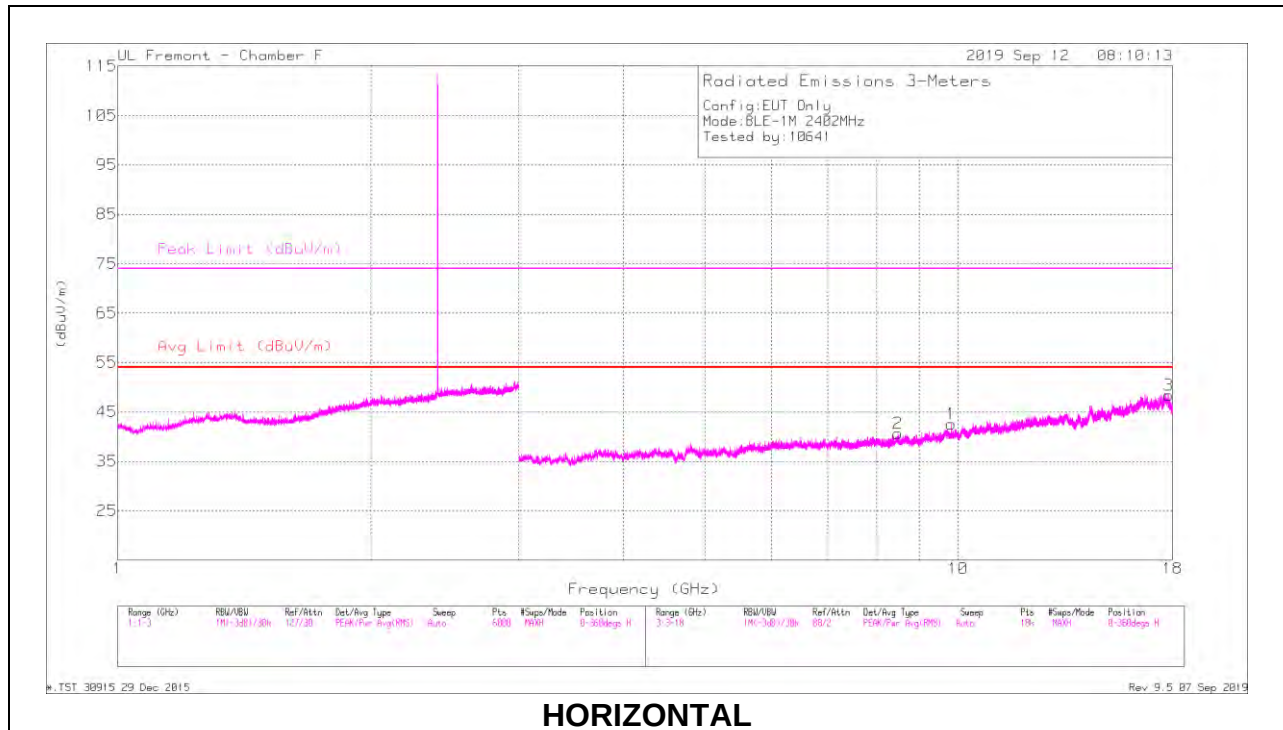
Rev 9.5 07 Sep 2019

VERTICAL RESULT



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

High CH Bandedge - V.TST 30915 29 Dec 2015
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HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

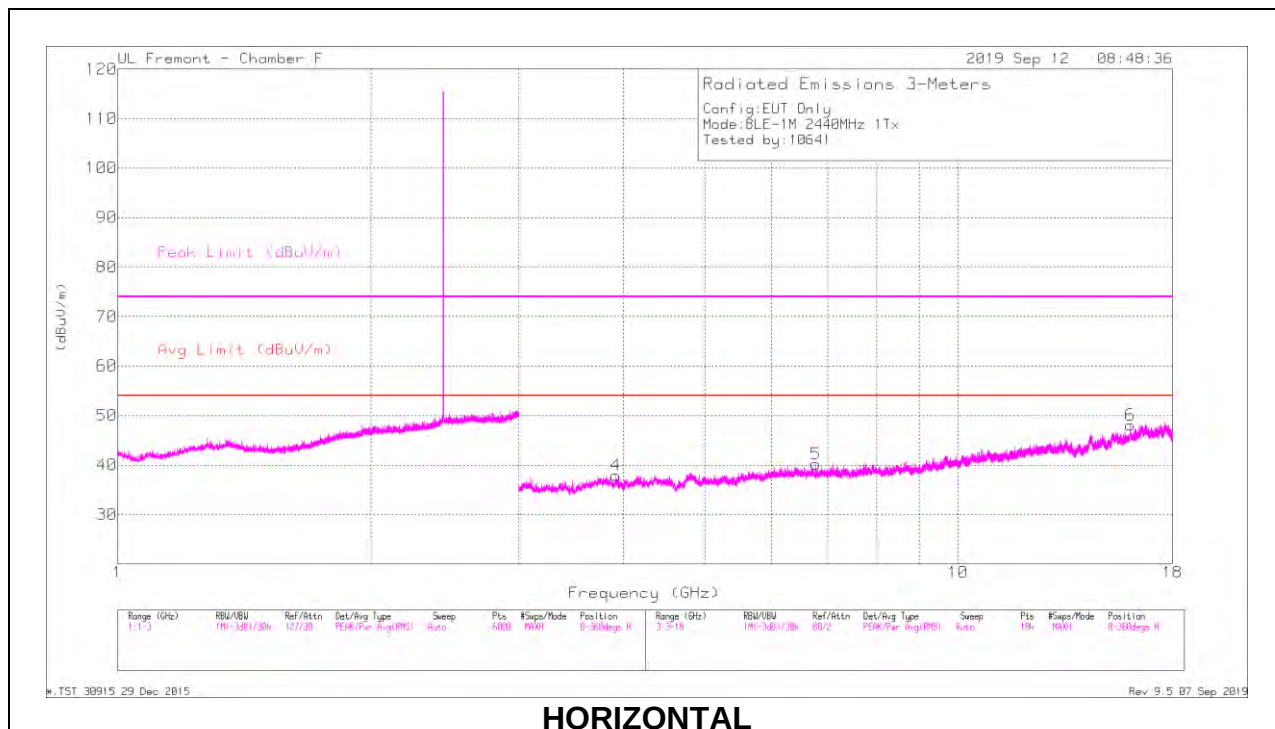
Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
2	* 8.48731	50.06	PK2	35.9	-39.4	46.56	-	-	74	-27.44	93	116	H
	* 8.48666	39.2	MAv1	35.9	-39.4	35.7	54	-18.3	-	-	93	116	H
3	* 17.82276	51.13	PK2	41.3	-38.2	54.23	-	-	74	-19.77	186	136	H
	* 17.82199	40.04	MAv1	41.4	-38.2	43.24	54	-10.76	-	-	186	136	H
1	9.82518	50.64	PK2	36.9	-39.9	47.64	-	-	74	-26.36	167	153	H
4	* 4.37051	55.42	PK2	33.9	-44.1	45.22	-	-	74	-28.78	208	155	V
	* 4.36974	43.93	MAv1	33.9	-44.2	33.63	54	-20.37	-	-	208	155	V
6	* 15.86677	50.24	PK2	40.4	-37.6	53.04	-	-	74	-20.96	218	164	V
	* 15.8686	39.23	MAv1	40.4	-37.6	42.03	54	-11.97	-	-	218	164	V
5	7.87190	51.03	PK2	35.9	-39.9	47.03	-	-	74	-26.97	152	235	V

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

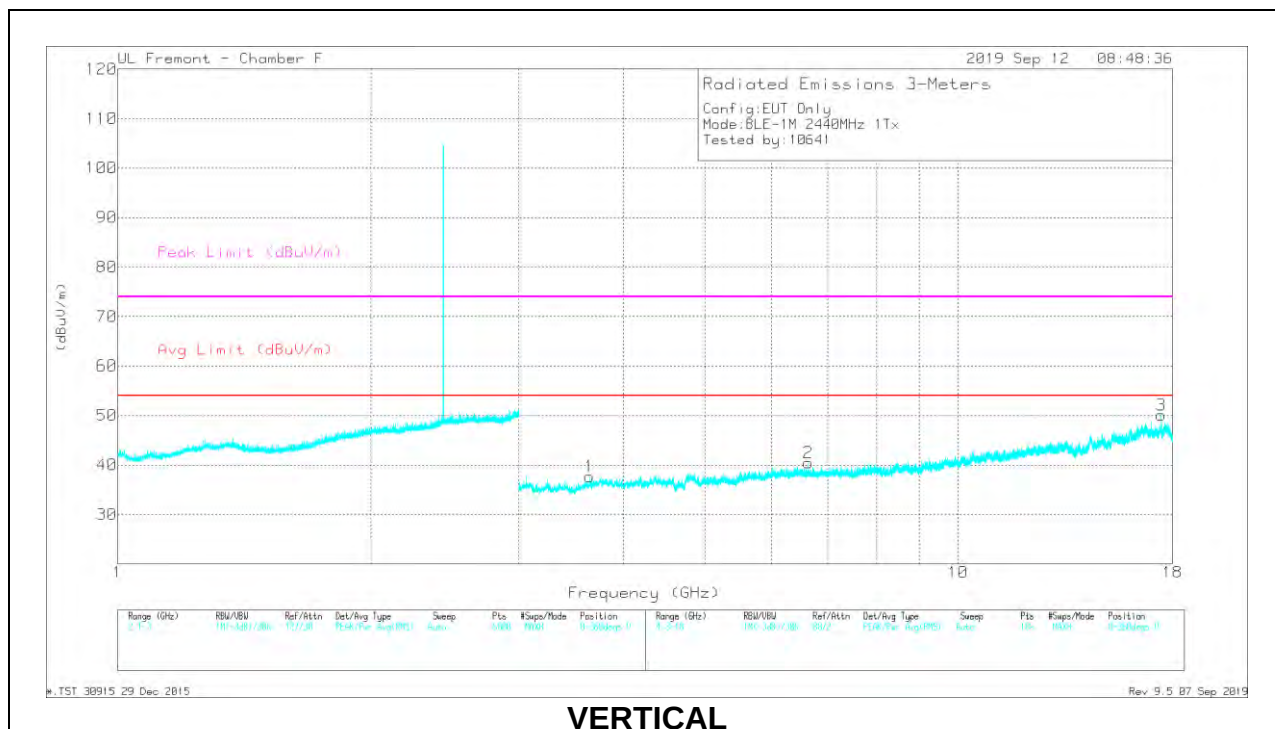
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

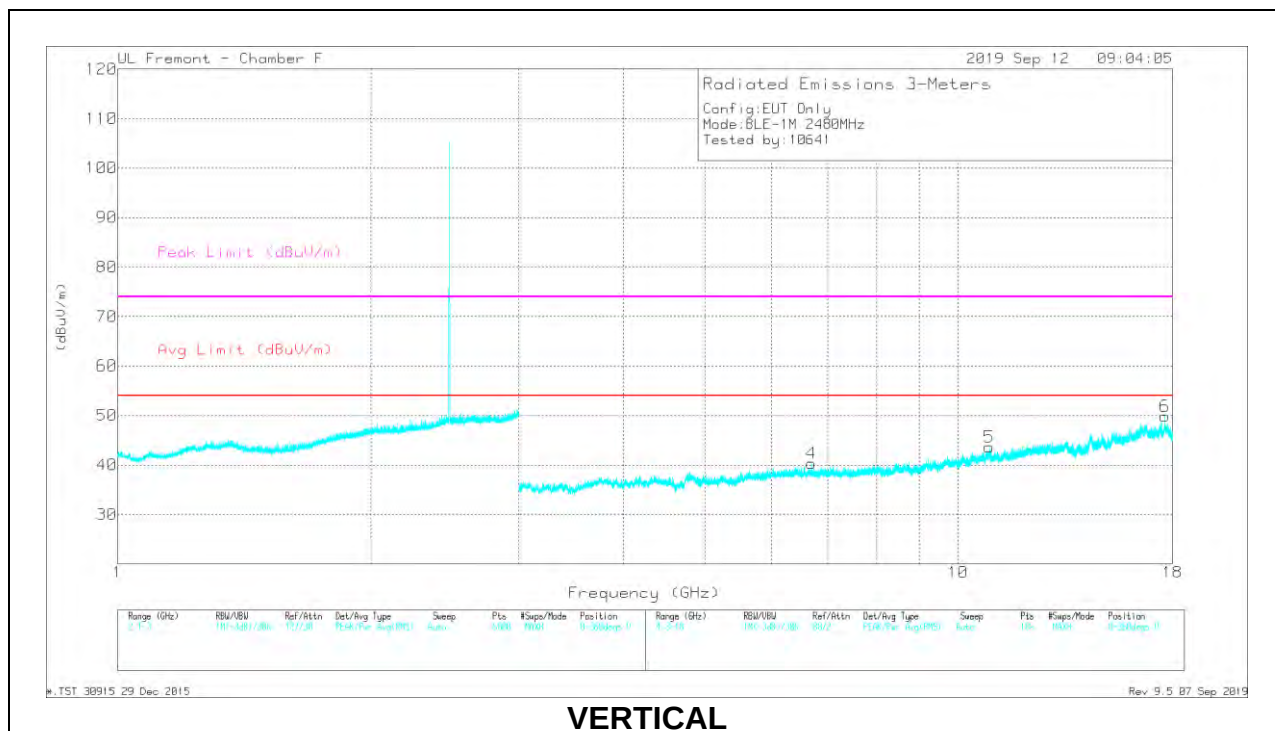
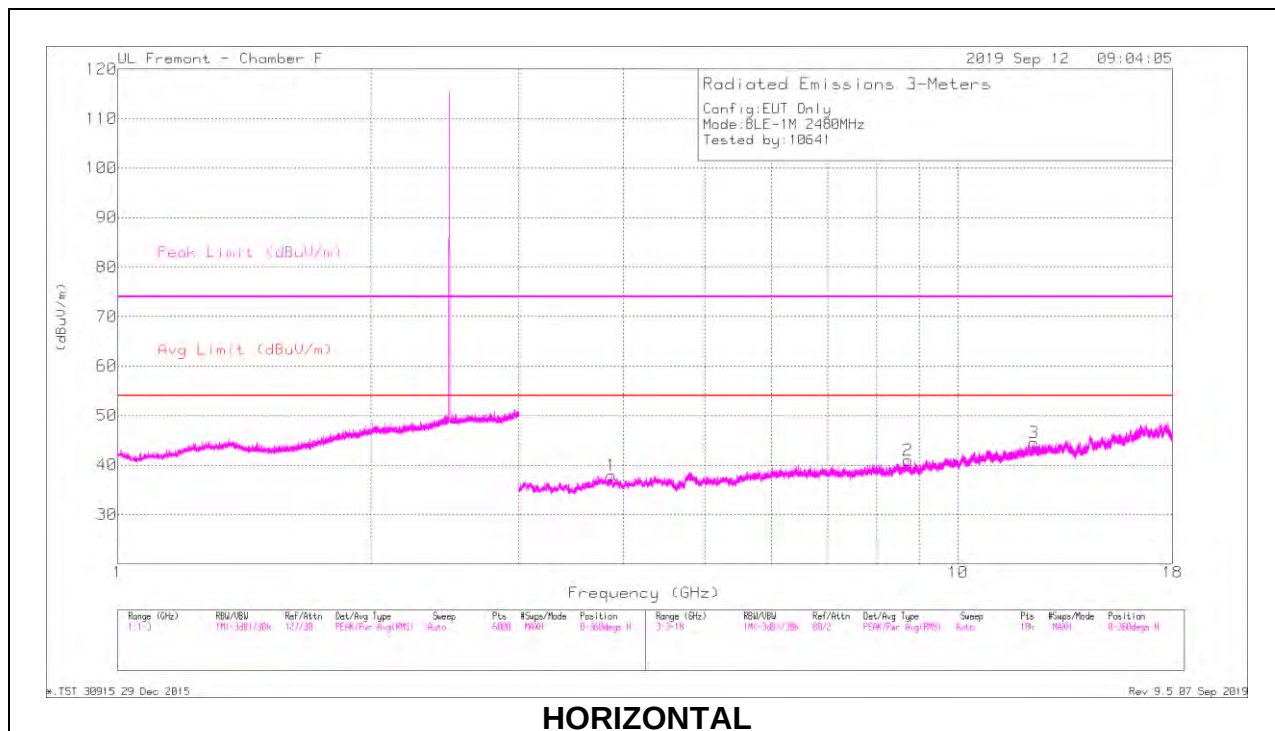
Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
5	6.77217	51.82	PK2	35.6	-41.4	46.02	-	-	74	-27.98	223	247	H
4	* 3.91722	54.03	PK2	33.7	-43.5	44.23	-	-	74	-29.77	196	262	H
	* 3.91747	43.1	MAv1	33.7	-43.5	33.3	54	-20.7	-	-	196	262	H
6	* 16.04374	50.58	PK2	40.8	-37.1	54.28	-	-	74	-19.72	218	247	H
	* 16.0438	39.81	MAv1	40.8	-37.1	43.51	54	-10.49	-	-	218	247	H
3	17.45072	50.49	PK2	41.5	-36.4	55.59	-	-	74	-18.41	226	201	V
2	6.63496	51.07	PK2	35.8	-41	45.87	-	-	74	-28.13	256	213	V
1	* 3.64117	53.49	PK2	33.1	-43.4	43.19	-	-	74	-30.81	185	272	V
	* 3.64174	42.26	MAv1	33.1	-43.4	31.96	54	-22.04	-	-	185	272	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 RESULTS



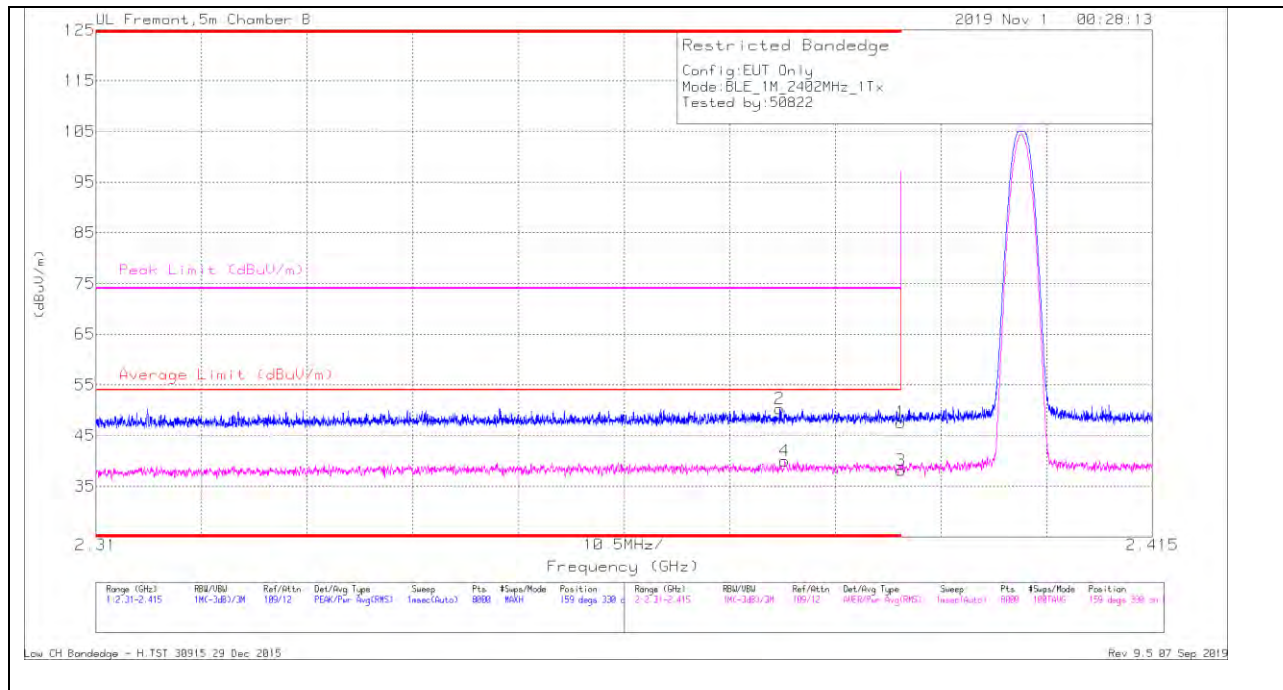
RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
1	* 3.8737	54.23	PK2	33.7	-43.5	44.43	-	-	74	-29.57	297	127	H
	* 3.87179	43.05	MAv1	33.7	-43.6	33.15	54	-20.85	-	-	297	127	H
3	* 12.31369	50.5	PK2	39.1	-38.8	50.8	-	-	74	-23.2	281	141	H
	* 12.31269	39.05	MAv1	39.1	-38.9	39.25	54	-14.75	-	-	281	141	H
2	8.71676	49.59	PK2	36	-39.3	46.29	-	-	74	-27.71	189	188	H
5	* 10.89052	50.73	PK2	38	-38.1	50.63	-	-	74	-23.37	237	168	V
	* 10.89185	38.78	MAv1	38	-38.1	38.68	54	-15.32	-	-	237	168	V
4	6.69015	51	PK2	35.8	-41.2	45.6	-	-	74	-28.4	205	202	V
6	17.62779	50.11	PK2	41.6	-36.1	55.61	-	-	74	-18.39	179	214	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

LAT 3**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019 4893 (dB/m)	Amp/Cb I/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	36.22	Pk	30.3	-18.9	47.62	-	-	74	-26.38	159	330	H
2	* 2.37797	38.93	Pk	30.2	-18.8	50.33	-	-	74	-23.67	159	330	H
3	* 2.39	26.73	RMS	30.3	-18.9	38.13	54	-15.87	-	-	159	330	H
4	* 2.37847	28.54	RMS	30.2	-18.8	39.94	54	-14.06	-	-	159	330	H

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

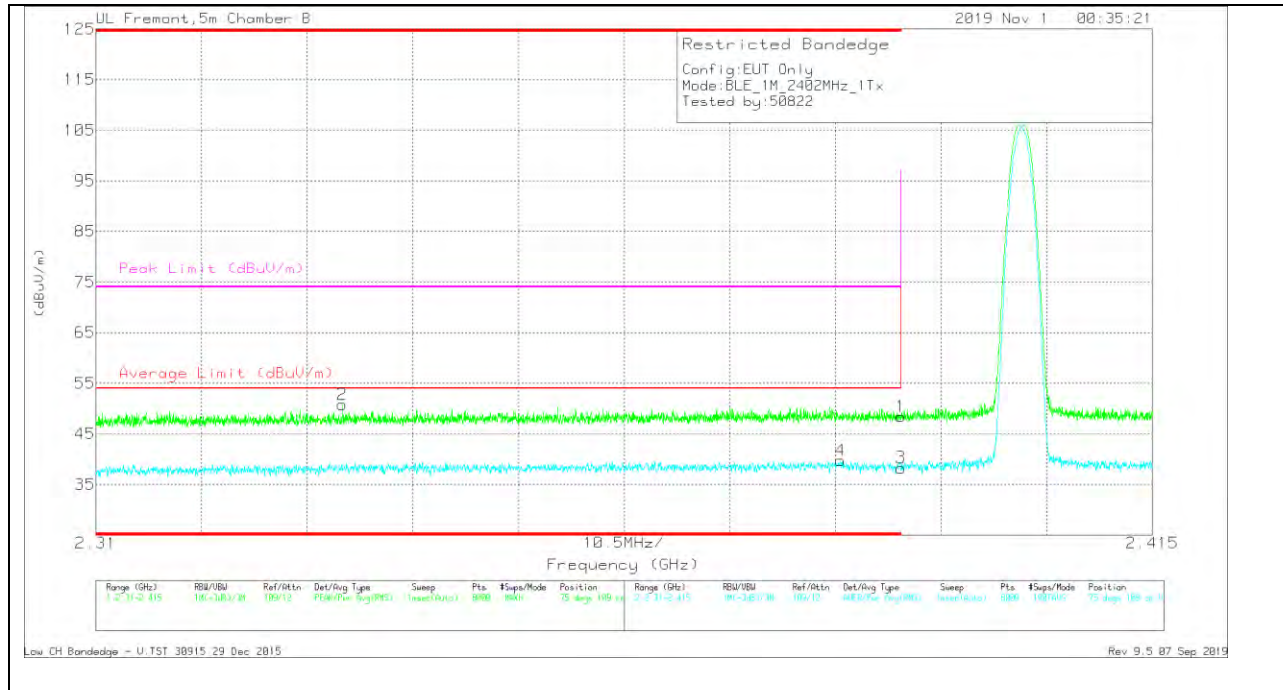
Pk - Peak detector

RMS - RMS detection

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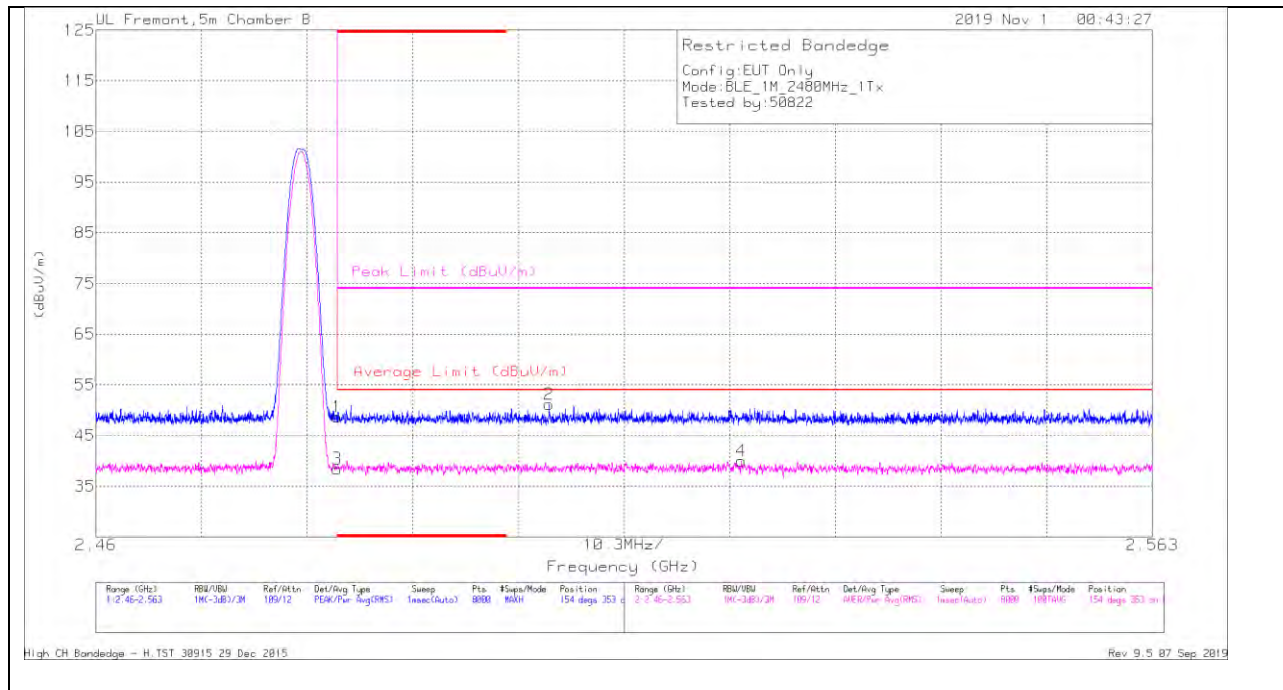
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019 4893 (dB/m)	Amp/Cb I/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	36.98	Pk	30.3	-18.9	48.38	-	-	74	-25.62	75	109	V
2	* 2.33448	39.99	Pk	29.8	-19	50.79	-	-	74	-23.21	75	109	V
3	* 2.39	26.91	RMS	30.3	-18.9	38.31	54	-15.69	-	-	75	109	V
4	* 2.38402	28.49	RMS	30.2	-18.9	39.79	54	-14.21	-	-	75	109	V

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

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BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019 4893 (dB/m)	Amp/Cb/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	* 2.4835	37.36	Pk	30.2	-18.9	48.66	-	-	74	-25.34	154	353	H
3	* 2.4835	27.13	RMS	30.2	-18.9	38.43	54	-15.57	-	-	154	353	H
2	2.50418	40.08	Pk	30.1	-19	51.18	-	-	74	-22.82	154	353	H
4	2.52293	28.78	RMS	30.1	-18.9	39.98	54	-14.02	-	-	154	353	H

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

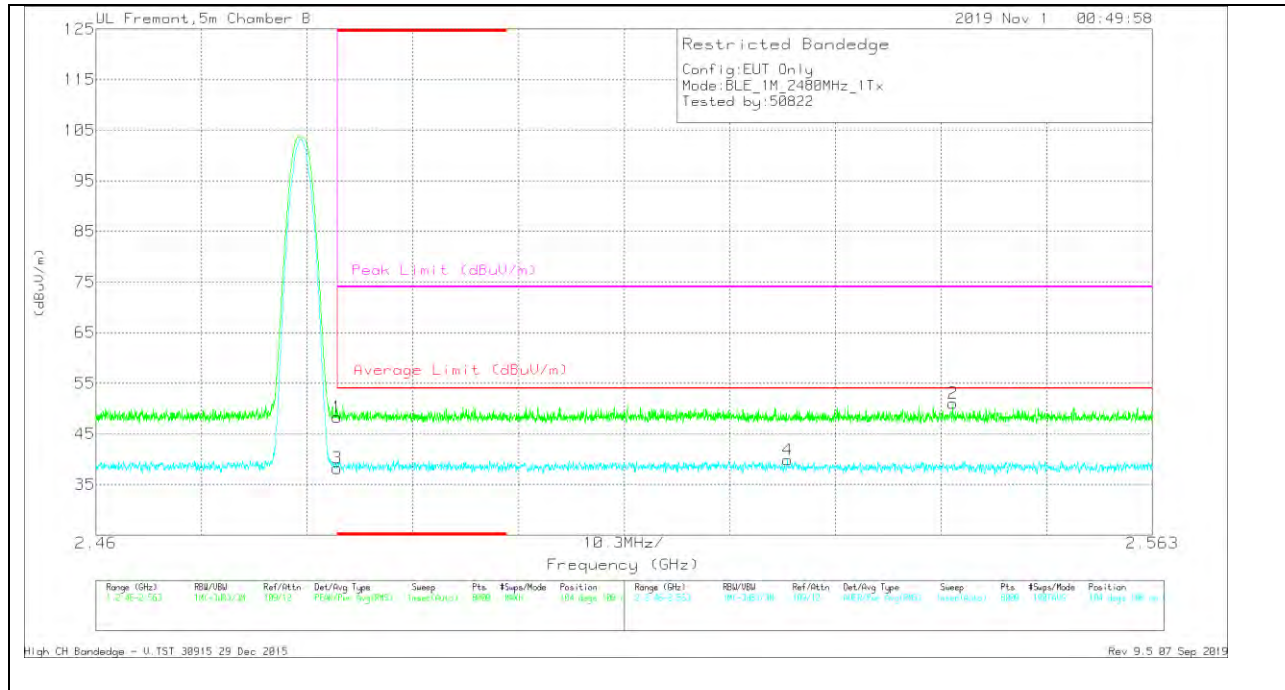
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF PRE019 4893 (dB/m)	Amp/Cb I/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	* 2.4835	37.05	Pk	30.2	-18.9	48.35	-	-	74	-25.65	104	108	V
3	* 2.4835	26.89	RMS	30.2	-18.9	38.19	54	-15.81	-	-	104	108	V
4	2.52742	28.8	RMS	30.1	-19	39.9	54	-14.1	-	-	104	108	V
2	2.54356	39.82	Pk	30.1	-18.9	51.02	-	-	74	-22.98	104	108	V

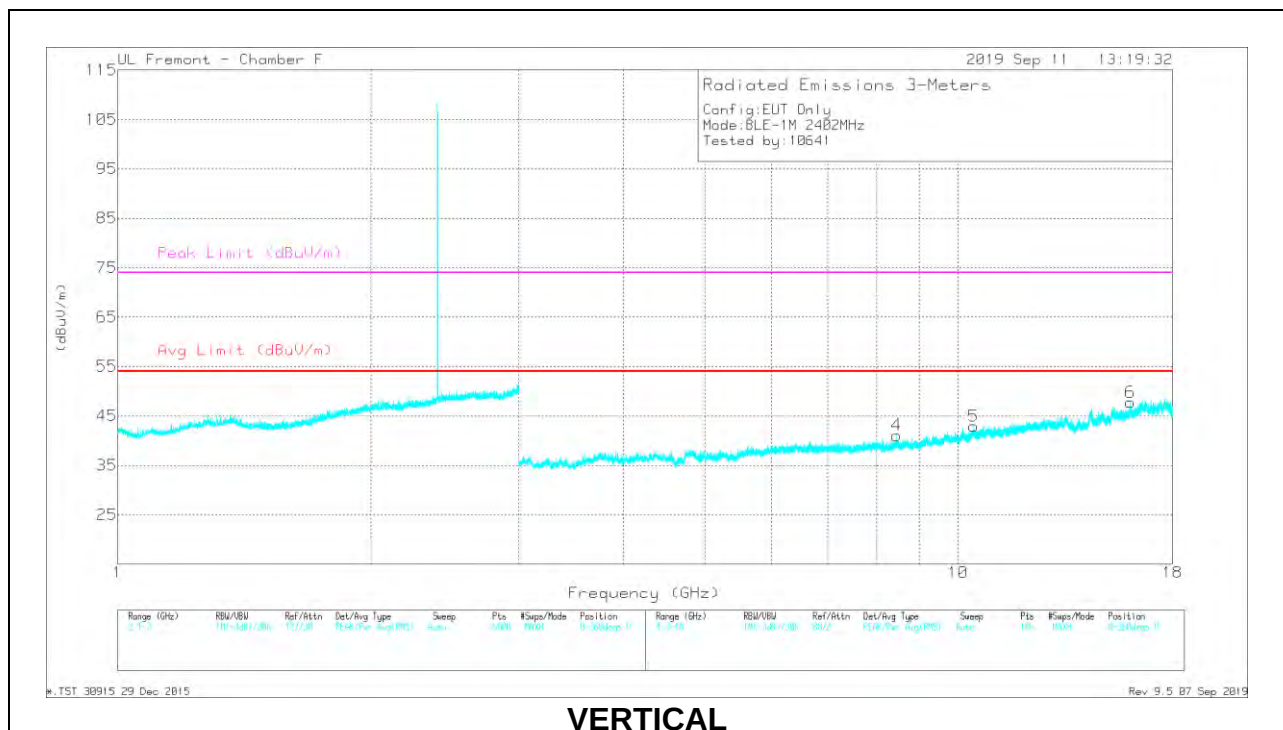
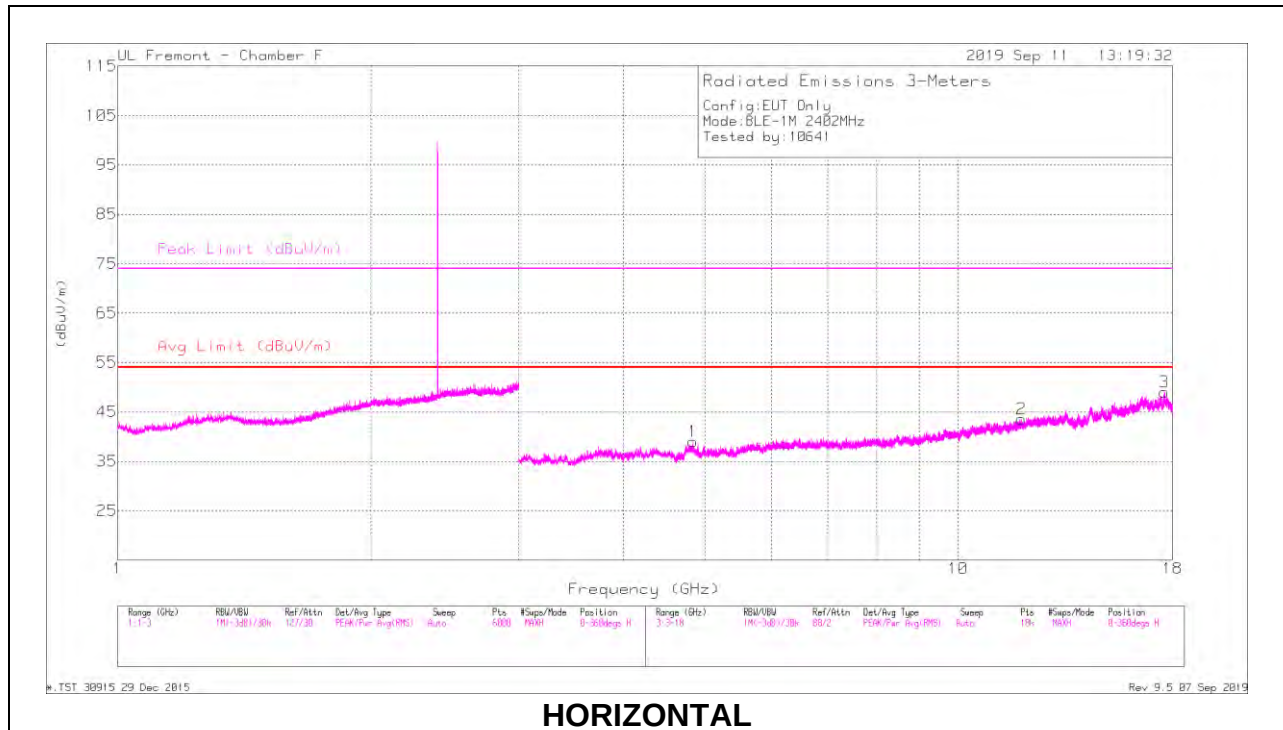
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH Bandedge - V.TST 30915 29 Dec 2015

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HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

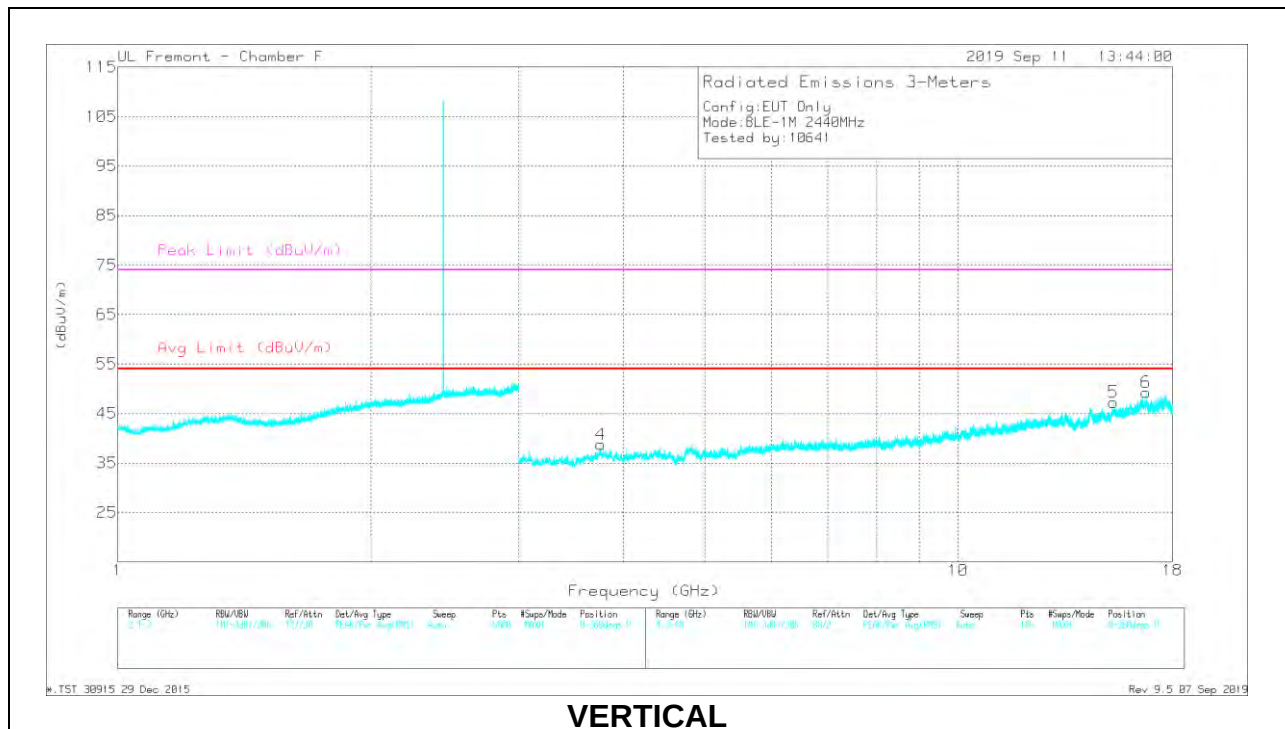
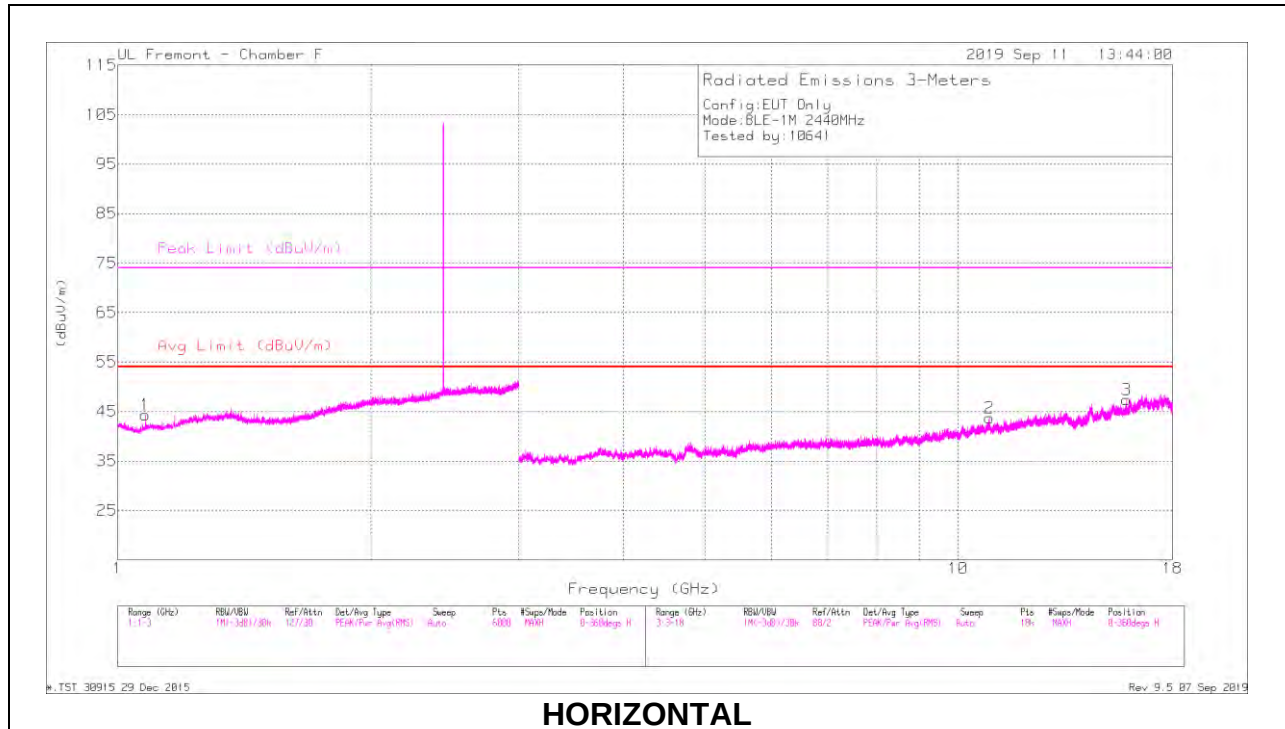
Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
1	* 4.83969	55.25	PK2	34.2	-43.8	45.65	-	-	74	-28.35	286	116	H
	* 4.84037	43.14	MAv1	34.2	-43.8	33.54	54	-20.46	-	-	286	116	H
2	* 11.90178	50.18	PK2	38.7	-38.6	50.28	-	-	74	-23.72	232	128	H
	* 11.90211	38.92	MAv1	38.7	-38.7	38.92	54	-15.08	-	-	232	128	H
3	17.61204	50.42	PK2	41.6	-36.6	55.42	-	-	-	-	205	227	H
4	* 8.45776	50.38	PK2	36	-39.2	47.18	-	-	74	-26.82	181	161	V
	* 8.45817	39.41	MAv1	36	-39.2	36.21	54	-17.79	-	-	181	161	V
6	* 16.0441	50.62	PK2	40.8	-37.1	54.32	-	-	74	-19.68	215	186	V
	* 16.04507	39.75	MAv1	40.8	-37.2	43.35	54	-10.65	-	-	215	186	V
5	10.44705	50.44	PK2	37.6	-38.8	49.24	-	-	74	-24.76	224	202	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 RESULTS



RADIATED EMISSIONS

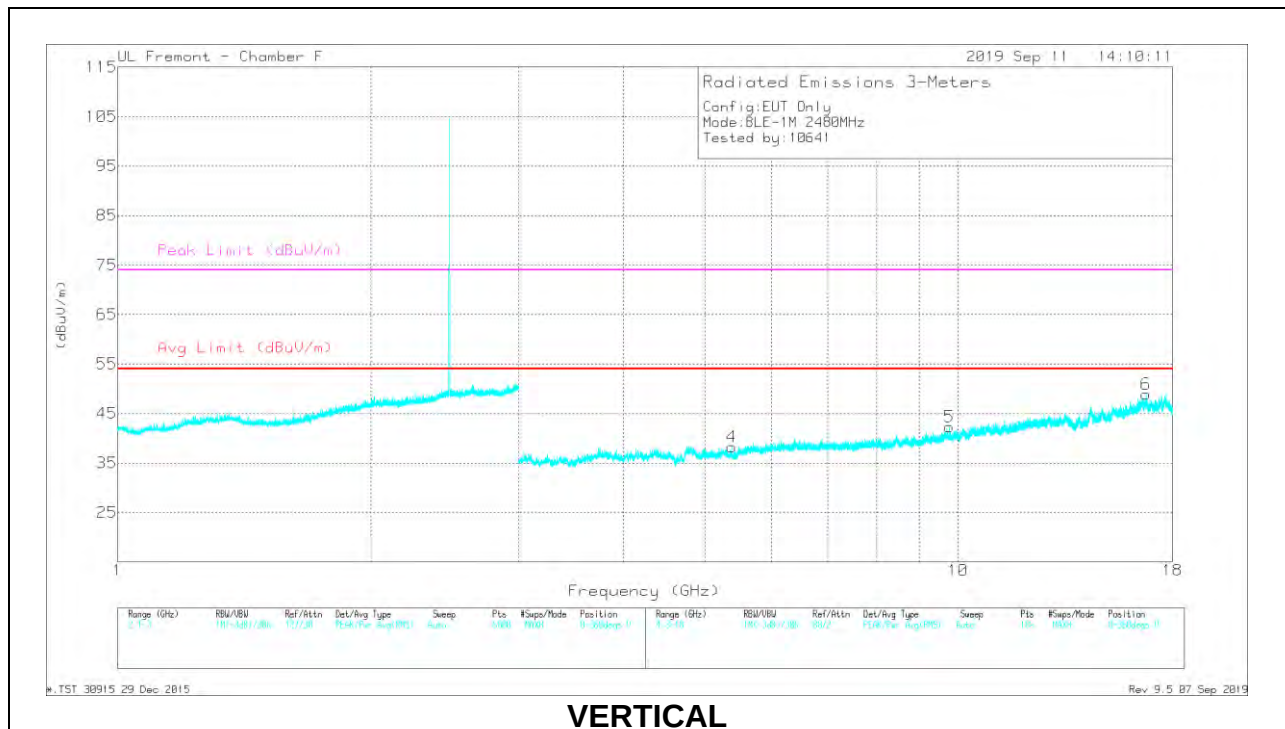
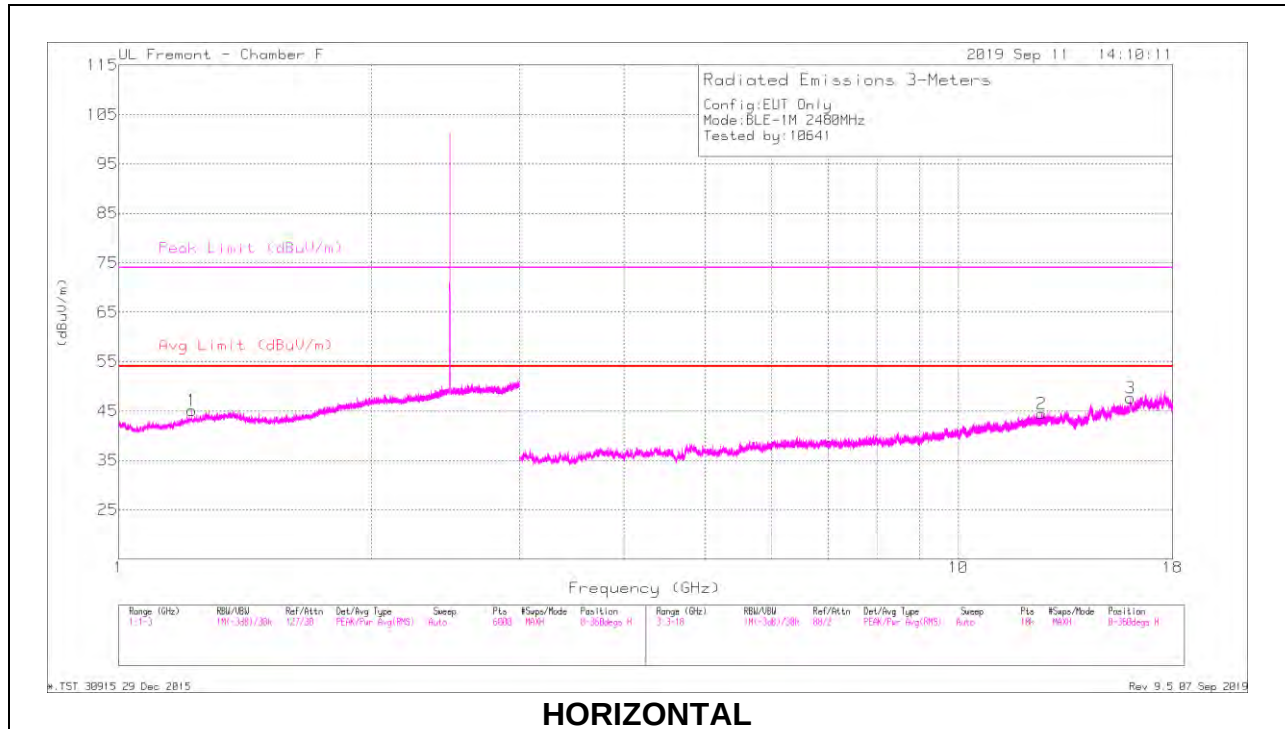
Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
1	* 1.08012	59.03	PK2	27.3	-36.8	49.53	-	-	74	-24.47	318	131	H
	* 1.08046	47.56	MAv1	27.3	-36.8	38.06	54	-15.94	-	-	318	131	H
2	* 10.89327	49.98	PK2	38	-38	49.98	-	-	74	-24.02	287	150	H
	* 10.89128	38.9	MAv1	38	-38	38.9	54	-15.1	-	-	287	150	H
3	* 15.87242	50.75	PK2	40.4	-37.7	53.45	-	-	74	-20.55	232	164	H
	* 15.87168	39.29	MAv1	40.4	-37.7	41.99	54	-12.01	-	-	232	164	H
4	* 3.7603	54.29	PK2	33.4	-43.6	44.09	-	-	74	-29.91	158	191	V
	* 3.7606	43.15	MAv1	33.4	-43.6	32.95	54	-21.05	-	-	158	191	V
5	15.30872	50.77	PK2	40.2	-37.7	53.27	-	-	74	-20.73	192	224	V
6	16.75055	50.31	PK2	41.9	-37.1	55.11	-	-	74	-18.89	177	243	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 RESULTS



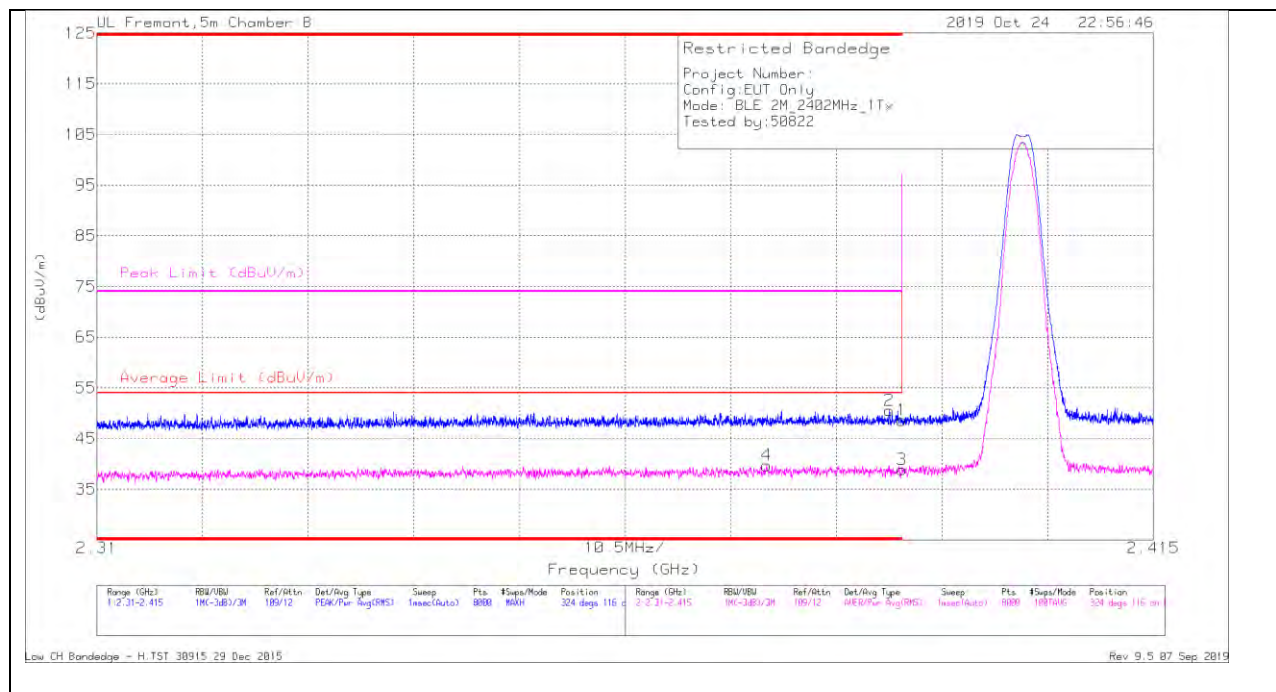
RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
1	* 1.22074	59.44	PK2	28.5	-36.8	51.14	-	-	74	-22.86	49	114	H
	* 1.22148	47.66	MAv1	28.5	-36.7	39.46	54	-14.54	-	-	49	114	H
2	* 12.5618	50.51	PK2	39.2	-39.1	50.61	-	-	74	-23.39	83	139	H
	* 12.56169	39.55	MAv1	39.2	-39.1	39.65	54	-14.35	-	-	83	139	H
3	* 16.04229	52.89	PK2	40.8	-37.1	56.59	-	-	74	-17.41	200	147	H
	* 16.04252	39.66	MAv1	40.8	-37.1	43.36	54	-10.64	-	-	200	147	H
4	* 5.38023	52.6	PK2	34.6	-42.7	44.5	-	-	74	-29.5	227	169	V
	* 5.37669	41.28	MAv1	34.5	-42.7	33.08	54	-20.92	-	-	227	169	V
5	9.75818	50.76	PK2	36.9	-39.9	47.76	-	-	74	-26.24	213	186	V
6	16.74725	50.05	PK2	41.9	-37.1	54.85	-	-	74	-19.15	204	200	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.2. HIGH POWER BLE (2Mbps)**UAT 1****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/C bl/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	37.22	Pk	30.3	-18.9	48.62	-	-	74	-25.38	324	116	H
2	* 2.38878	39.15	Pk	30.3	-18.9	50.55	-	-	74	-23.45	324	116	H
3	* 2.39	27.47	RMS	30.3	-18.9	38.87	54	-15.13	-	-	324	116	H
4	* 2.37657	28.28	RMS	30.2	-18.8	39.68	54	-14.32	-	-	324	116	H

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

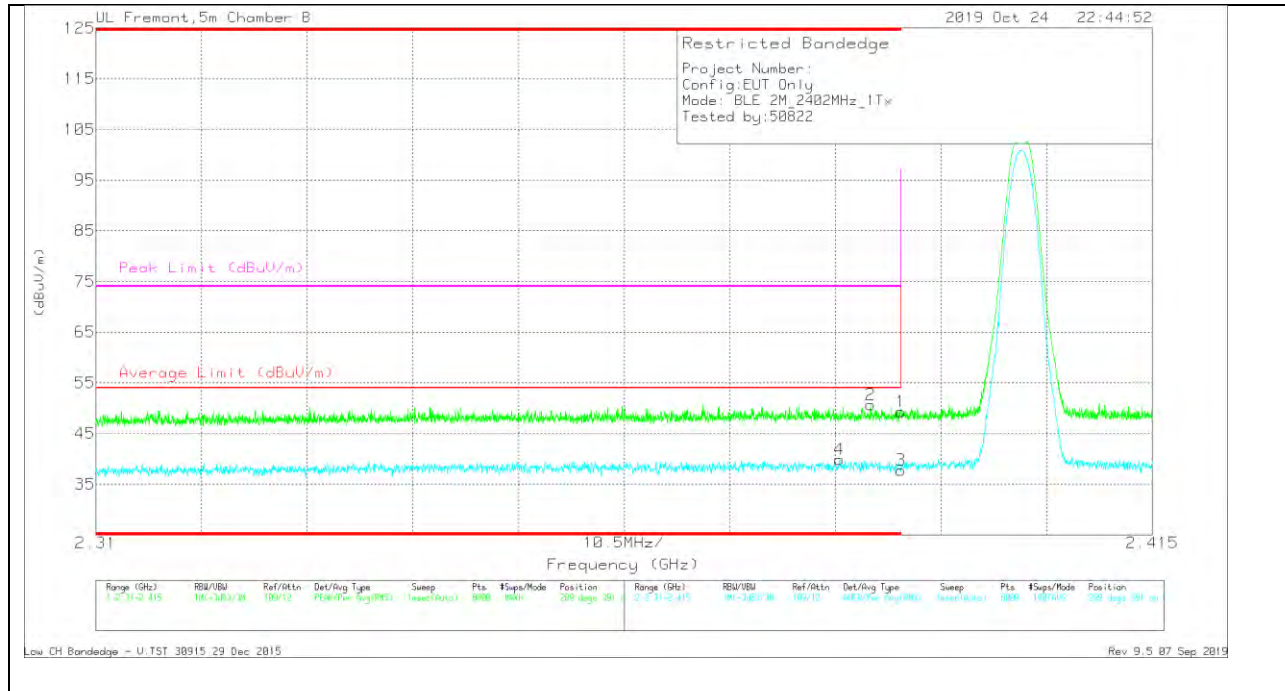
Pk - Peak detector

RMS - RMS detection

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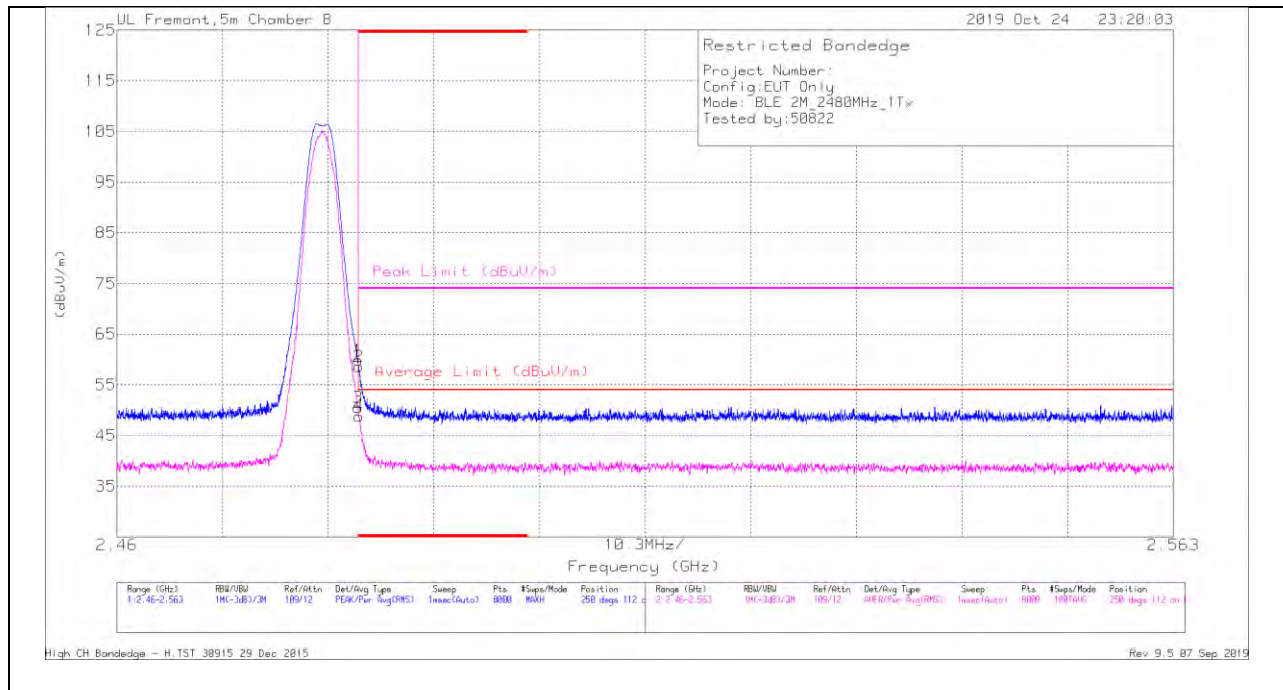
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cb I/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	37.88	Pk	30.3	-18.9	49.28	-	-	74	-24.72	289	391	V
2	* 2.38699	39.32	Pk	30.2	-18.9	50.62	-	-	74	-23.38	289	391	V
3	* 2.39	26.36	RMS	30.3	-18.9	37.76	54	-16.24	-	-	289	391	V
4	* 2.38389	28.61	RMS	30.2	-18.9	39.91	54	-14.09	-	-	289	391	V

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

Low CH Bandedge - V.TST 30915 29 Dec 2015
Rev 9.5 07 Sep 2019

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cb I/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	* 2.4835	48.6	Pk	30.2	-18.9	59.9	-	-	74	-14.1	250	112	H
2	* 2.48356	47.26	Pk	30.2	-18.9	58.56	-	-	74	-15.44	250	112	H
3	* 2.4835	39.2	RMS	30.2	-18.9	50.5	54	-3.5	-	-	250	112	H
4	* 2.48359	37.56	RMS	30.2	-18.9	48.86	54	-5.14	-	-	250	112	H

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

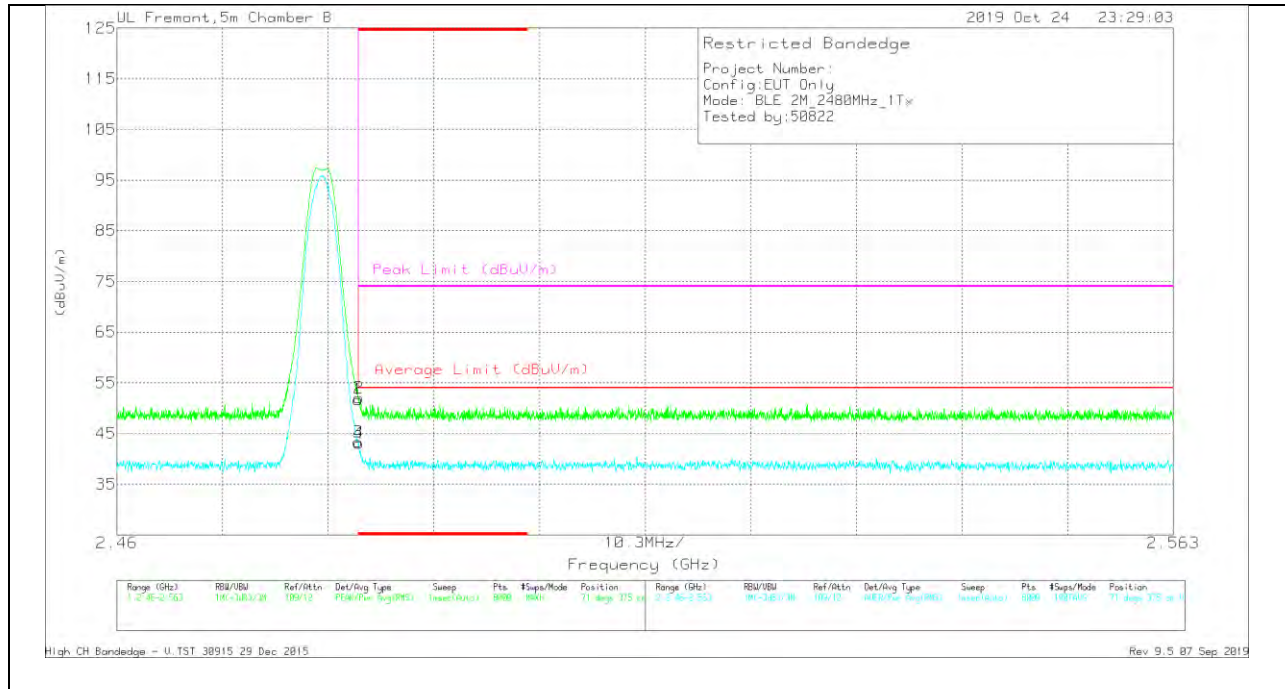
PK - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 29 Dec 2015

Rev 9.5 07 Sep 2019

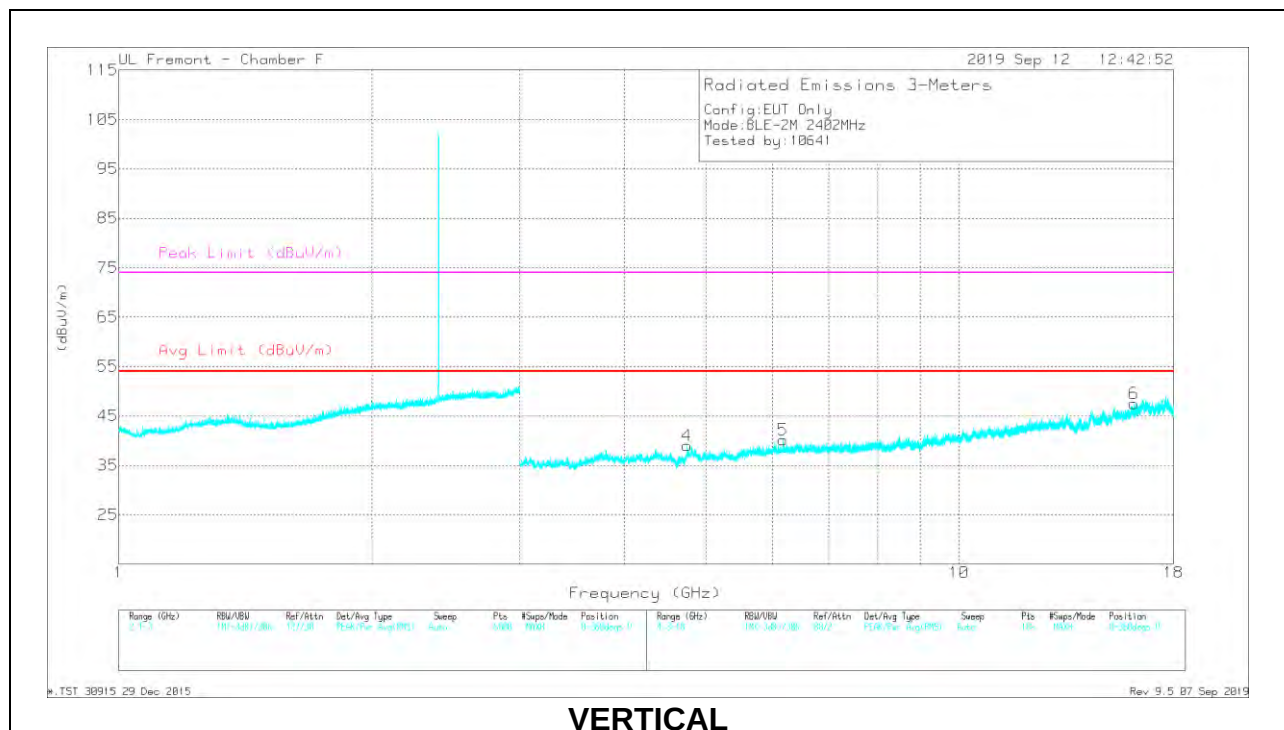
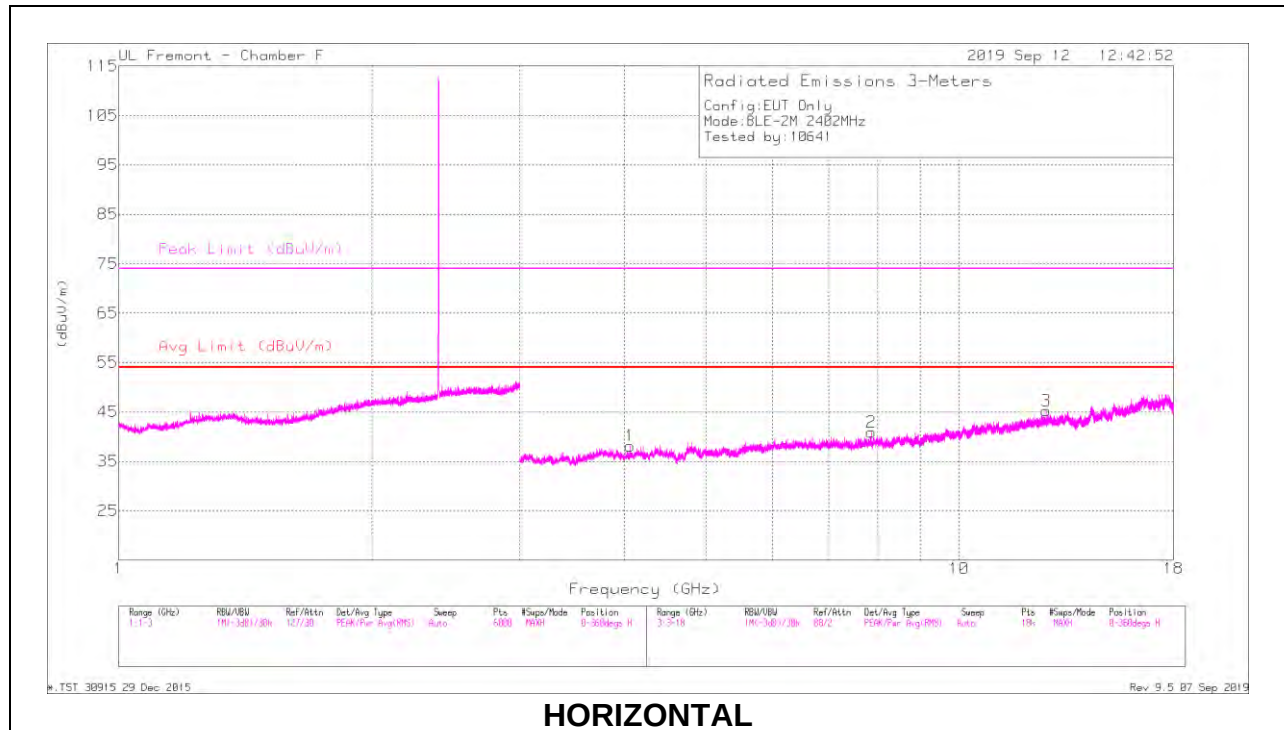
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cb I/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	* 2.4835	40.42	Pk	30.2	-18.9	51.72	-	-	74	-22.28	71	375	V
2	* 2.4836	40.78	Pk	30.2	-18.9	52.08	-	-	74	-21.92	71	375	V
3	* 2.4835	32.09	RMS	30.2	-18.9	43.39	54	-10.61	-	-	71	375	V
4	* 2.48358	31.74	RMS	30.2	-18.9	43.04	54	-10.96	-	-	71	375	V

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

High CH Bandedge - V.TST 30915 29 Dec 2015
Rev 9.5 07 Sep 2019

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

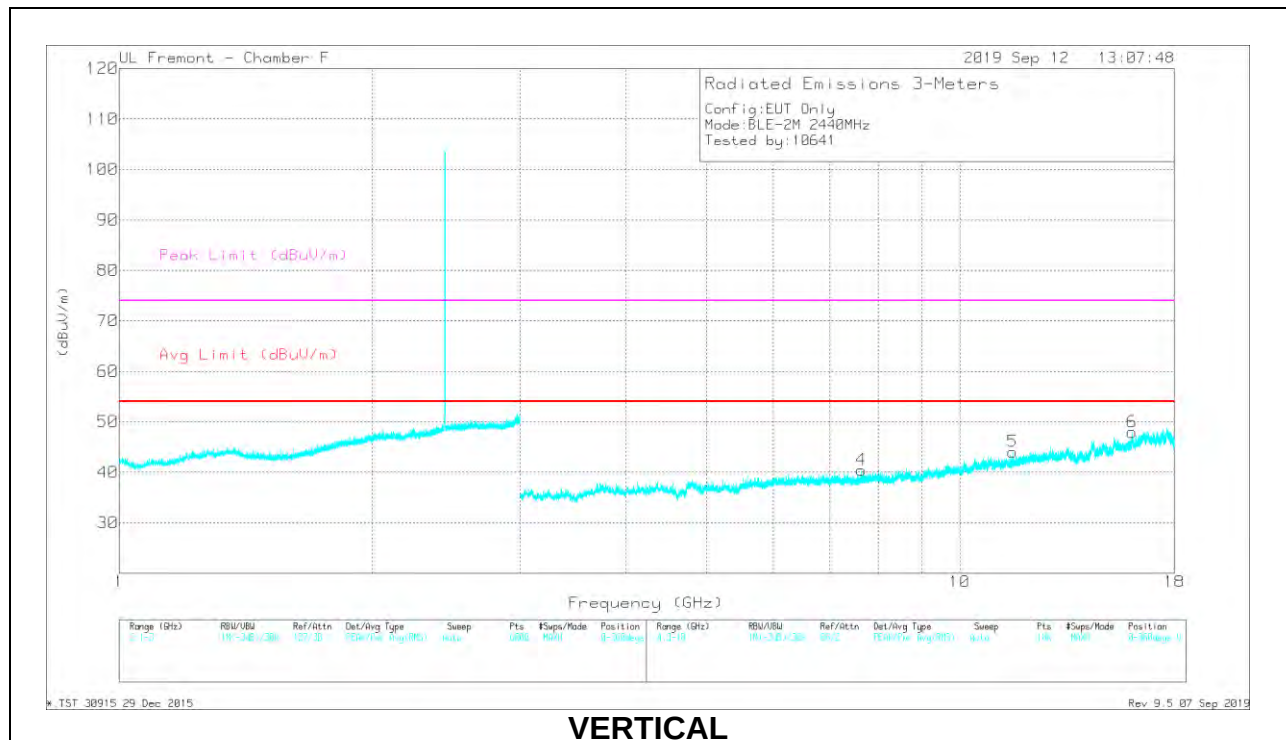
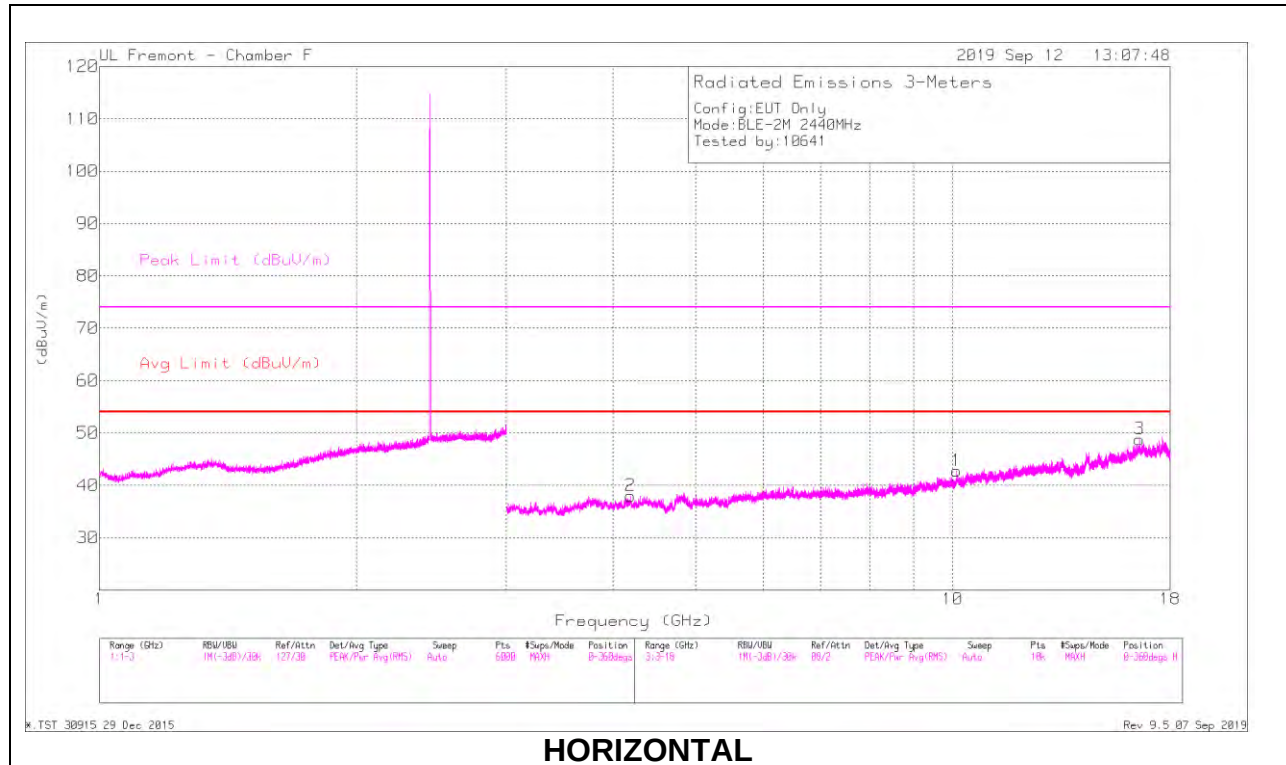
Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
1	* 4.05986	53.45	PK2	33.8	-43.4	43.85	-	-	74	-30.15	234	124	H
	* 4.05815	41.76	MAv1	33.8	-43.3	32.26	54	-21.74	-	-	234	124	H
3	* 12.70049	50.46	PK2	39.2	-38.9	50.76	-	-	74	-23.24	186	140	H
	* 12.70068	39.16	MAv1	39.2	-39	39.36	54	-14.64	-	-	186	140	H
2	7.86496	50.79	PK2	35.9	-39.7	46.99	-	-	-	-	207	154	H
4	* 4.74649	53.98	PK2	34.1	-44.2	43.88	-	-	74	-30.12	220	124	V
	* 4.74686	43.19	MAv1	34.1	-44.2	33.09	54	-20.91	-	-	220	124	V
6	* 16.15861	51.31	PK2	40.9	-38.4	53.81	-	-	74	-20.19	185	137	V
	* 16.15832	39.79	MAv1	40.9	-38.4	42.29	54	-11.71	-	-	185	137	V
5	6.17039	51.15	PK2	35.8	-41.1	45.85	-	-	74	-28.15	179	167	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 RESULTS



RADIATED EMISSIONS

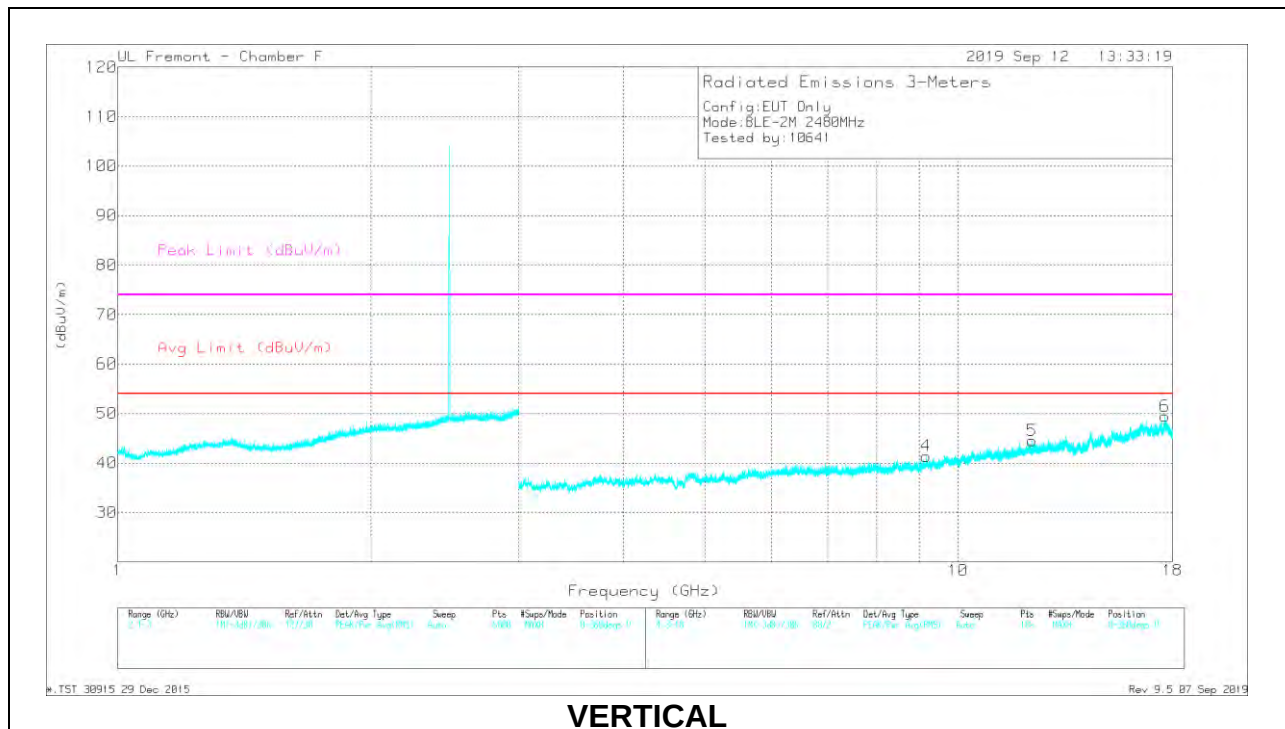
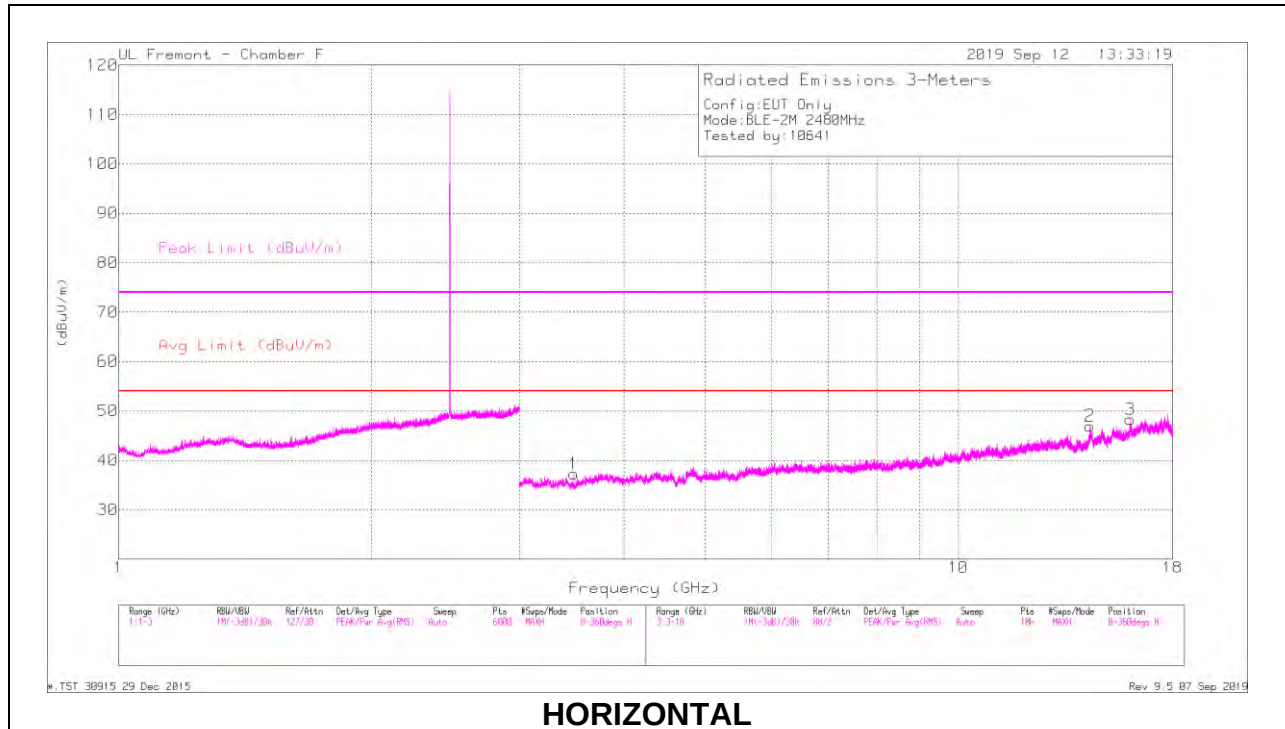
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	10.11078	51.07	PK2	37.1	-39.2	48.97	-	-	74	-25.03	91	123	H
3	16.57254	50.46	PK2	41.6	-37.3	54.76	-	-	74	-19.24	130	137	H
2	* 4.1939	54.47	PK2	33.6	-44	44.07	-	-	74	-29.93	150	400	H
	* 4.19609	43.51	MAv1	33.6	-44	33.11	54	-20.89	-	-	150	400	H
4	* 7.63144	50.67	PK2	35.7	-40.2	46.17	-	-	74	-27.83	120	365	V
	* 7.63287	39.53	MAv1	35.7	-40.2	35.03	54	-18.97	-	-	120	365	V
5	* 11.55485	50.45	PK2	38.2	-38.7	49.95	-	-	74	-24.05	164	310	V
	* 11.55706	39.13	MAv1	38.2	-38.7	38.63	54	-15.37	-	-	164	310	V
6	* 16.03943	50.35	PK2	40.8	-37.1	54.05	-	-	74	-19.95	183	290	V
	* 16.03992	39.67	MAv1	40.8	-37.1	43.37	54	-10.63	-	-	183	290	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 RESULTS



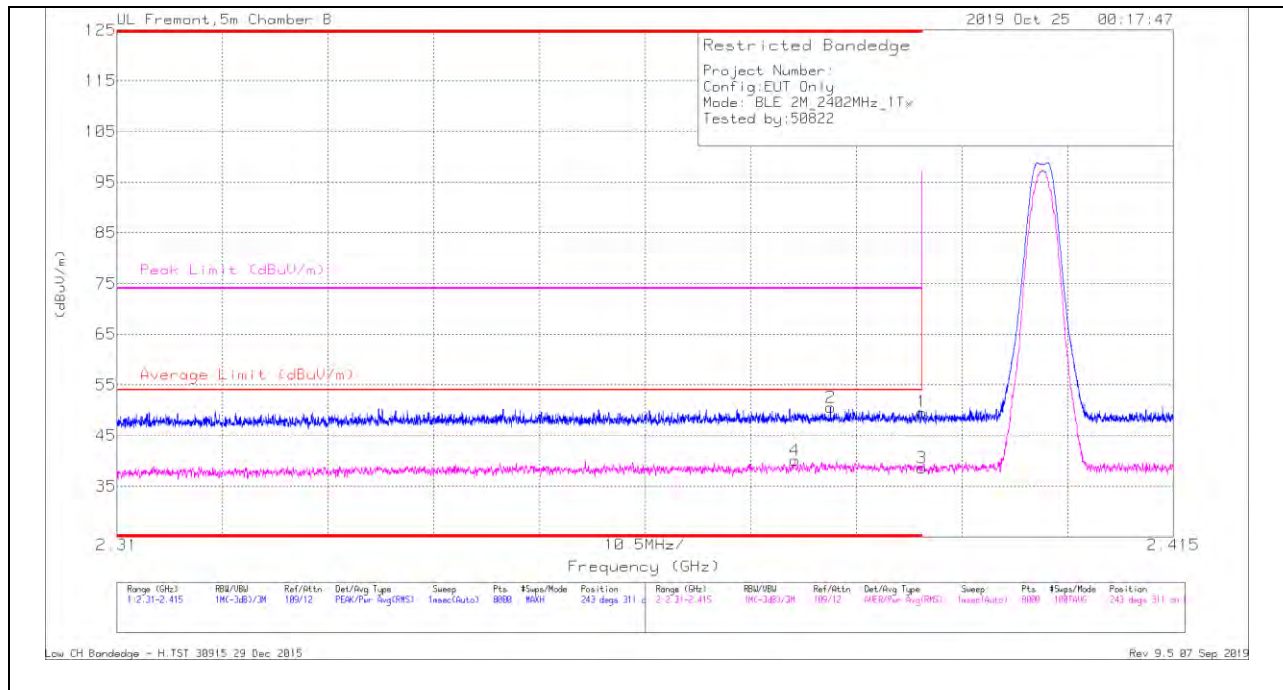
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filt/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	3.48191	53.62	PK2	32.8	-43.5	42.92	-	-	74	-31.08	328	121	H
2	14.35088	50.53	PK2	39.1	-36.9	52.73	-	-	74	-21.27	308	129	H
3	* 16.02945	50.39	PK2	40.8	-37.2	53.99	-	-	74	-20.01	291	124	H
	* 16.02996	39.48	MAv1	40.8	-37.2	43.08	54	-10.92	-	-	291	124	H
6	17.62868	50.41	PK2	41.5	-36.1	55.81	-	-	74	-18.19	261	149	V
4	* 9.16185	50.87	PK2	36.3	-39.6	47.57	-	-	74	-26.43	267	134	V
	* 9.16375	39.59	MAv1	36.3	-39.6	36.29	54	-17.71	-	-	267	134	V
5	* 12.25184	50.45	PK2	39.2	-39.2	50.45	-	-	74	-23.55	238	166	V
	* 12.25329	39.09	MAv1	39.2	-39.2	39.09	54	-14.91	-	-	238	166	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

LAT 3**BANDEGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/C b/Filt/ Pad (dB)	Correct ed Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.21	Pk	30.3	-18.9	49.61	-	-	74	-24.39	243	311	H
2	* 2.38093	39.18	Pk	30.2	-18.8	50.58	-	-	74	-23.42	243	311	H
3	* 2.39	27.27	RMS	30.3	-18.9	38.67	54	-15.33	-	-	243	311	H
4	* 2.37738	28.69	RMS	30.2	-18.8	40.09	54	-13.91	-	-	243	311	H

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

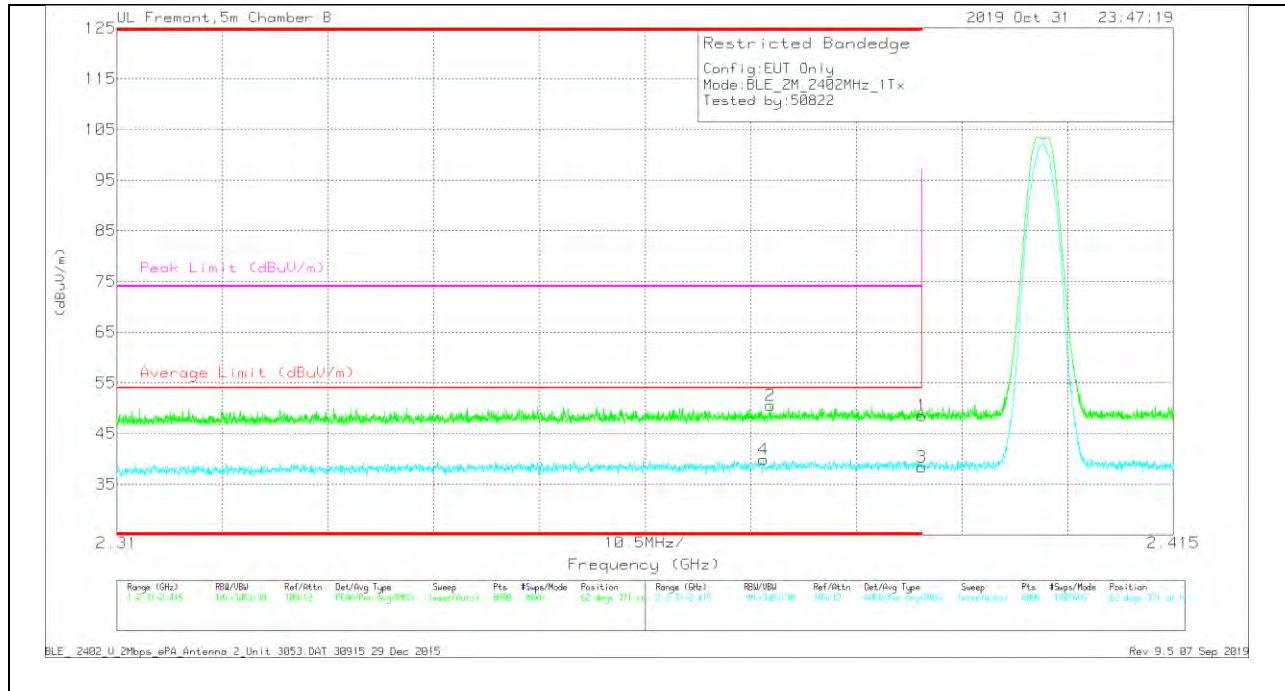
Pk - Peak detector

RMS - RMS detection

Low CH Bandedge - H.TST 30915 29 Dec 2015

Rev 9.5 07 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cb I/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	37.17	Pk	30.3	-18.9	48.57	-	-	74	-25.43	62	371	V
2	* 2.37498	39.29	Pk	30.2	-18.9	50.59	-	-	74	-23.41	62	371	V
3	* 2.39	27.01	RMS	30.3	-18.9	38.41	54	-15.59	-	-	62	371	V
4	* 2.37426	28.57	RMS	30.2	-18.9	39.87	54	-14.13	-	-	62	371	V

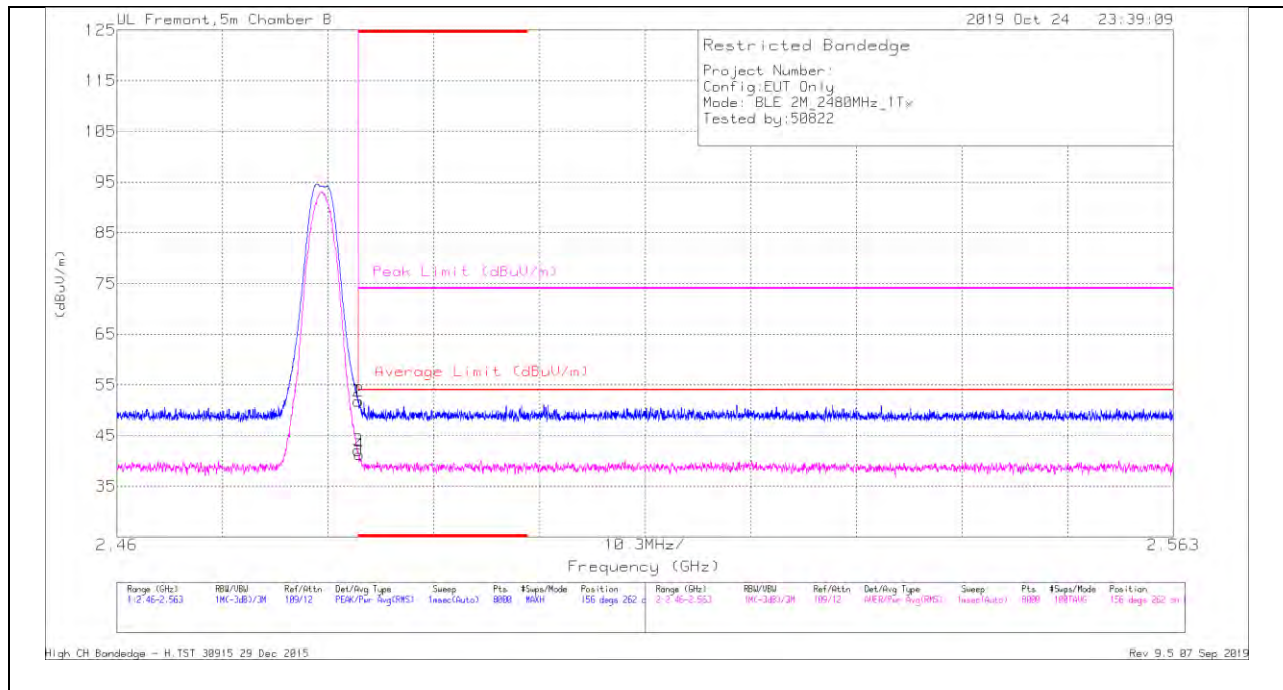
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BLE_2402_V_2Mbps_ePA_UAT 1_Unit 3053.DAT 30915 29 Dec 2015

Rev 9.5 07 Sep 2019

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cb I/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	* 2.4835	40.44	Pk	30.2	-18.9	51.74	-	-	74	-22.26	156	262	H
2	* 2.48355	40.5	Pk	30.2	-18.9	51.8	-	-	74	-22.2	156	262	H
3	* 2.4835	30.74	RMS	30.2	-18.9	42.04	54	-11.96	-	-	156	262	H
4	* 2.48366	29.89	RMS	30.2	-18.9	41.19	54	-12.81	-	-	156	262	H

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

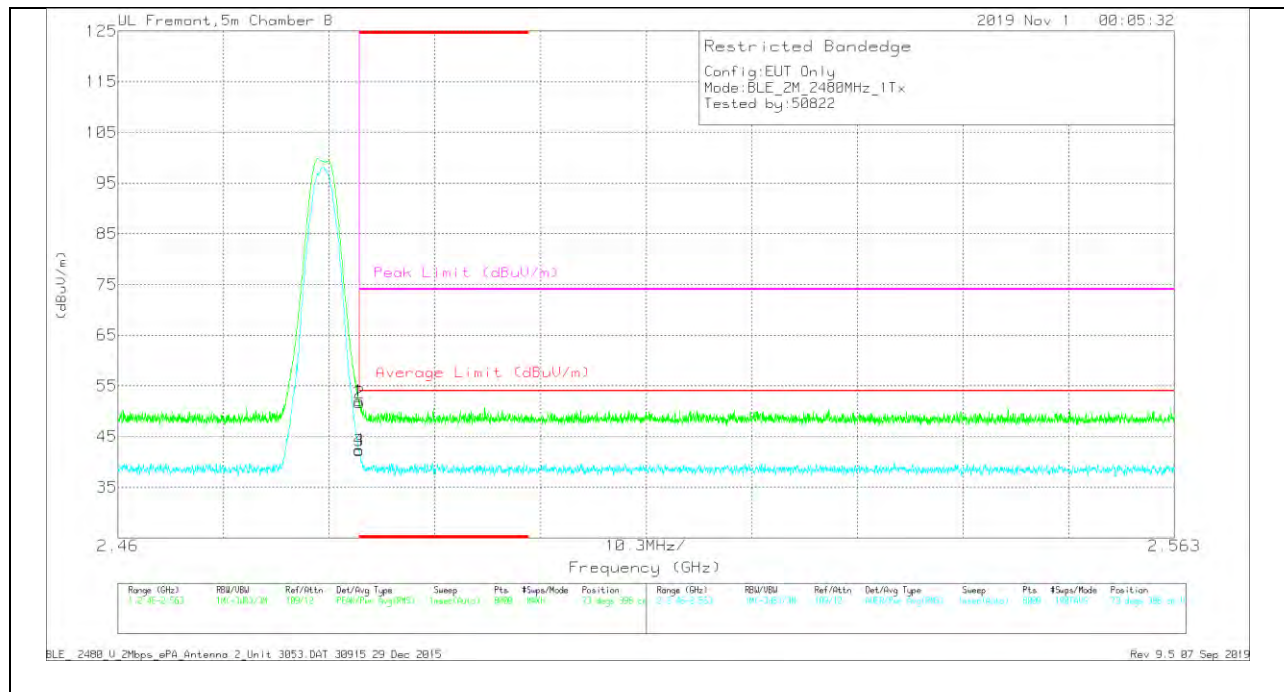
Pk - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 29 Dec 2015

Rev 9.5 07 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cb I/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	* 2.4835	40.72	PK	30.2	-18.9	52.02	-	-	74	-21.98	73	396	V
2	* 2.48355	40.37	PK	30.2	-18.9	51.67	-	-	74	-22.33	73	396	V
3	* 2.4835	30.87	RMS	30.2	-18.9	42.17	54	-11.83	-	-	73	396	V
4	* 2.48354	31.01	RMS	30.2	-18.9	42.31	54	-11.69	-	-	73	396	V

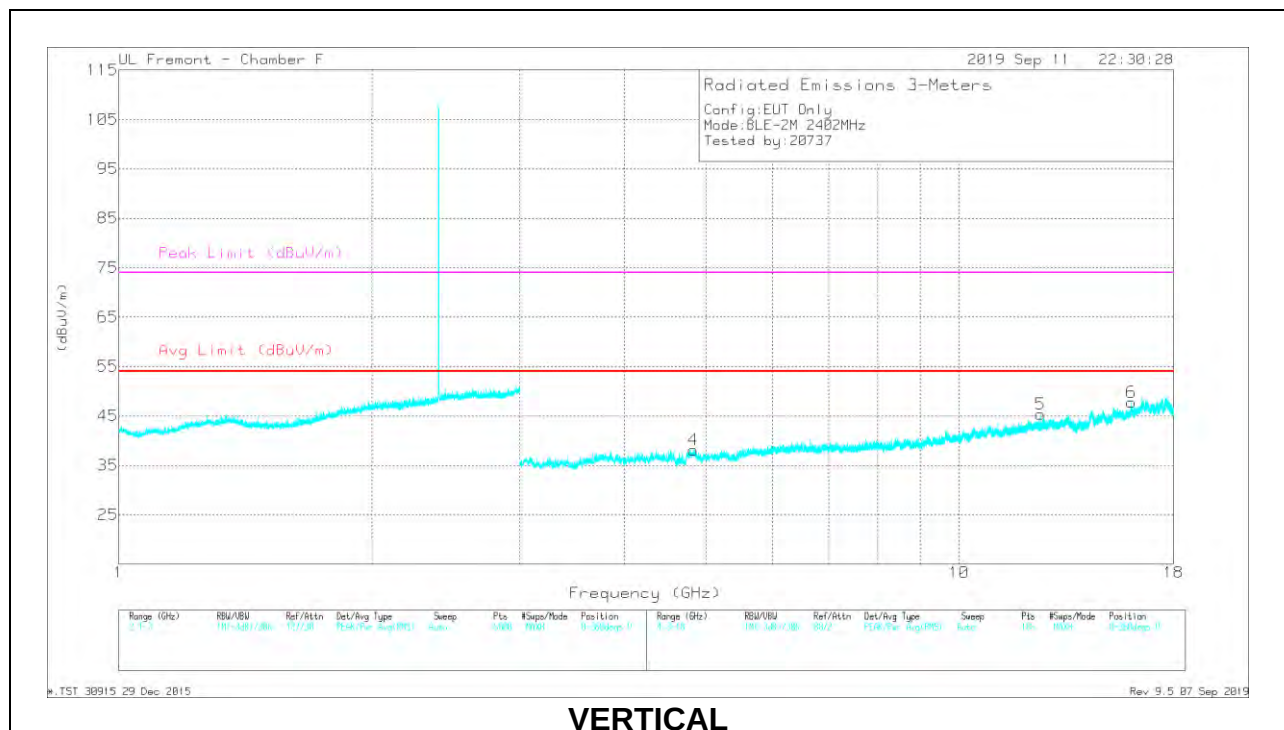
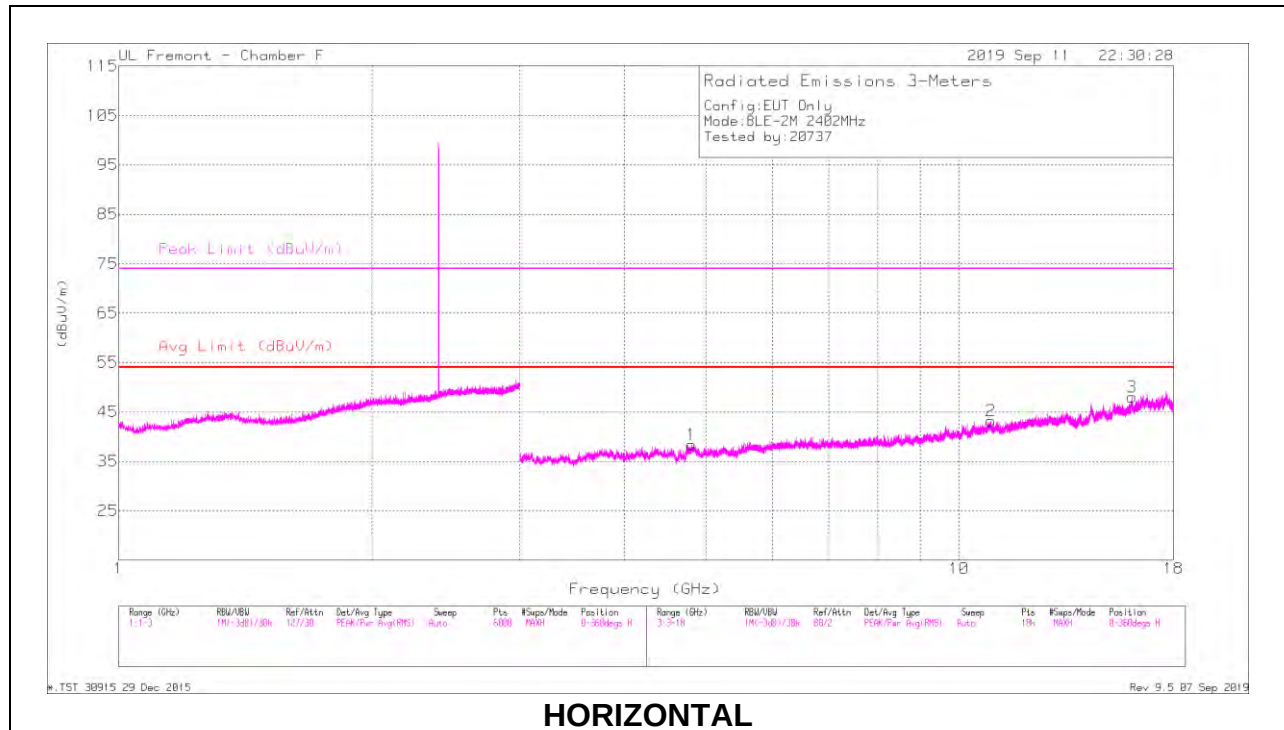
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

BLE_2480_V_2Mbps_ePA_UAT 1_Unit 3053.DAT 30915 29 Dec 2015

Rev 9.5 07 Sep 2019

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

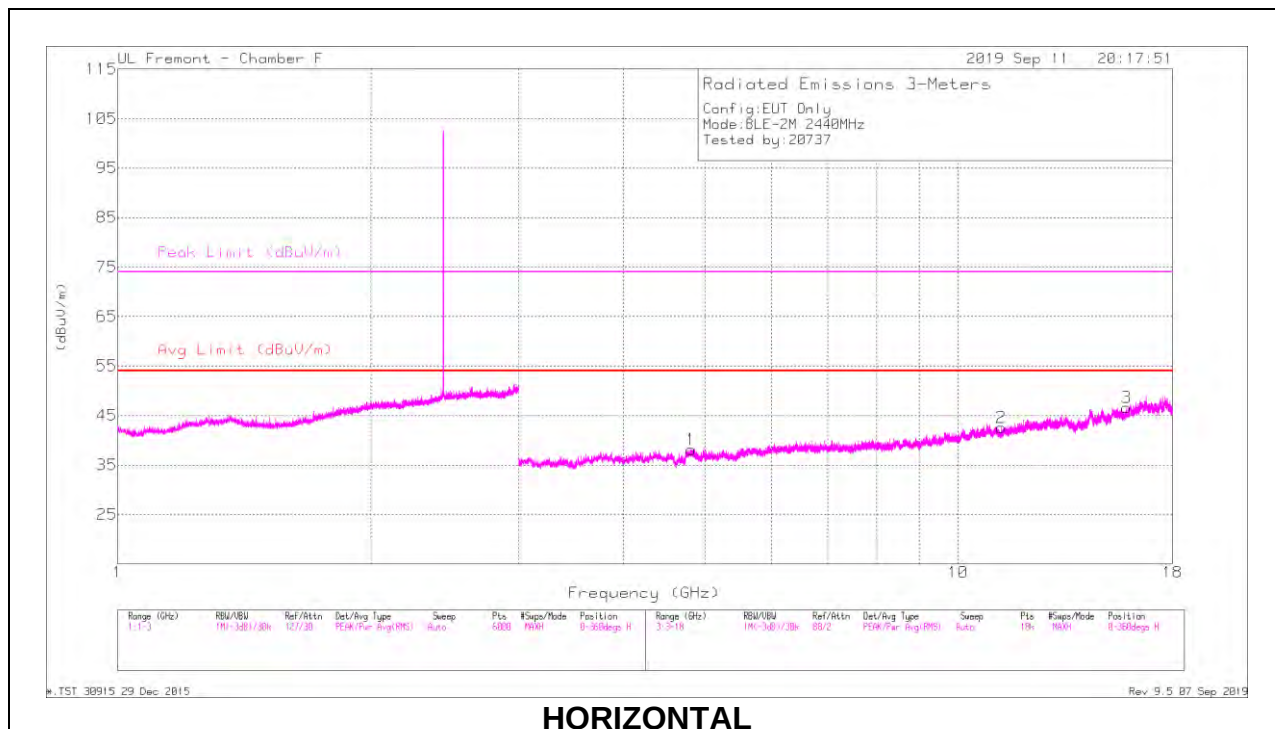
Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
1	* 4.8087	54.63	PK2	34.2	-44.2	44.63	-	-	74	-29.37	217	222	H
	* 4.80674	43.12	MAv1	34.2	-44.3	33.02	54	-20.98	-	-	217	222	H
2	* 10.92159	50.68	PK2	38	-38.3	50.38	-	-	74	-23.62	250	174	H
	* 10.92072	39.02	MAv1	38	-38.3	38.72	54	-15.28	-	-	250	174	H
3	* 16.05994	51.33	PK2	40.9	-37.7	54.53	-	-	74	-19.47	191	231	H
	* 16.06019	39.9	MAv1	40.9	-37.7	43.1	54	-10.9	-	-	191	231	H
4	* 4.82427	53.92	PK2	34.2	-44.1	44.02	-	-	74	-29.98	248	151	V
	* 4.82667	43.24	MAv1	34.2	-44	33.44	54	-20.56	-	-	248	151	V
5	* 12.51114	50.21	PK2	39.2	-39.1	50.31	-	-	74	-23.69	248	265	V
	* 12.51083	39.34	MAv1	39.2	-39.1	39.44	54	-14.56	-	-	248	265	V
6	* 16.04121	50.64	PK2	40.8	-37.1	54.34	-	-	74	-19.66	313	173	V
	* 16.04031	39.98	MAv1	40.8	-37.1	43.68	54	-10.32	-	-	313	173	V

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

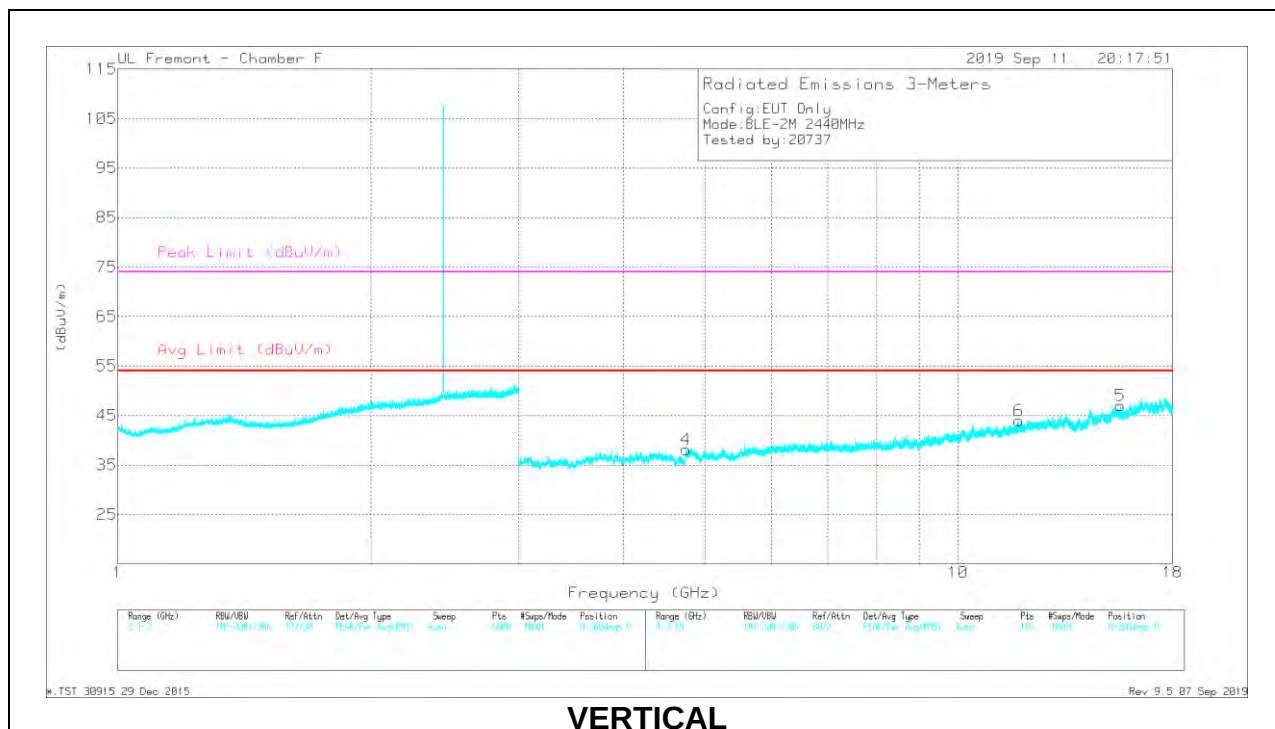
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

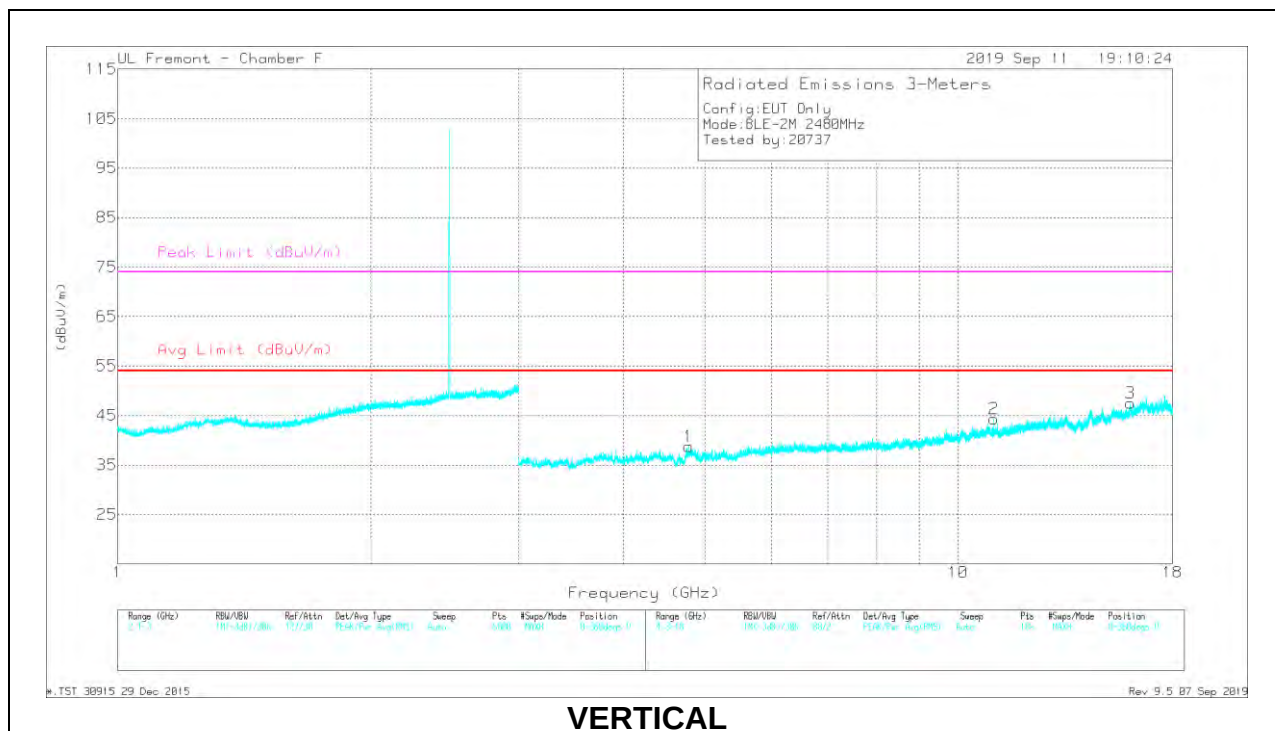
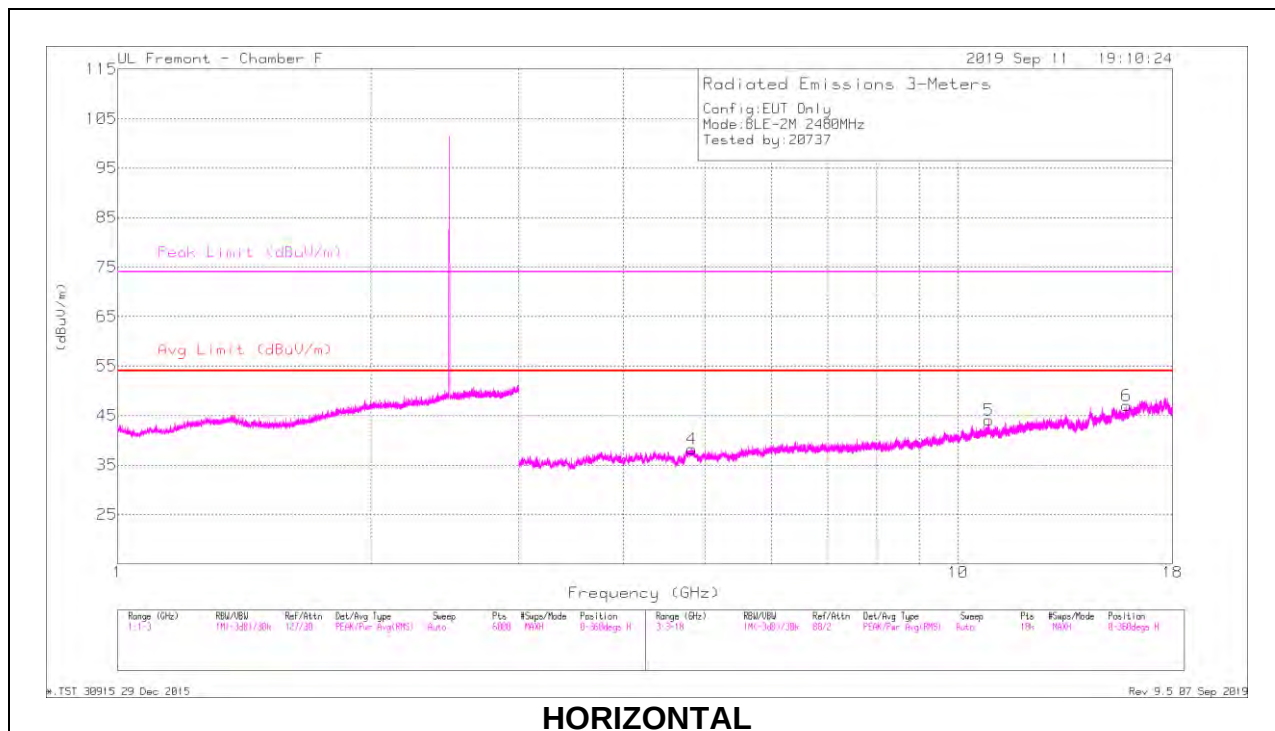
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 4.81333	54.28	PK2	34.2	-44.3	44.18	-	-	74	-29.82	283	137	H
	* 4.81012	43.16	MAv1	34.2	-44.2	33.16	54	-20.84	-	-	283	137	H
2	* 11.25947	49.7	PK2	38	-38.7	49	-	-	74	-25	216	146	H
	* 11.26181	38.38	MAv1	38	-38.8	37.58	54	-16.42	-	-	216	146	H
3	* 15.86784	50.48	PK2	40.4	-37.6	53.28	-	-	74	-20.72	156	224	H
	* 15.86763	39.2	MAv1	40.4	-37.6	42	54	-12	-	-	156	224	H
4	* 4.74449	54.31	PK2	34.1	-44.2	44.21	-	-	74	-29.79	202	140	V
	* 4.74329	43.68	MAv1	34.1	-44.2	33.58	54	-20.42	-	-	202	140	V
5	* 15.61737	51.77	PK2	40.3	-38	54.07	-	-	74	-19.93	247	171	V
	* 15.61512	39.82	MAv1	40.3	-37.9	42.22	54	-11.78	-	-	247	171	V
6	* 11.81685	50.99	PK2	38.6	-38.6	50.99	-	-	74	-23.01	289	255	V
	* 11.81438	39.02	MAv1	38.6	-38.7	38.92	54	-15.08	-	-	289	255	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 RESULTS



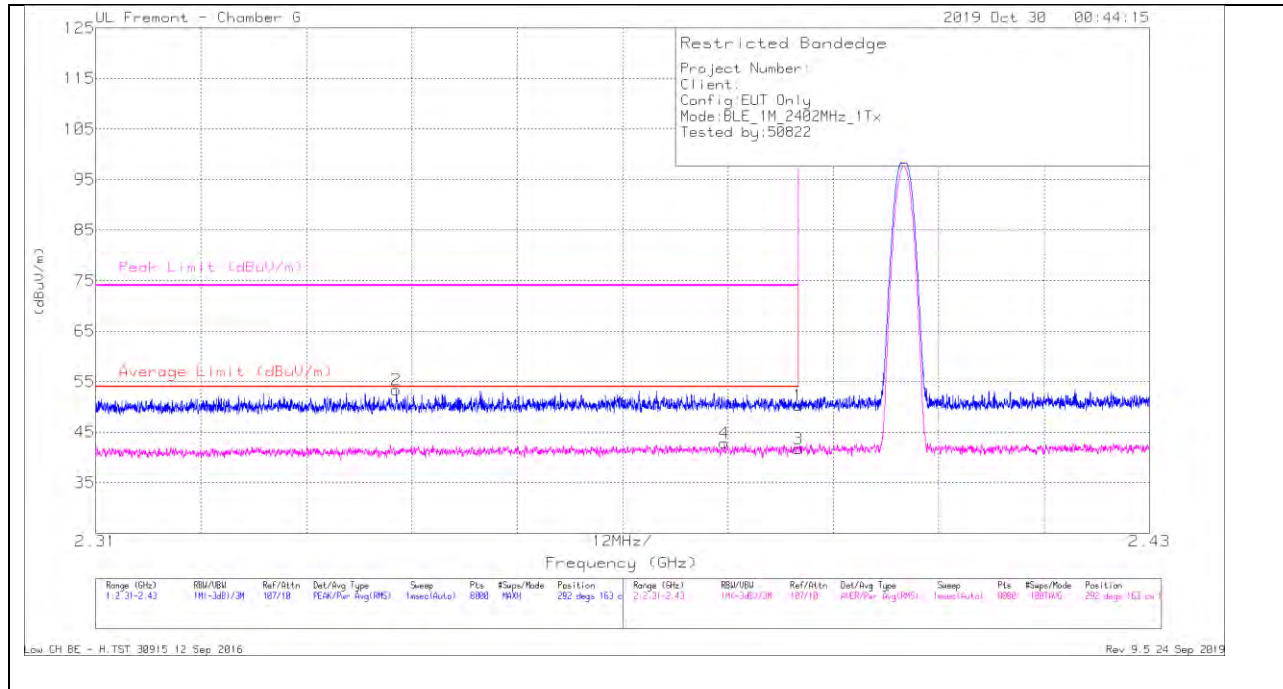
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
4	* 4.81963	54.38	PK2	34.2	-44.1	44.48	-	-	74	-29.52	289	255	H
	* 4.81901	42.97	MAv1	34.2	-44.1	33.07	54	-20.93	-	-	289	255	H
5	* 10.88858	50.43	PK2	38	-38.1	50.33	-	-	74	-23.67	224	281	H
	* 10.89011	38.77	MAv1	38	-38.1	38.67	54	-15.33	-	-	224	281	H
6	* 15.87404	49.88	PK2	40.4	-37.8	52.48	-	-	74	-21.52	172	137	H
	* 15.87324	39.19	MAv1	40.4	-37.7	41.89	54	-12.11	-	-	172	137	H
1	* 4.78116	54.52	PK2	34.1	-44.4	44.22	-	-	74	-29.78	263	260	V
	* 4.78142	43.1	MAv1	34.1	-44.4	32.8	54	-21.2	-	-	263	260	V
2	* 11.02588	49.88	PK2	38	-38.7	49.18	-	-	74	-24.82	211	129	V
	* 11.02659	38.94	MAv1	37.9	-38.7	38.14	54	-15.86	-	-	211	129	V
3	* 16.04006	50.88	PK2	40.8	-37.1	54.58	-	-	74	-19.42	144	239	V
	* 16.03735	39.73	MAv1	40.8	-37.1	43.43	54	-10.57	-	-	144	239	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.3. LOW POWER BLE (1Mbps)**UAT 1****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.34423	43.91	Pk	31.7	-22.2	53.41	-	-	74	-20.59	292	163	H
4	* 2.38159	33.09	RMS	31.9	-22.2	42.79	54	-11.21	-	-	292	163	H
1	* 2.38999	40.54	Pk	31.9	-22.2	50.24	-	-	74	-23.76	292	163	H
3	* 2.38999	31.97	RMS	31.9	-22.2	41.67	54	-12.33	-	-	292	163	H

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

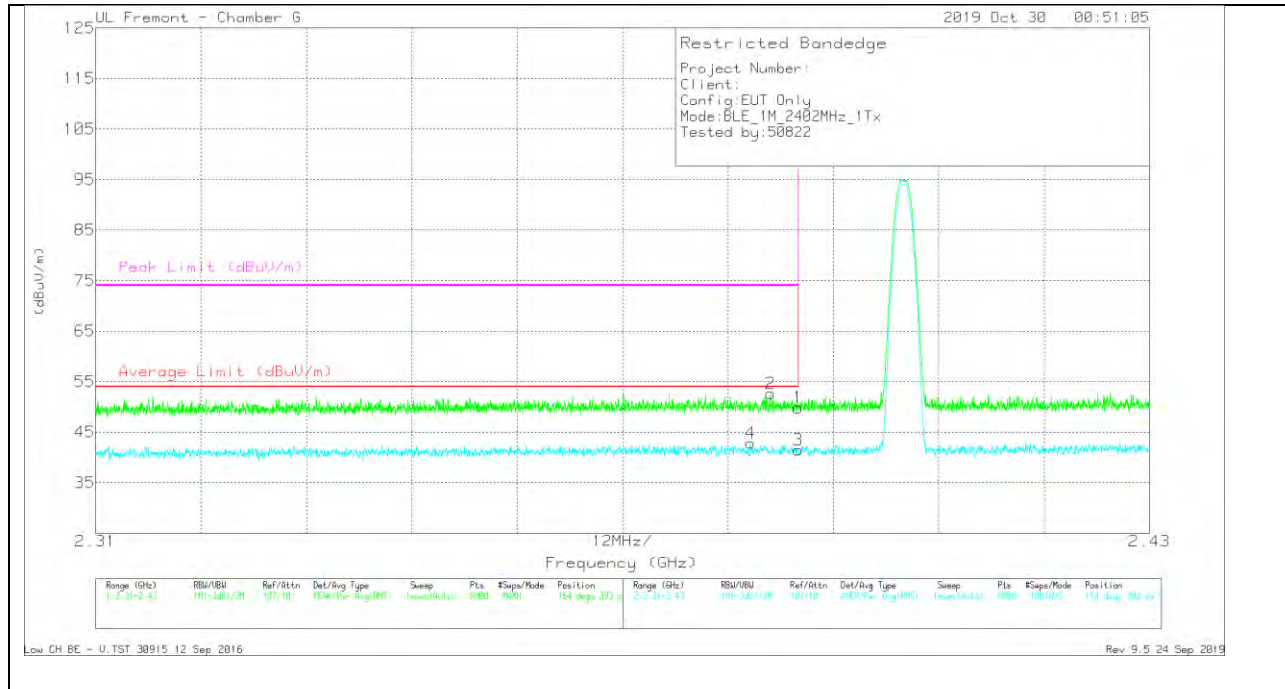
Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 12 Sep 2016

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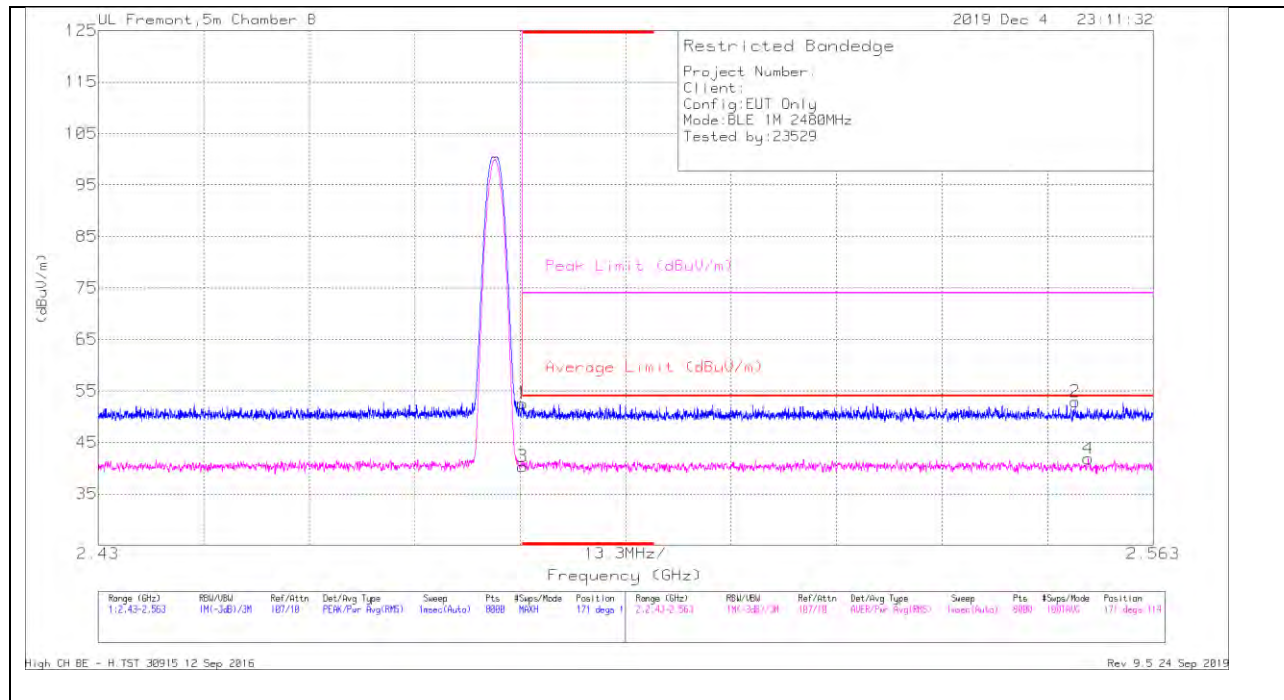
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb l/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	* 2.38999	40.16	PK	31.9	-22.2	49.86	-	-	74	-24.14	154	393	V
2	* 2.38683	42.94	PK	31.9	-22.2	52.64	-	-	74	-21.36	154	393	V
3	* 2.38999	31.76	RMS	31.9	-22.2	41.46	54	-12.54	-	-	154	393	V
4	* 2.38456	33.09	RMS	31.9	-22.2	42.79	54	-11.21	-	-	154	393	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
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BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019 4893 (dB/m)	Amp/Cb I/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	* 2.48351	37.18	Pk	30.2	-18.9	48.48	-	-	74	-25.52	171	113	H
3	* 2.48351	27.62	RMS	30.2	-18.9	38.92	54	-15.08	-	-	171	113	H
4	2.53498	28.93	RMS	30.1	-18.8	40.23	54	-13.77	-	-	171	113	H
2	2.53759	40.84	Pk	30.1	-18.8	52.14	-	-	74	-21.86	171	113	H

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

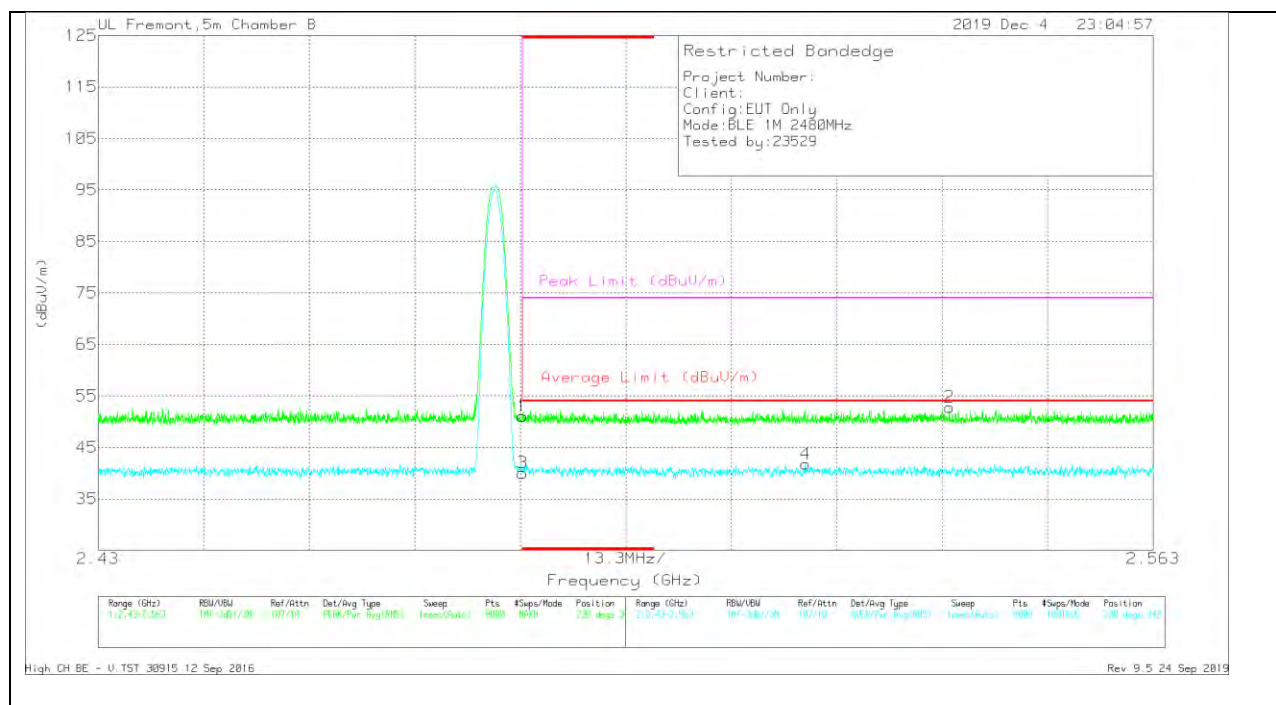
Pk - Peak detector

RMS - RMS detection

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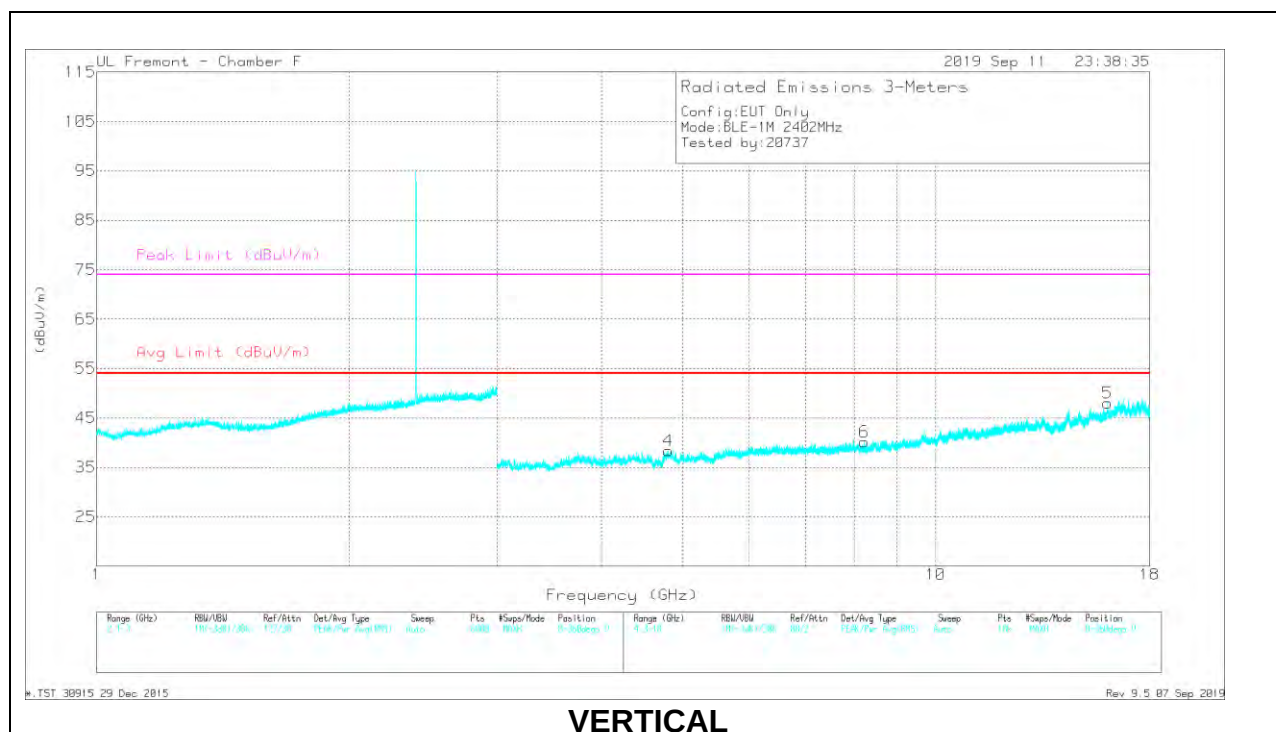
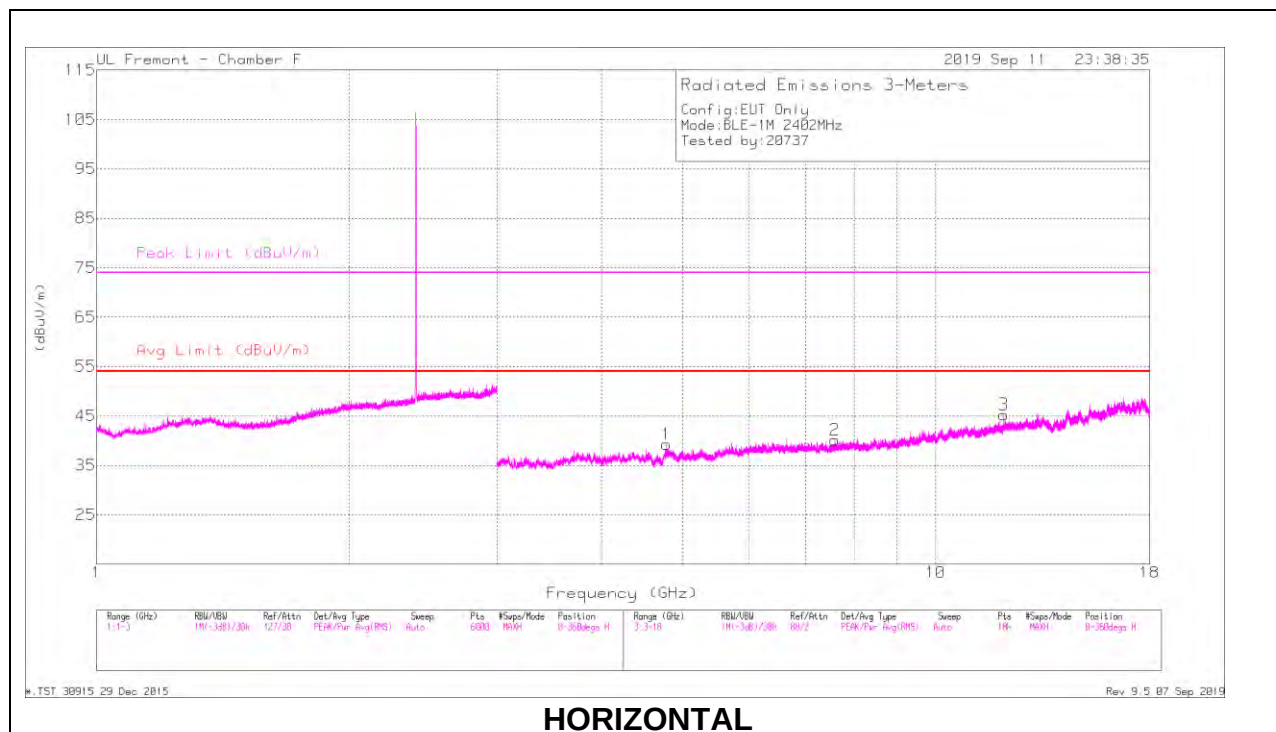
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019 4893 (dB/m)	Amp/Cb/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	* 2.48351	39.78	Pk	30.2	-18.9	51.08	-	-	74	-22.92	230	342	V
3	* 2.48351	28.71	RMS	30.2	-18.9	40.01	54	-13.99	-	-	230	342	V
4	2.51917	30.47	RMS	30.1	-18.8	41.77	54	-12.23	-	-	230	342	V
2	2.53731	41.5	Pk	30.1	-18.8	52.8	-	-	74	-21.2	230	342	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
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HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 4.78286	53.67	PK2	34.1	-44.3	43.47	-	-	74	-30.53	327	202	H
	* 4.78439	43.04	MAv1	34.1	-44.4	32.74	54	-21.26	-	-	327	202	H
2	* 7.58337	51.01	PK2	35.6	-40	46.61	-	-	74	-27.39	272	156	H
	* 7.58367	39.41	MAv1	35.6	-40	35.01	54	-18.99	-	-	272	156	H
3	* 12.05588	50.04	PK2	38.8	-39	49.84	-	-	74	-24.16	204	141	H
	* 12.05659	39.14	MAv1	38.8	-39	38.94	54	-15.06	-	-	204	141	H
4	* 4.80331	53.88	PK2	34.2	-44.3	43.78	-	-	74	-30.22	155	181	V
	* 4.80275	42.55	MAv1	34.2	-44.3	32.45	54	-21.55	-	-	155	181	V
5	* 16.04429	50.53	PK2	40.8	-37.1	54.23	-	-	74	-19.77	116	280	V
	* 16.04338	39.8	MAv1	40.8	-37.1	43.5	54	-10.5	-	-	116	280	V
6	* 8.22817	50.01	PK2	35.9	-39.5	46.41	-	-	74	-27.59	61	227	V
	* 8.2279	39.09	MAv1	35.9	-39.5	35.49	54	-18.51	-	-	61	227	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

RADIATED EMISSIONS

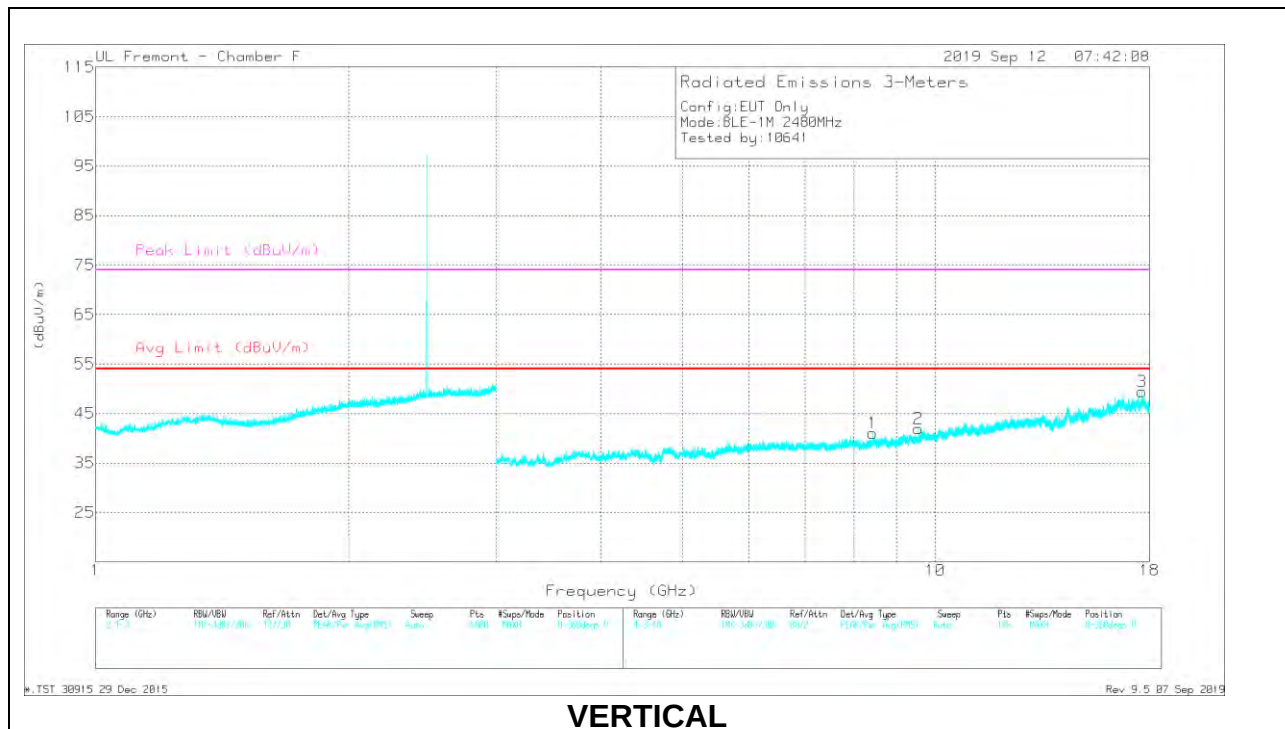
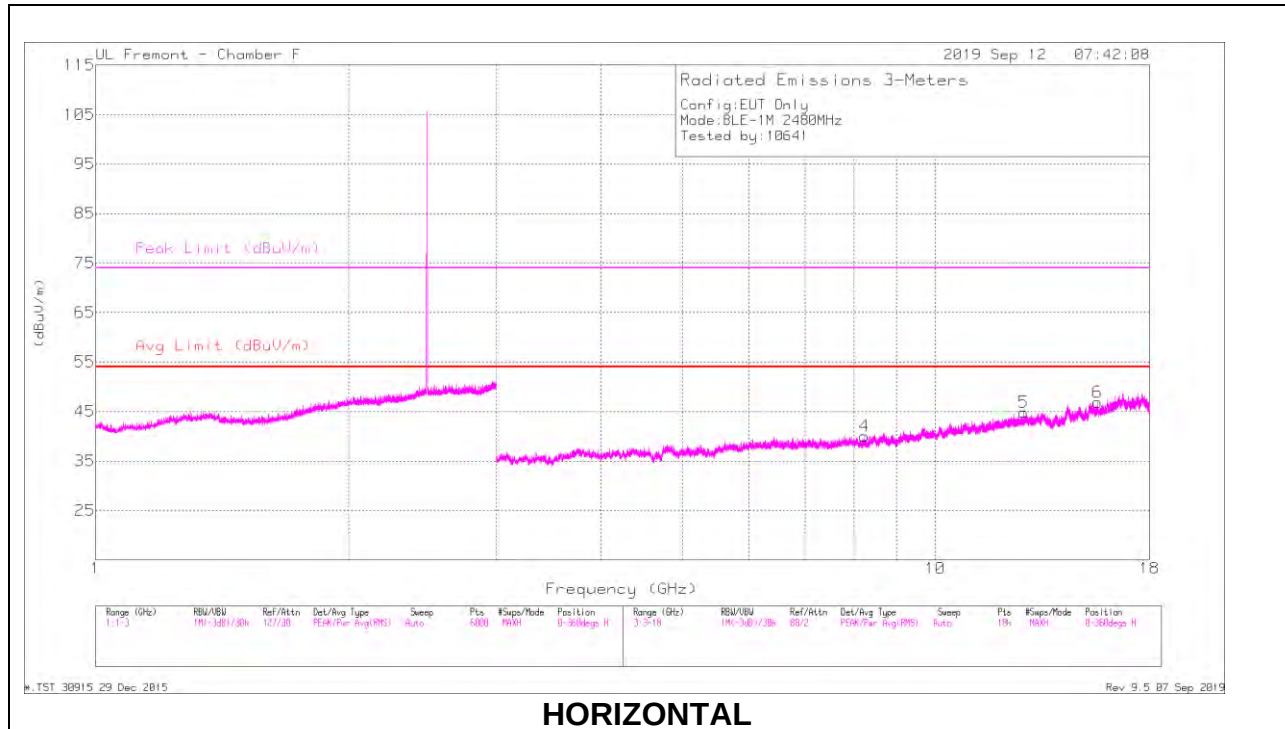
Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
1	* 4.7841	55.71	PK2	34.1	-44.4	45.41	-	-	74	-28.59	61	181	H
	* 4.78592	43.21	MAv1	34.2	-44.3	33.11	54	-20.89	-	-	61	181	H
2	* 7.60157	50.69	PK2	35.8	-39.9	46.59	-	-	74	-27.41	124	127	H
	* 7.60026	39.43	MAv1	35.7	-39.9	35.23	54	-18.77	-	-	124	127	H
3	* 15.79558	50.04	PK2	40.3	-37.9	52.44	-	-	74	-21.56	173	159	H
	* 15.79256	39.09	MAv1	40.2	-37.9	41.39	54	-12.61	-	-	173	159	H
4	* 4.77992	54.35	PK2	34.1	-44.3	44.15	-	-	74	-29.85	209	141	V
	* 4.7827	43.15	MAv1	34.1	-44.4	32.85	54	-21.15	-	-	209	141	V
5	* 11.99106	50.83	PK2	38.8	-39.3	50.33	-	-	74	-23.67	253	273	V
	* 11.98958	39.05	MAv1	38.8	-39.2	38.65	54	-15.35	-	-	253	273	V
6	* 16.09158	50.91	PK2	40.9	-38.4	53.41	-	-	74	-20.59	312	169	V
	* 16.0899	39.88	MAv1	40.9	-38.4	42.38	54	-11.62	-	-	312	169	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 RESULTS



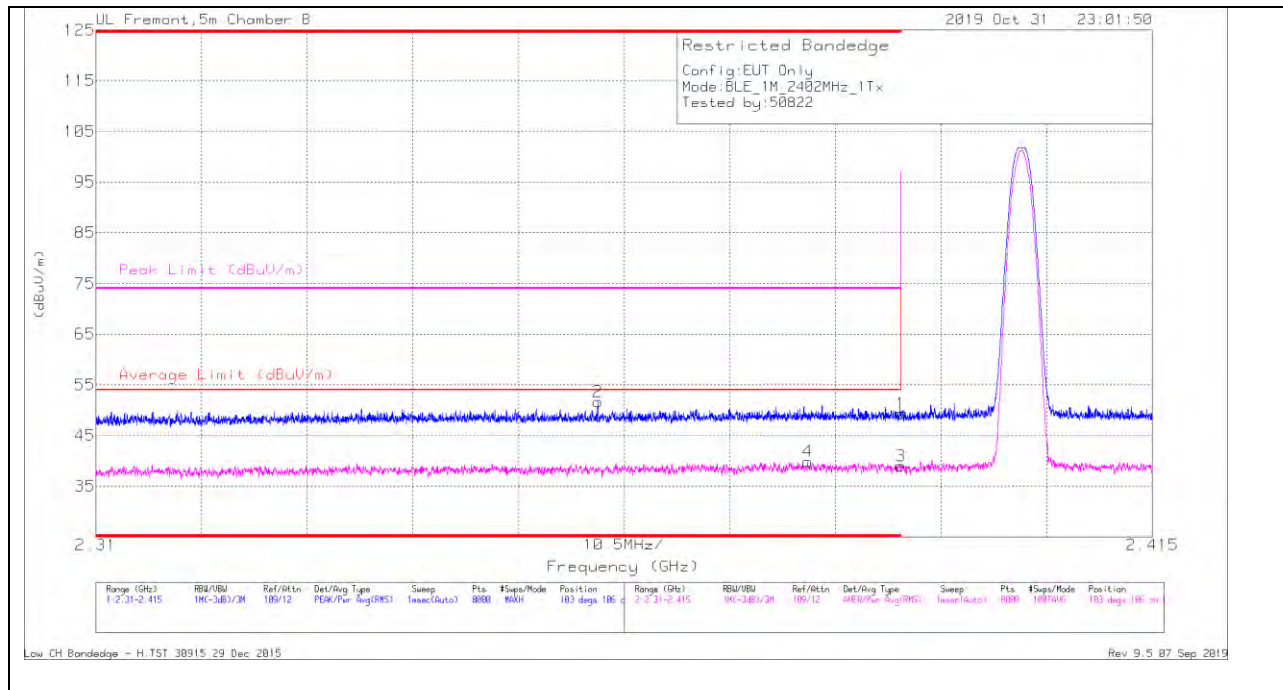
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
4	* 8.2437	50.46	PK2	35.8	-39.5	46.76	-	-	74	-27.24	306	131	H
	* 8.24452	38.82	MAv1	35.9	-39.5	35.22	54	-18.78	-	-	306	131	H
6	* 15.61499	50.53	PK2	40.3	-37.9	52.93	-	-	74	-21.07	244	171	H
	* 15.61381	39.73	MAv1	40.3	-37.9	42.13	54	-11.87	-	-	244	171	H
5	12.74493	50.03	PK2	39.3	-38.9	50.43	-	-	74	-23.57	244	364	H
1	* 8.42483	50.61	PK2	35.9	-39.5	47.01	-	-	74	-26.99	290	155	V
	* 8.42212	39.47	MAv1	35.9	-39.5	35.87	54	-18.13	-	-	290	155	V
2	9.5522	50.58	PK2	36.7	-40	47.28	-	-	74	-26.72	185	333	V
3	17.63125	50.26	PK2	41.6	-36	55.86	-	-	74	-18.14	164	240	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

LAT 3**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/C b/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	37.88	Pk	30.3	-18.9	49.28	-	-	74	-24.72	103	106	H
2	* 2.35988	40.43	Pk	30.1	-18.9	51.63	-	-	74	-22.37	103	106	H
3	* 2.39	27.54	RMS	30.3	-18.9	38.94	54	-15.06	-	-	103	106	H
4	* 2.38075	28.41	RMS	30.2	-18.8	39.81	54	-14.19	-	-	103	106	H

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

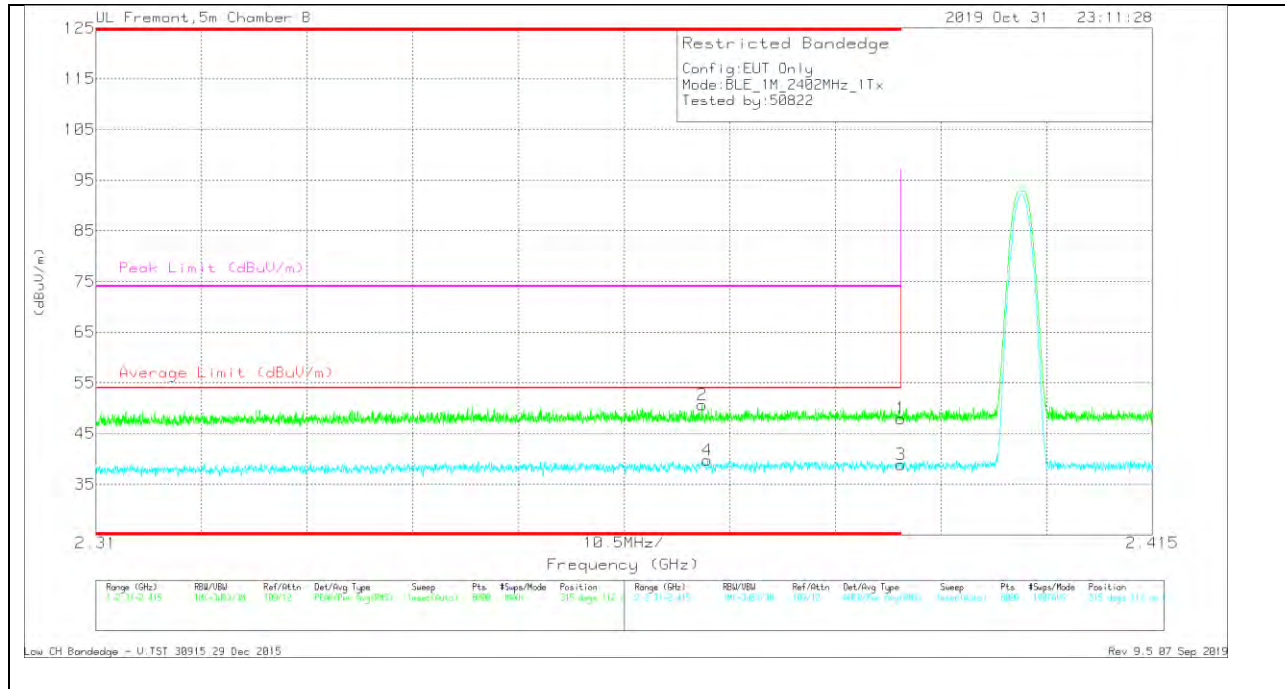
Pk - Peak detector

RMS - RMS detection

Low CH Bandedge - H.TST 30915 29 Dec 2015

Rev 9.5 07 Sep 2019

VERTICAL RESULT



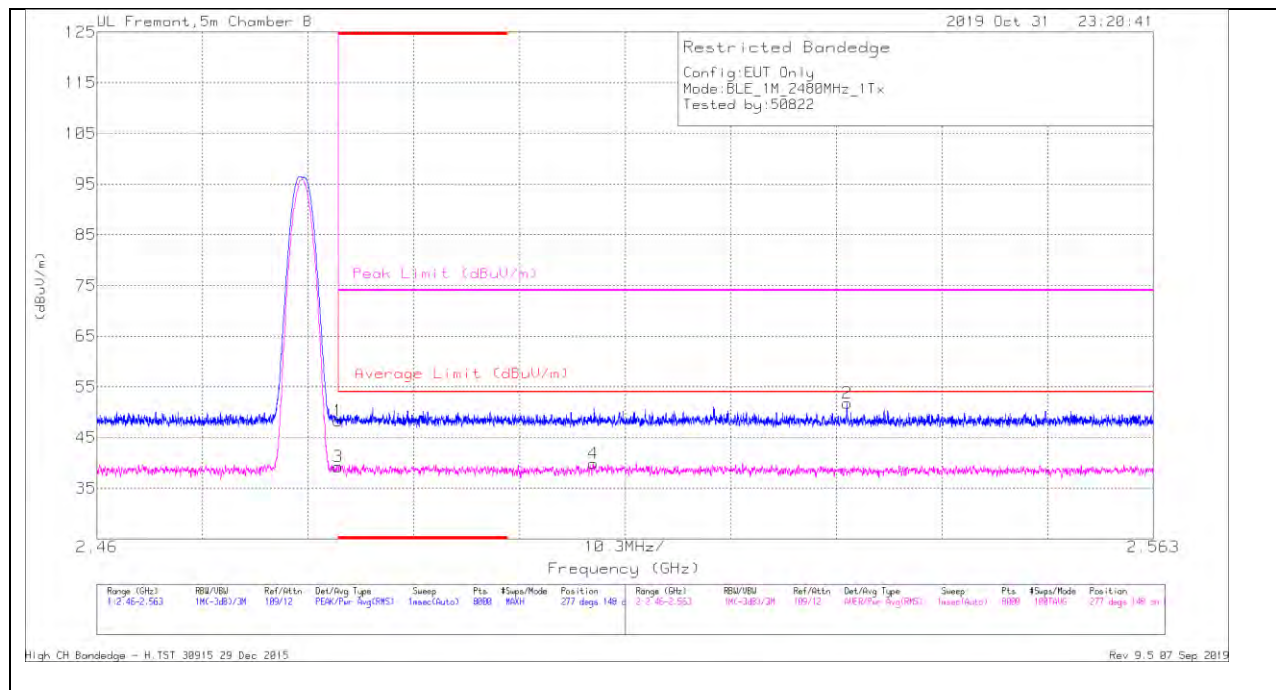
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

Low CH Bandedge - V.TST 30915 29 Dec 2015

Rev 9.5 07 Sep 2019

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cb I/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	* 2.4835	37	Pk	30.2	-18.9	48.3	-	-	74	-25.7	277	148	H
3	* 2.4835	27.89	RMS	30.2	-18.9	39.19	54	-14.81	-	-	277	148	H
4	2.50838	28.67	RMS	30.1	-18.9	39.87	54	-14.13	-	-	277	148	H
2	2.53314	40.73	Pk	30.1	-19	51.83	-	-	74	-22.17	277	148	H

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

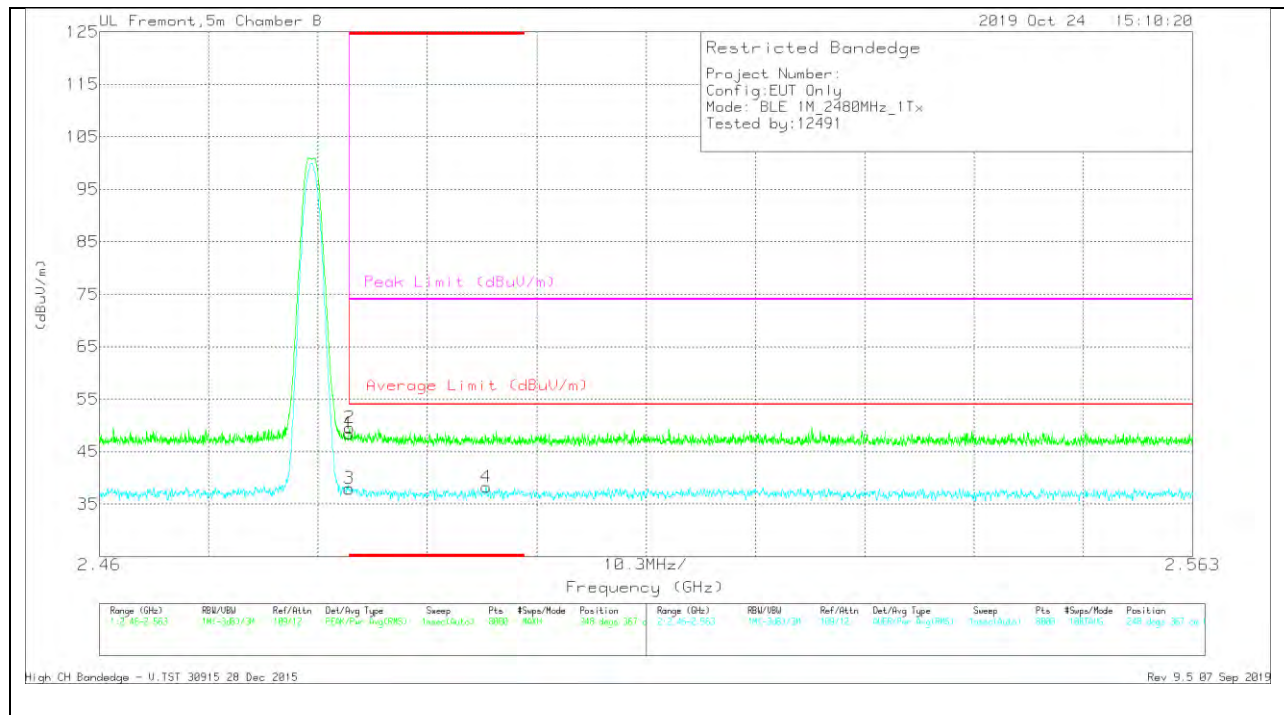
Pk - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cb I/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	*2.4835	37.08	Pk	30.2	-18.9	48.38	-	-	74	-25.62	248	367	V
2	*2.48358	38.19	Pk	30.2	-18.9	49.49	-	-	74	-24.51	248	367	V
3	*2.4835	26.64	RMS	30.2	-18.9	37.94	54	-16.06	-	-	248	367	V
4	*2.49643	27.03	RMS	30.1	-18.9	38.23	54	-15.77	-	-	248	367	V

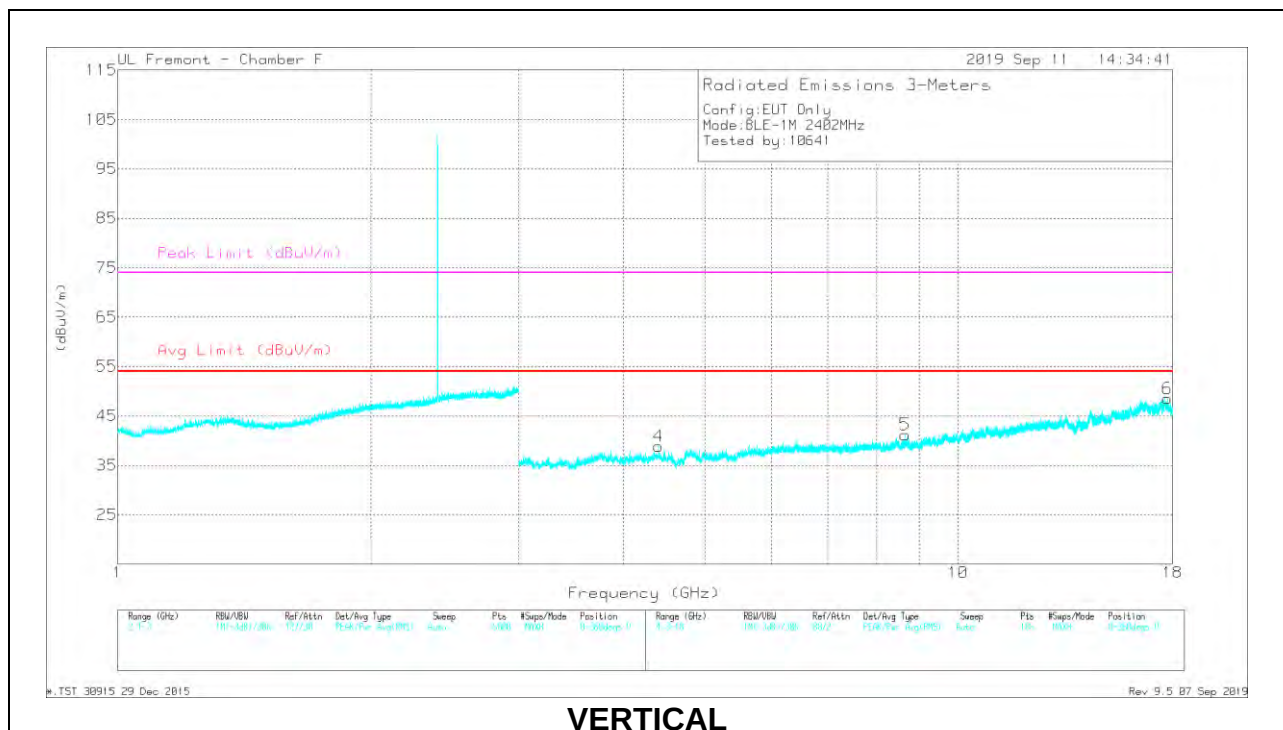
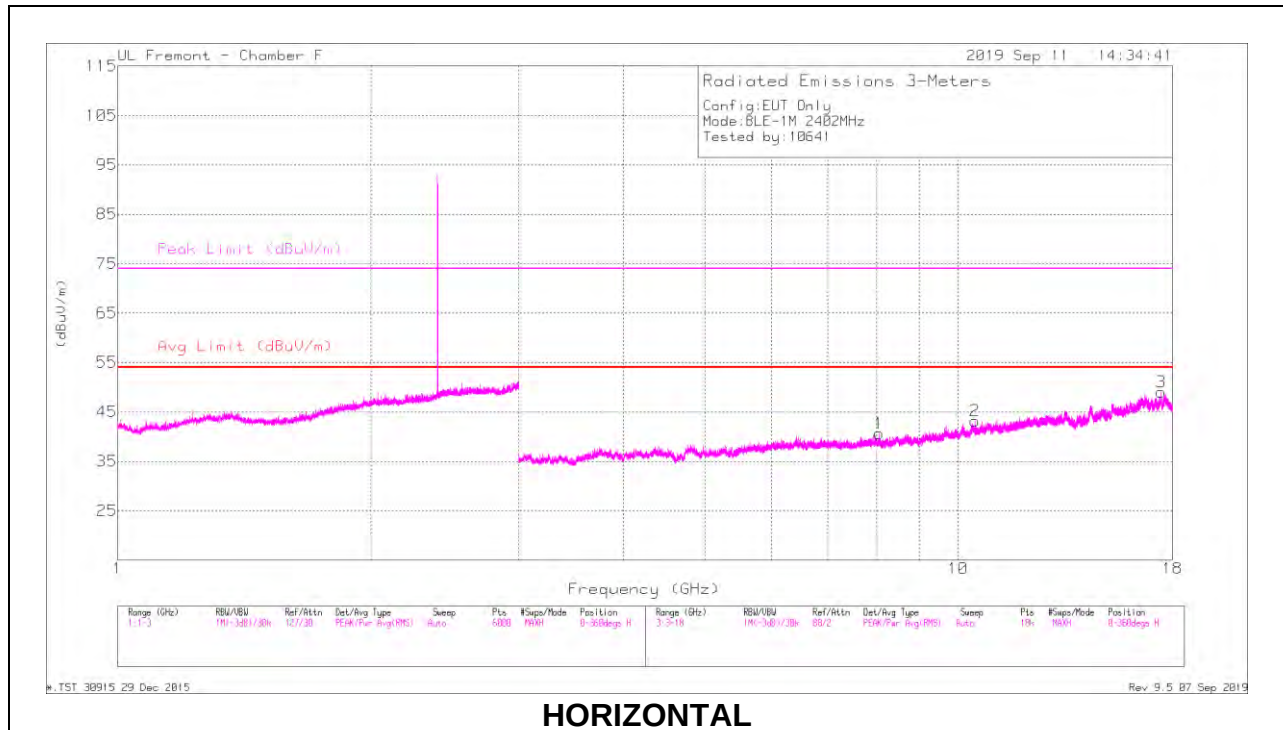
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH Bandedge - V.TST 30915 28 Dec 2015

Rev 9.5 07 Sep 2019

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
1	* 8.05415	49.73	PK2	35.9	-39.4	46.23	-	-	74	-27.77	306	116	H
	* 8.05342	38.97	MAv1	35.9	-39.5	35.37	54	-18.63	-	-	306	116	H
2	10.48668	50.06	PK2	37.7	-39.1	48.66	-	-	74	-25.34	273	148	H
3	17.44475	49.79	PK2	41.4	-36.7	54.49	-	-	74	-19.51	253	168	H
6	* 17.76204	51.08	PK2	41.5	-37.7	54.88	-	-	74	-19.12	323	141	V
	* 17.76217	40.08	MAv1	41.5	-37.7	43.88	54	-10.12	-	-	323	141	V
4	4.40079	55.46	PK2	33.8	-44.1	45.16	-	-	74	-28.84	233	185	V
5	8.65015	50.14	PK2	36	-39.4	46.74	-	-	74	-27.26	199	201	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

RADIATED EMISSIONS

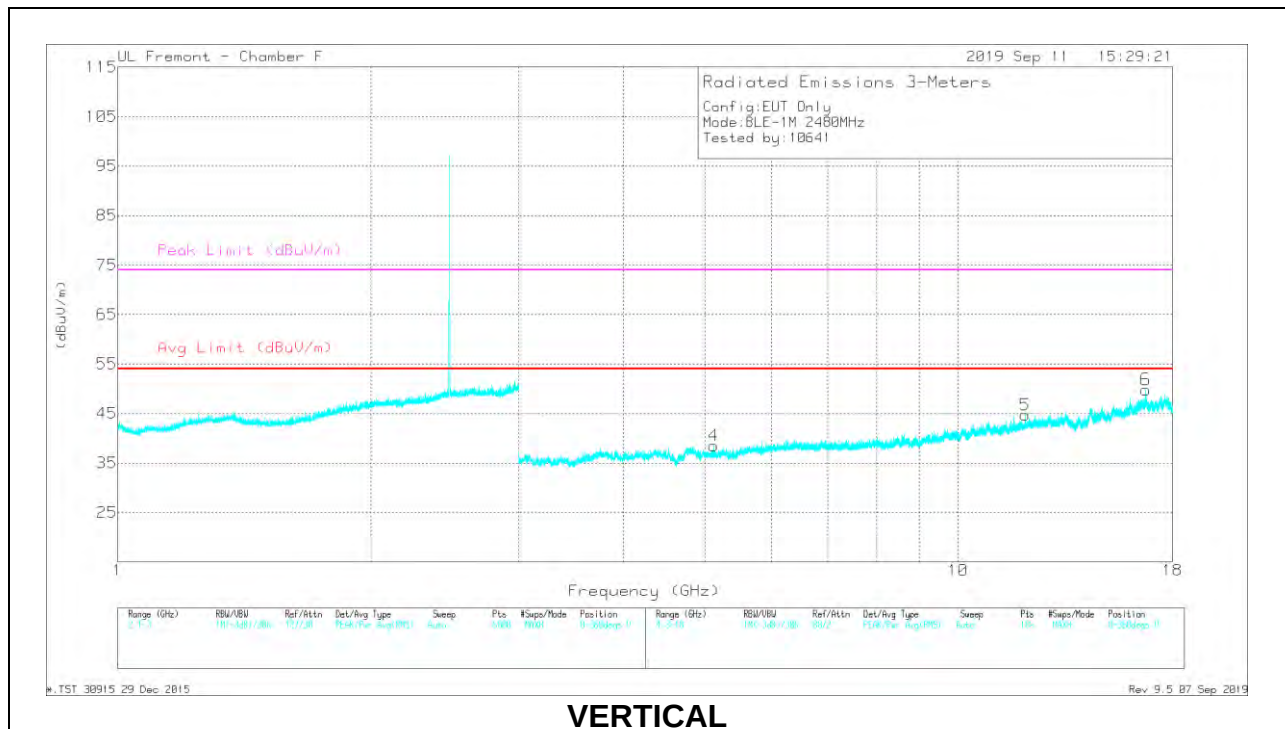
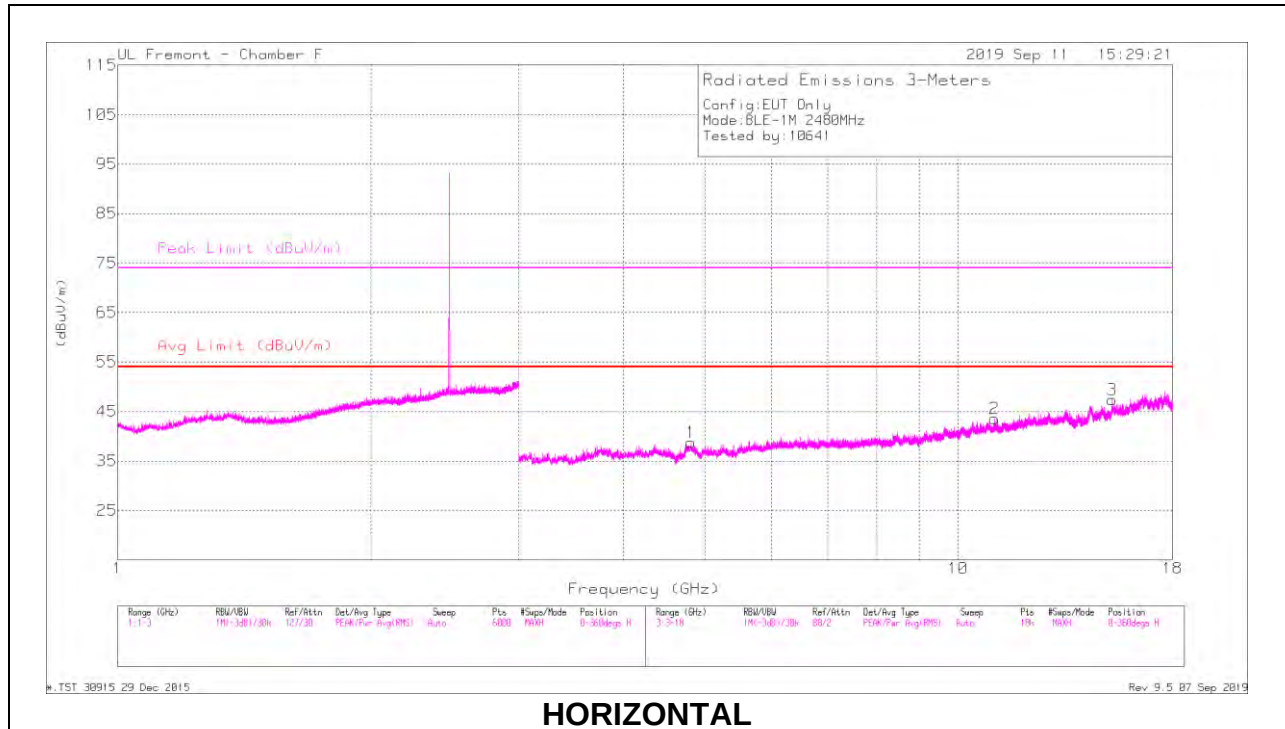
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 4.35702	55.32	PK2	33.9	-44.3	44.92	-	-	74	-29.08	313	111	H
	* 4.35858	43.98	MAv1	33.9	-44.2	33.68	54	-20.32	-	-	313	111	H
3	* 13.26847	50.49	PK2	39.3	-38.5	51.29	-	-	74	-22.71	291	131	H
	* 13.26795	39.56	MAv1	39.3	-38.5	40.36	54	-13.64	-	-	291	131	H
2	17.37333	50.45	PK2	41.5	-37.4	54.55	-	-	74	-19.45	174	180	H
4	* 4.19723	54.42	PK2	33.6	-43.9	44.12	-	-	74	-29.88	259	144	V
	* 4.19566	43.49	MAv1	33.6	-44	33.09	54	-20.91	-	-	259	144	V
5	* 8.23983	50.12	PK2	35.8	-39.5	46.42	-	-	74	-27.58	228	156	V
	* 8.23969	38.91	MAv1	35.8	-39.5	35.21	54	-18.79	-	-	228	156	V
6	13.95166	50.03	PK2	38.5	-37.8	50.73	-	-	74	-23.27	199	170	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 RESULTS



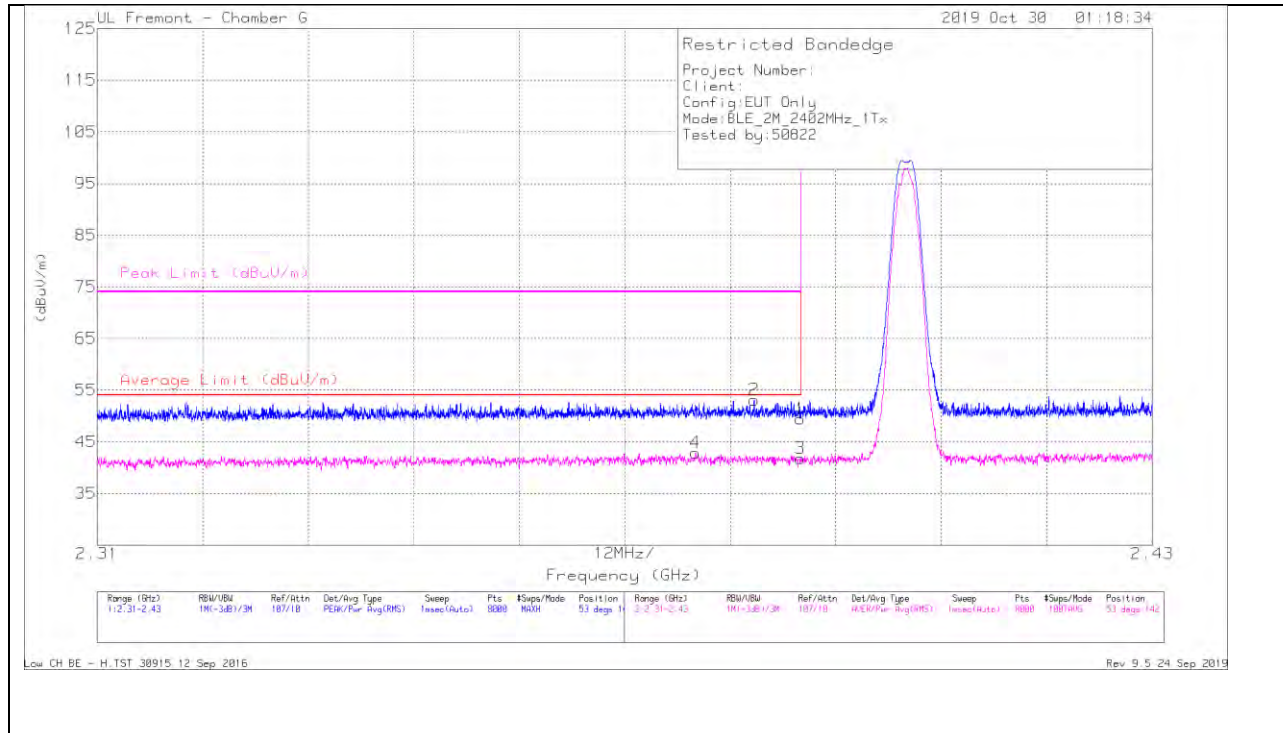
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 4.80949	54.62	PK2	34.2	-44.2	44.62	-	-	74	-29.38	40	118	H
	* 4.80738	43.76	MAv1	34.2	-44.2	33.76	54	-20.24	-	-	40	118	H
2	* 11.05804	50.68	PK2	38	-38.7	49.98	-	-	74	-24.02	58	139	H
	* 11.05854	39.11	MAv1	37.9	-38.7	38.31	54	-15.69	-	-	58	139	H
3	15.26793	50.57	PK2	40.1	-37.8	52.87	-	-	74	-21.13	144	194	H
4	* 5.11807	53.24	PK2	34.3	-43.2	44.34	-	-	74	-29.66	104	154	V
	* 5.11837	42.24	MAv1	34.3	-43.2	33.34	54	-20.66	-	-	104	154	V
5	* 12.02804	50.72	PK2	38.8	-39.1	50.42	-	-	74	-23.58	120	173	V
	* 12.03045	39.31	MAv1	38.8	-39.1	39.01	54	-14.99	-	-	120	173	V
6	16.73187	50.49	PK2	41.9	-37.6	54.79	-	-	74	-19.21	162	219	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.4. LOW POWER BLE (2Mbps)**UAT 1****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.38999	39.73	Pk	31.9	-22.2	49.43	-	-	74	-24.57	53	142	H
2	* 2.38471	43.42	Pk	31.9	-22.2	53.12	-	-	74	-20.88	53	142	H
3	* 2.38999	32.08	RMS	31.9	-22.2	41.78	54	-12.22	-	-	53	142	H
4	* 2.37805	33.18	RMS	31.9	-22.2	42.88	54	-11.12	-	-	53	142	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 9.5.24 Sep 2019