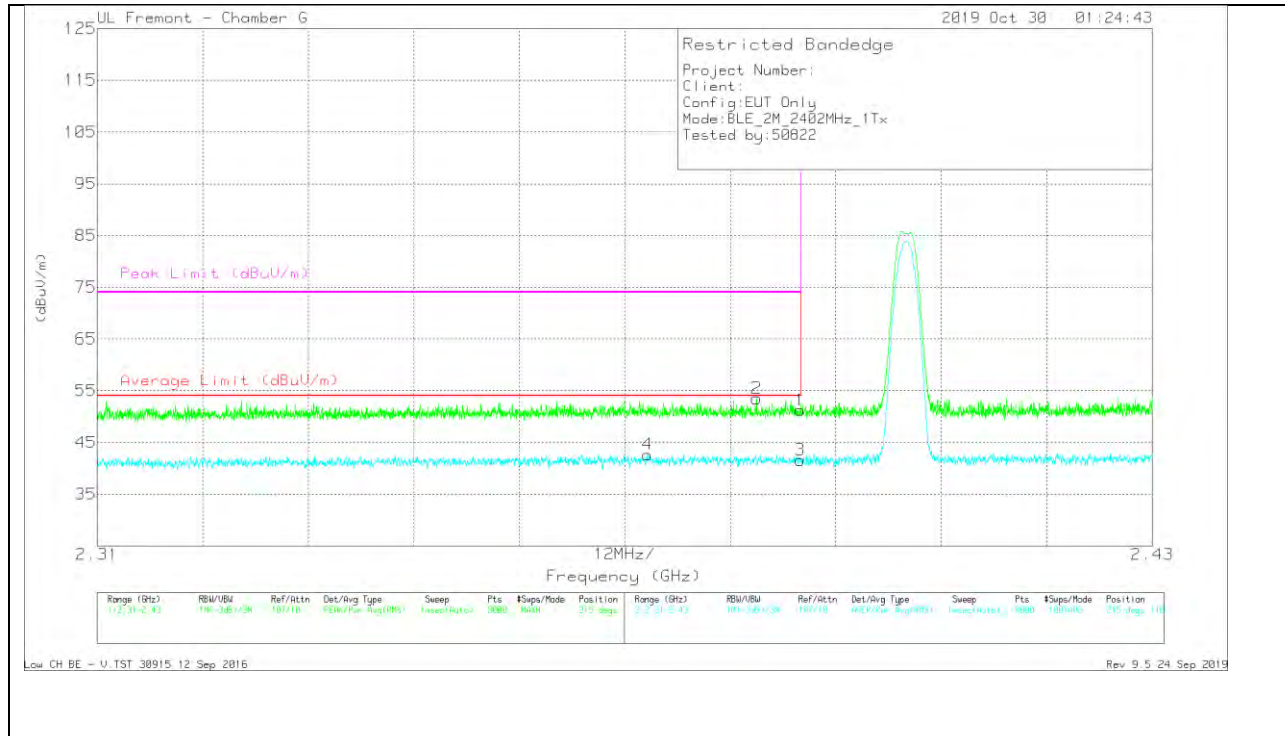


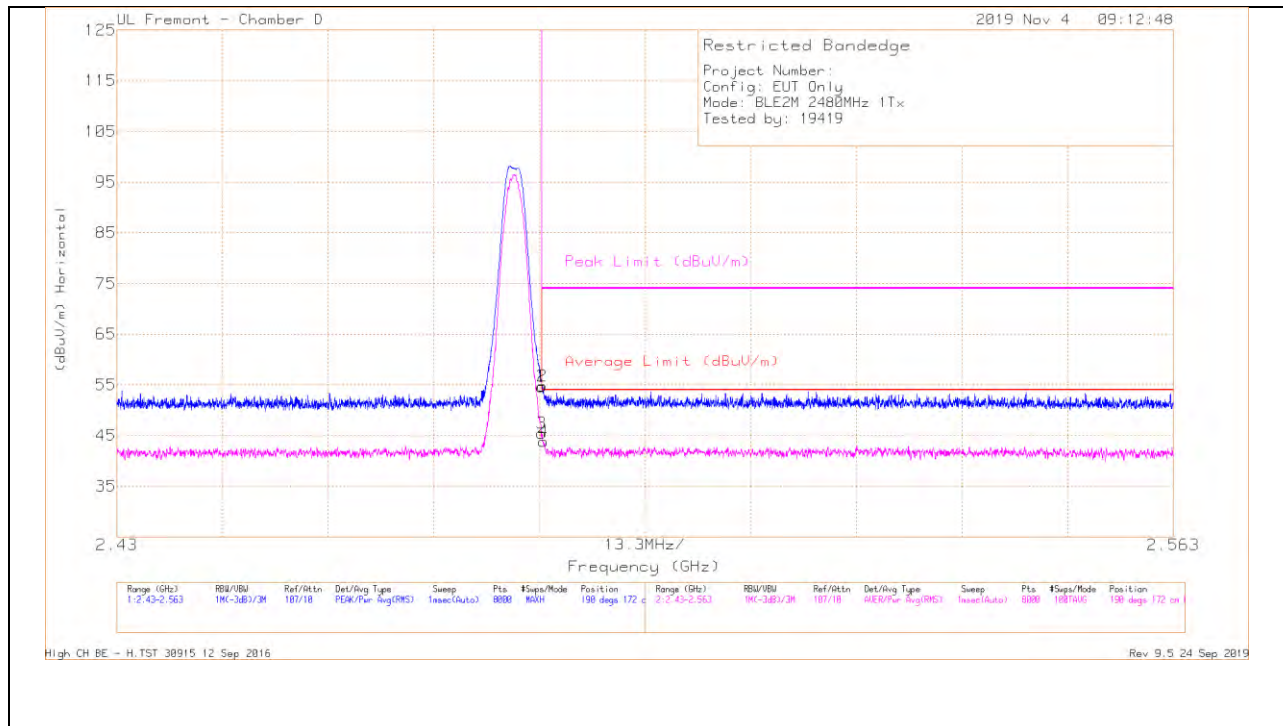
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.38999	41.55	Pk	31.9	-22.2	51.25	-	-	74	-22.75	215	110	V
2	* 2.385	43.83	Pk	31.9	-22.2	53.53	-	-	74	-20.47	215	110	V
3	* 2.38999	31.9	RMS	31.9	-22.2	41.6	54	-12.4	-	-	215	110	V
4	* 2.37262	32.96	RMS	31.9	-22.2	42.66	54	-11.34	-	-	215	110	V

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

Low CH BE - V.TST 30915 12 Sep 2016
Rev 9.5 24 Sep 2019

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb I/Filtr/Pa d (dB)	Correct ed Reading (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	42.78	Pk	32.4	-20.5	54.68	-	-	74	-19.32	190	172	H
2	* 2.48359	42.91	Pk	32.4	-20.5	54.81	-	-	74	-19.19	190	172	H
3	* 2.48351	33.57	RMS	32.4	-20.5	45.47	54	-8.53	-	-	190	172	H
4	* 2.48369	31.91	RMS	32.4	-20.5	43.81	54	-10.19	-	-	190	172	H

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

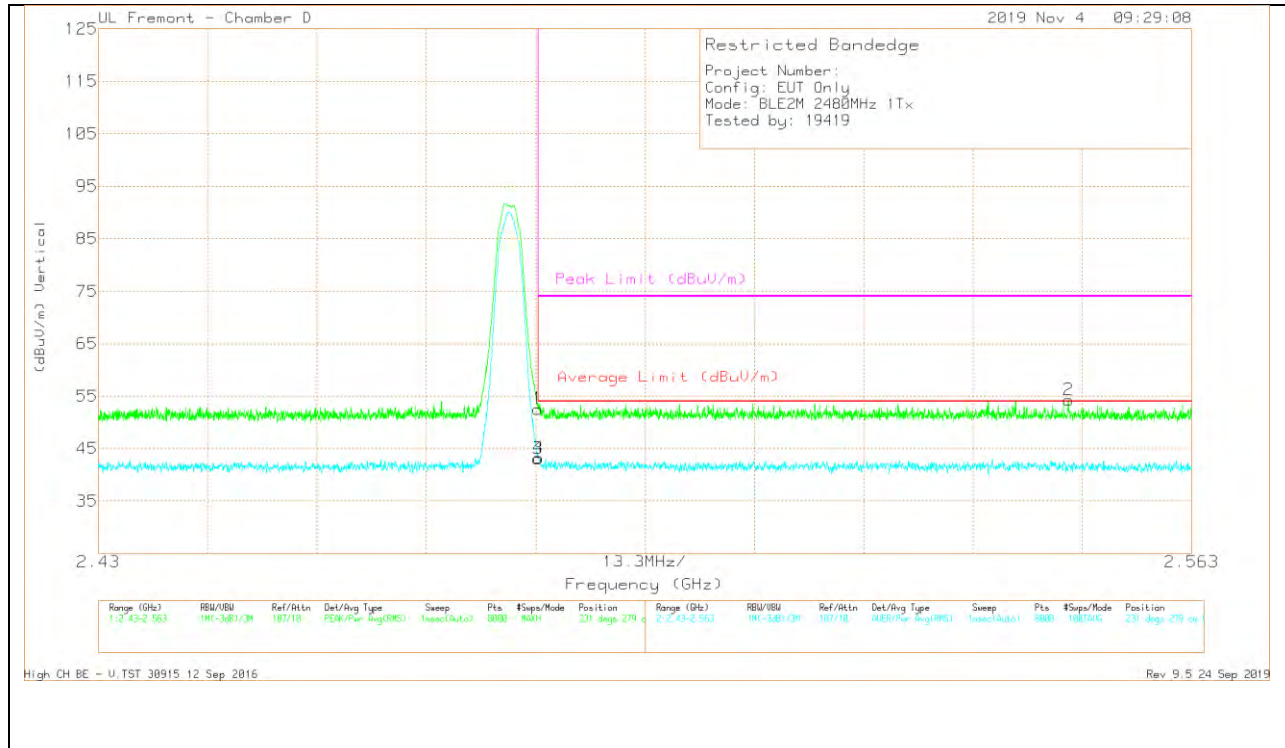
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 24 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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	* 2.48351	40.69	Pk	32.4	-20.5	52.59	-	-	74	-21.41	231	279	V
3	* 2.48351	31.16	RMS	32.4	-20.5	43.06	54	-10.94	-	-	231	279	V
4	* 2.48357	31.34	RMS	32.4	-20.5	43.24	54	-10.76	-	-	231	279	V
2	2.548	42.47	Pk	32.1	-20.3	54.27	-	-	74	-19.73	231	279	V

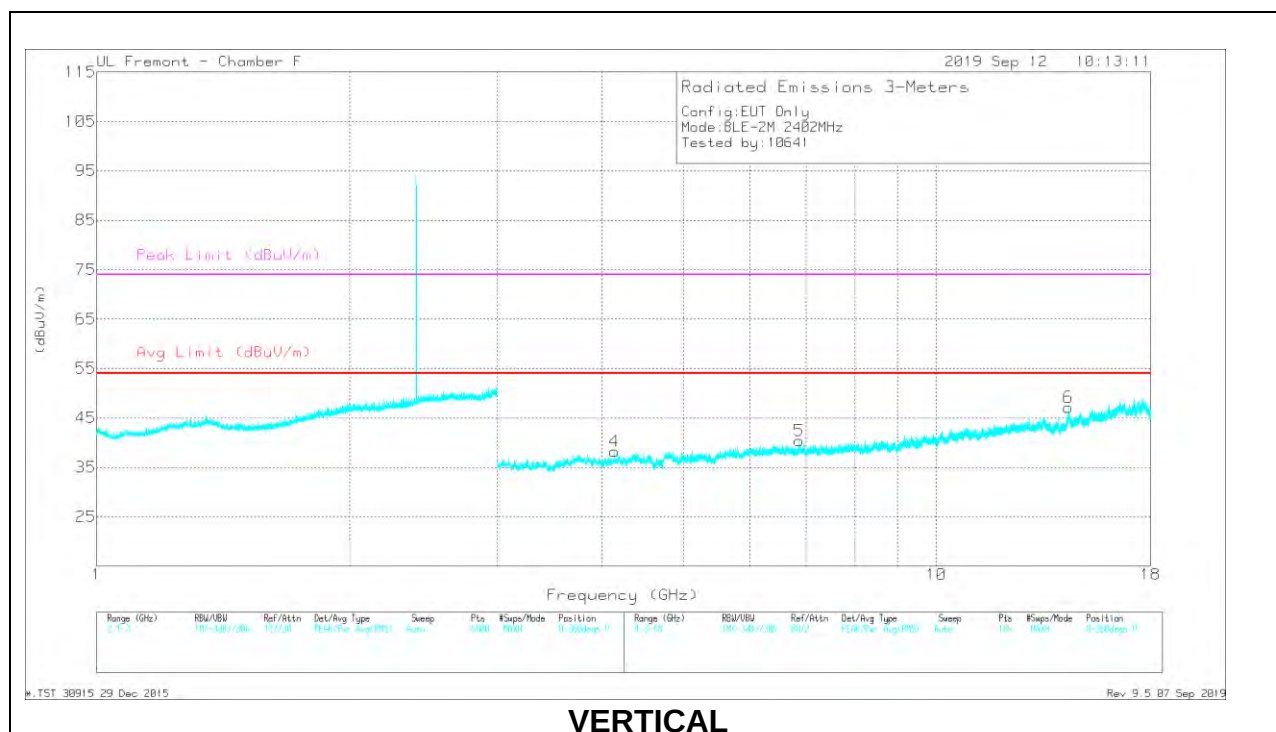
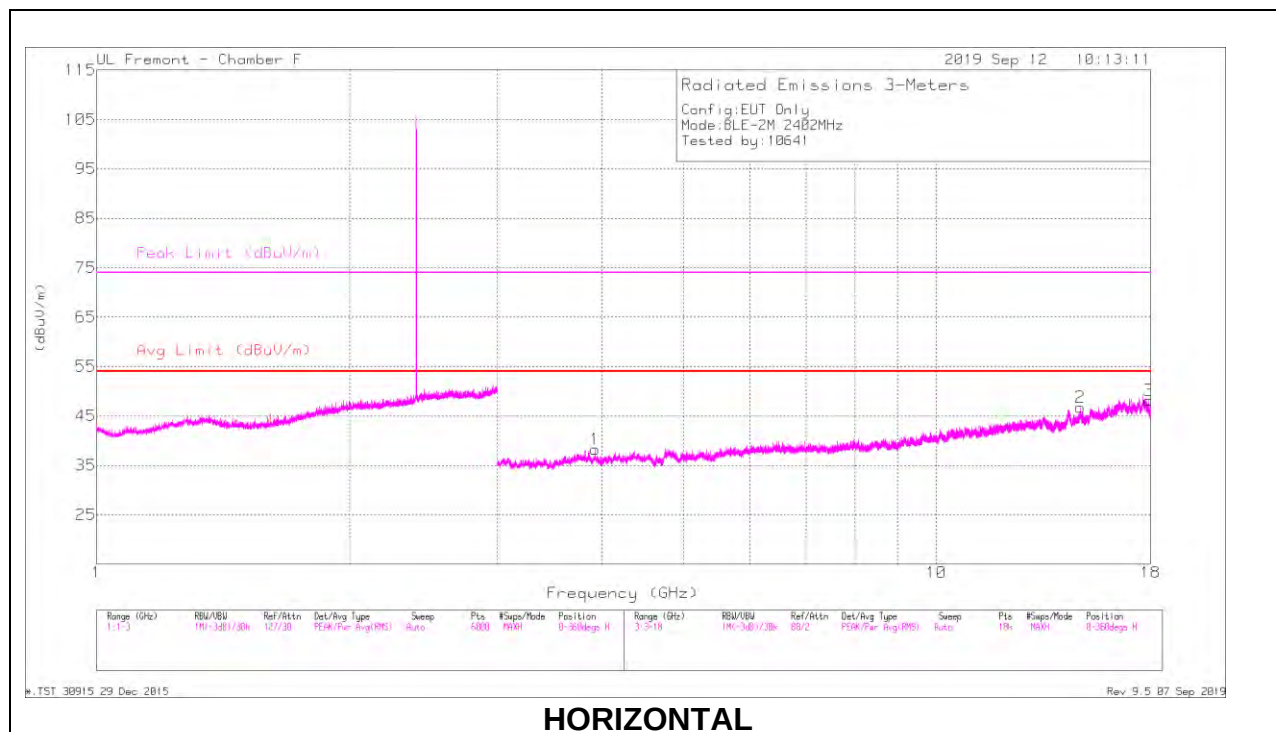
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 24 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)	Azimut h (Degs)	Heig ht (cm)	Polarit y
1	* 3.92075	54.14	PK2	33.7	-43.5	44.34	-	-	74	-29.66	52	135	H
	* 3.92165	43.03	MAv1	33.7	-43.5	33.23	54	-20.77	-	-	52	135	H
2	14.83814	50.64	PK2	39.7	-37.3	53.04	-	-	74	-20.96	124	215	H
3	* 17.9138	50.89	PK2	41.2	-37.8	54.29	-	-	74	-19.71	84	153	H
	* 17.91344	39.53	MAv1	41.2	-37.8	42.93	54	-11.07	-	-	84	153	H
4	* 4.13846	53.94	PK2	33.7	-44	43.64	-	-	74	-30.36	107	168	V
	* 4.13929	43.24	MAv1	33.7	-44	32.94	54	-21.06	-	-	107	168	V
5	6.86096	51.3	PK2	35.8	-40.7	46.4	-	-	74	-27.6	153	193	V
6	14.36507	50.72	PK2	39.1	-36.5	53.32	-	-	74	-20.68	153	193	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

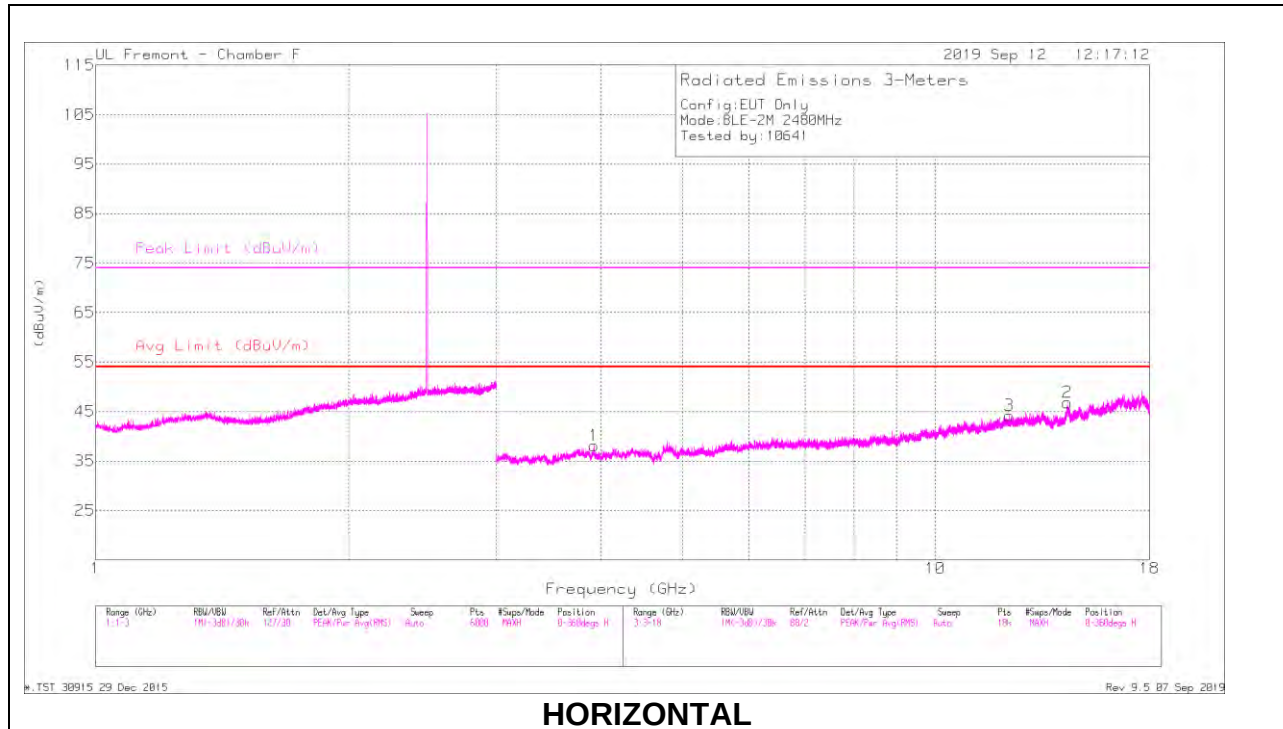
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
2	* 9.1367	50.66	PK2	36.3	-39.6	47.36	-	-	74	-26.64	48	115	H
	* 9.13726	39.57	MAv1	36.3	-39.6	36.27	54	-17.73	-	-	48	115	H
3	* 16.04245	39.74	MAv1	40.8	-37.1	43.44	54	-10.56	-	-	78	130	H
	* 16.04226	50.05	PK2	40.8	-37.1	53.75	-	-	74	-20.25	78	130	H
1	3.40032	54.15	PK2	32.7	-43.3	43.55	-	-	74	-30.45	94	161	H
6	* 12.39689	49.99	PK2	39.1	-39.2	49.89	-	-	74	-24.11	107	146	V
	* 12.3965	39.3	MAv1	39.1	-39.2	39.2	54	-14.8	-	-	107	146	V
4	3.27193	53.83	PK2	32.8	-43.6	43.03	-	-	74	-30.97	140	146	V
5	5.60135	52.73	PK2	34.8	-41.7	45.83	-	-	74	-28.17	158	161	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



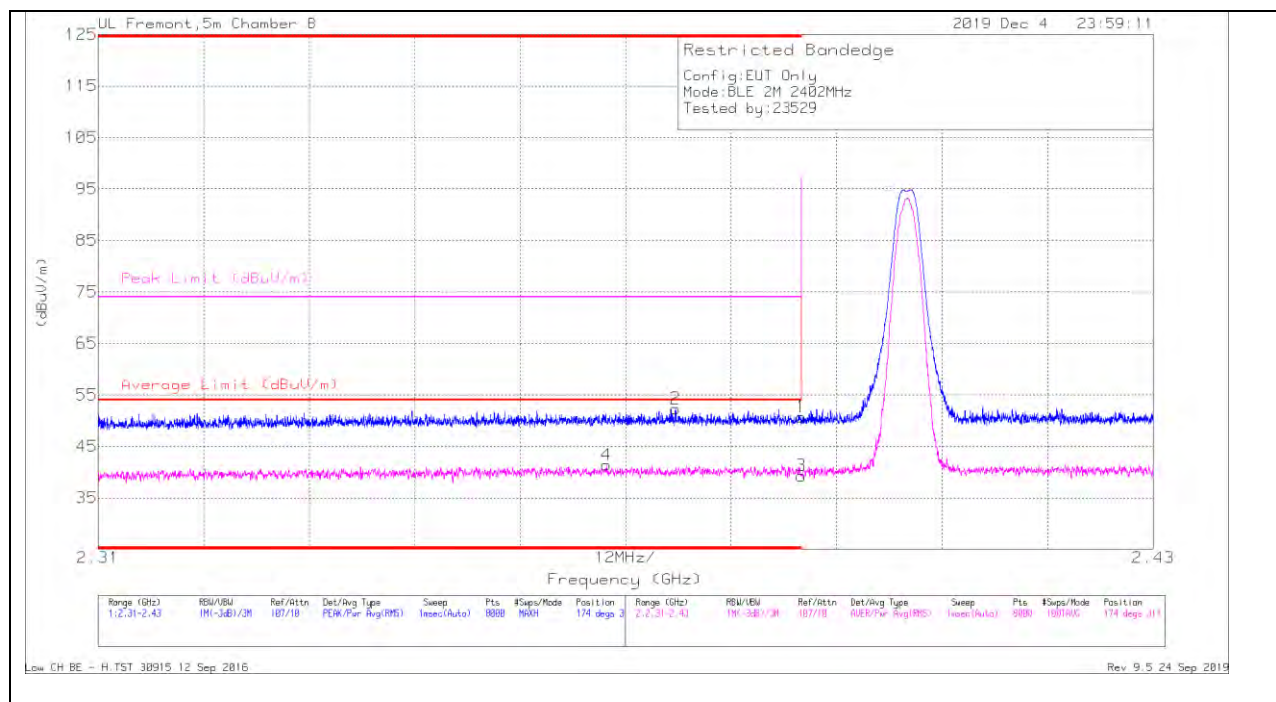
RADIATED EMISSIONS

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	* 3.92271	54.62	PK2	33.7	-43.5	44.82	-	-	74	-29.18	96	123	H
	* 3.92138	43.2	MAv1	33.7	-43.5	33.4	54	-20.6	-	-	96	123	H
3	* 12.26006	50.18	PK2	39.1	-39.2	50.08	-	-	74	-23.92	136	141	H
	* 12.26118	39.16	MAv1	39.1	-39.1	39.16	54	-14.84	-	-	136	141	H
2	14.36412	50.43	PK2	39.1	-36.5	53.03	-	-	74	-20.97	219	200	H
4	* 4.17797	54.61	PK2	33.6	-44.1	44.11	-	-	74	-29.89	187	154	V
	* 4.1769	43.37	MAv1	33.6	-44.1	32.87	54	-21.13	-	-	187	154	V
5	* 11.12914	49.93	PK2	38	-38.2	49.73	-	-	74	-24.27	229	173	V
	* 11.13009	38.48	MAv1	38	-38.1	38.38	54	-15.62	-	-	229	173	V
6	17.62705	50.19	PK2	41.5	-36.2	55.49	-	-	74	-18.51	195	218	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/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
4	* 2.36783	30.39	RMS	30.1	-19.1	41.39	54	-12.61	-	-	174	311	H
2	* 2.37571	41.23	Pk	30.2	-19.1	52.33	-	-	74	-21.67	174	311	H
1	* 2.38999	39.44	Pk	30.3	-19	50.74	-	-	74	-23.26	174	311	H
3	* 2.38999	27.99	RMS	30.3	-19	39.29	54	-14.71	-	-	174	311	H

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

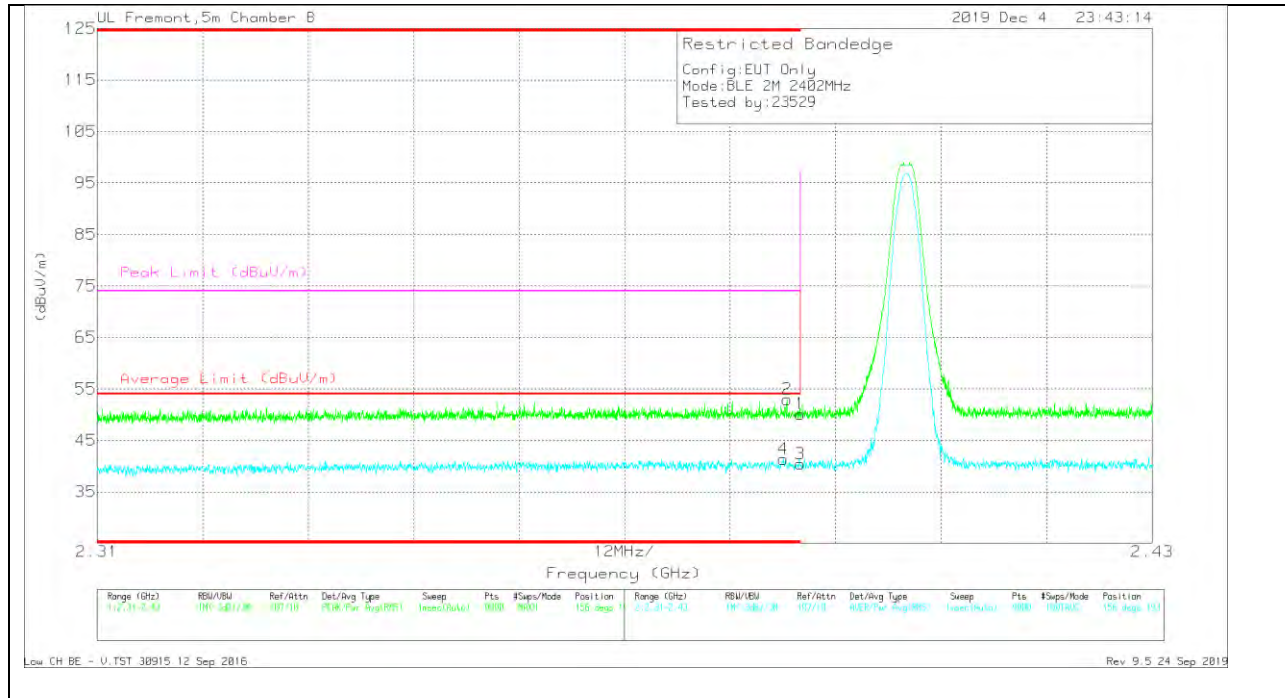
Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 24 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/Cb I/Filt/Pa d (dB)	Correct ed Reading (dBuV/ m)	Average Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.38806	30.16	RMS	30.3	-19.1	41.36	54	-12.64	-	-	156	193	V
2	* 2.38846	41.66	Pk	30.3	-19	52.96	-	-	74	-21.04	156	193	V
1	* 2.38999	38.84	Pk	30.3	-19	50.14	-	-	74	-23.86	156	193	V
3	* 2.38999	29.12	RMS	30.3	-19	40.42	54	-13.58	-	-	156	193	V

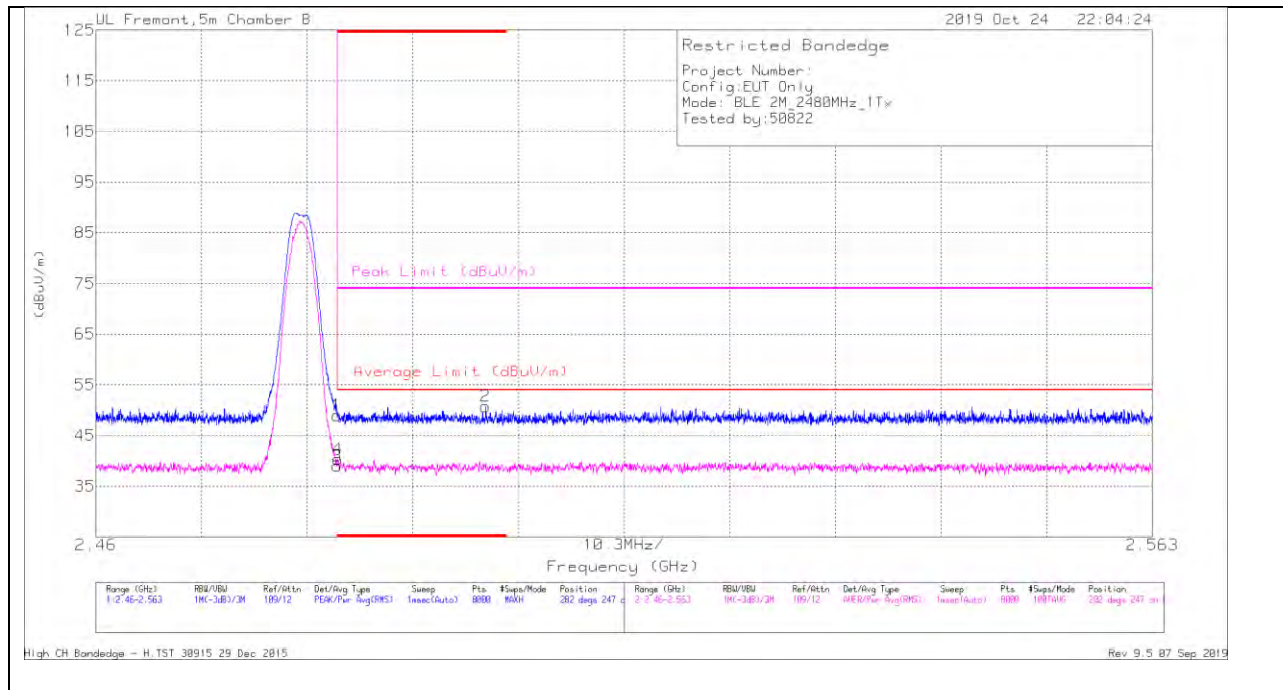
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 24 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	37.69	Pk	30.2	-18.9	48.99	-	-	74	-25.01	282	247	H
2	* 2.49799	39.53	Pk	30.1	-18.9	50.73	-	-	74	-23.27	282	247	H
3	* 2.4835	27.75	RMS	30.2	-18.9	39.05	54	-14.95	-	-	282	247	H
4	* 2.48358	29.07	RMS	30.2	-18.9	40.37	54	-13.63	-	-	282	247	H

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

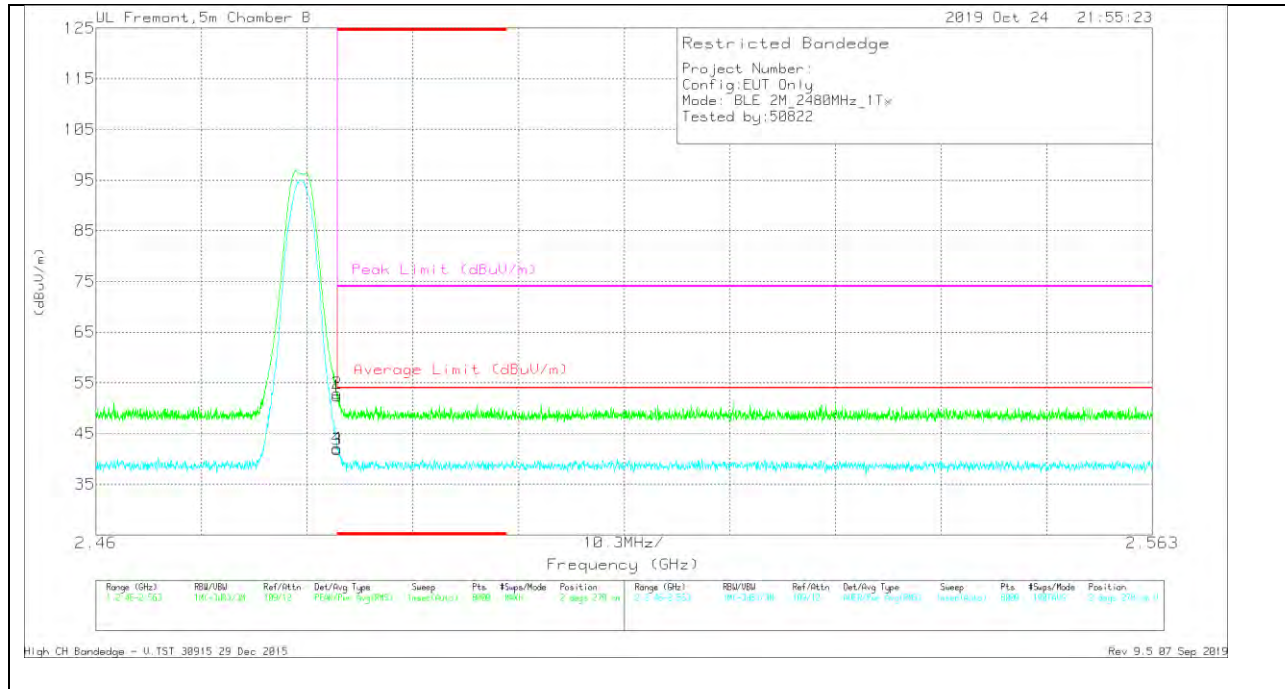
PK - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 29 Dec 2015

Rev 9.5 07 Sep 2019

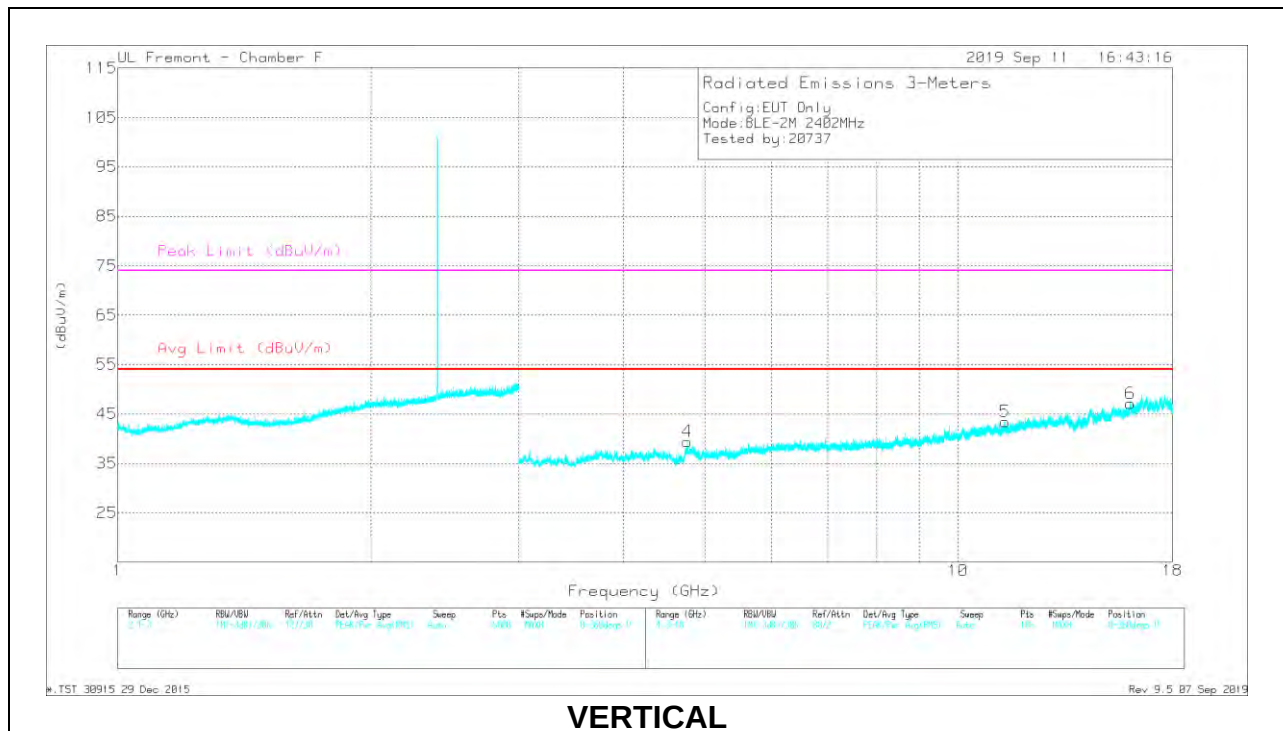
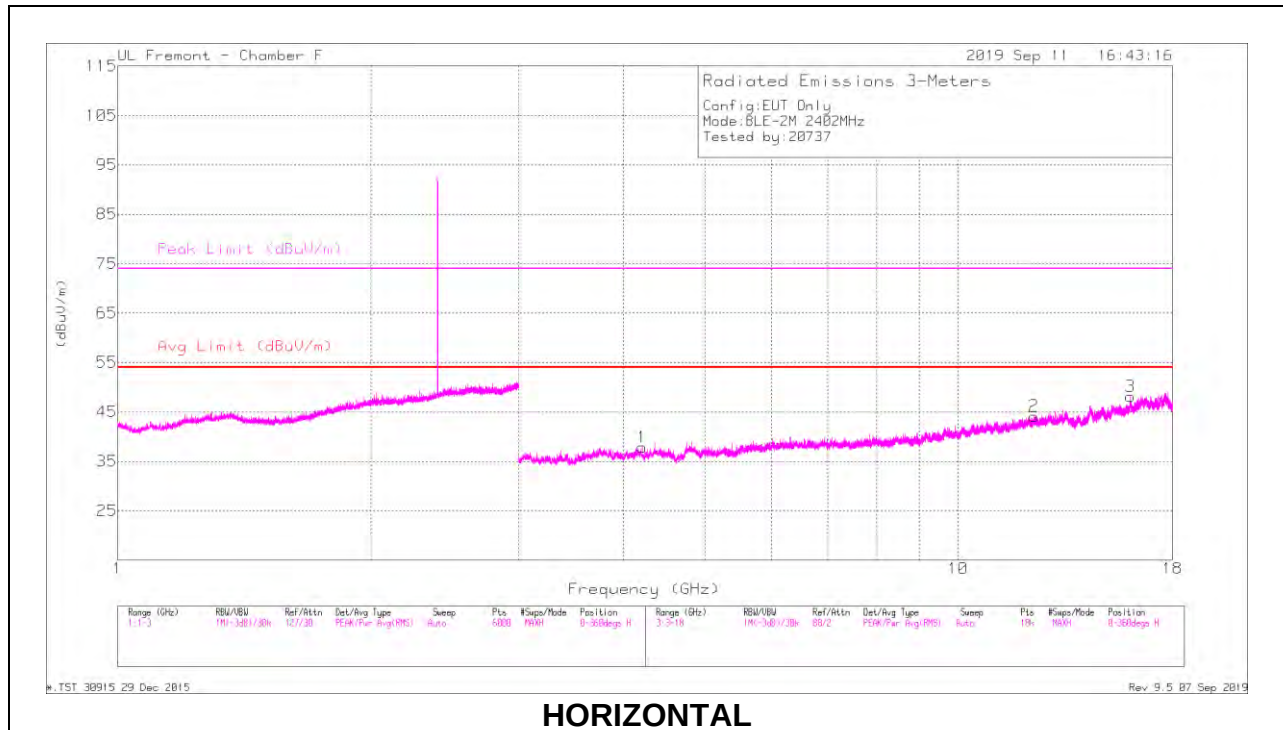
VERTICAL RESULT



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	41.15	PK	30.2	-18.9	52.45	-	-	74	-21.55	2	278	V
2	* 2.48353	41.57	PK	30.2	-18.9	52.87	-	-	74	-21.13	2	278	V
3	* 2.4835	30.51	RMS	30.2	-18.9	41.81	54	-12.19	-	-	2	278	V
4	* 2.48354	30.82	RMS	30.2	-18.9	42.12	54	-11.88	-	-	2	278	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

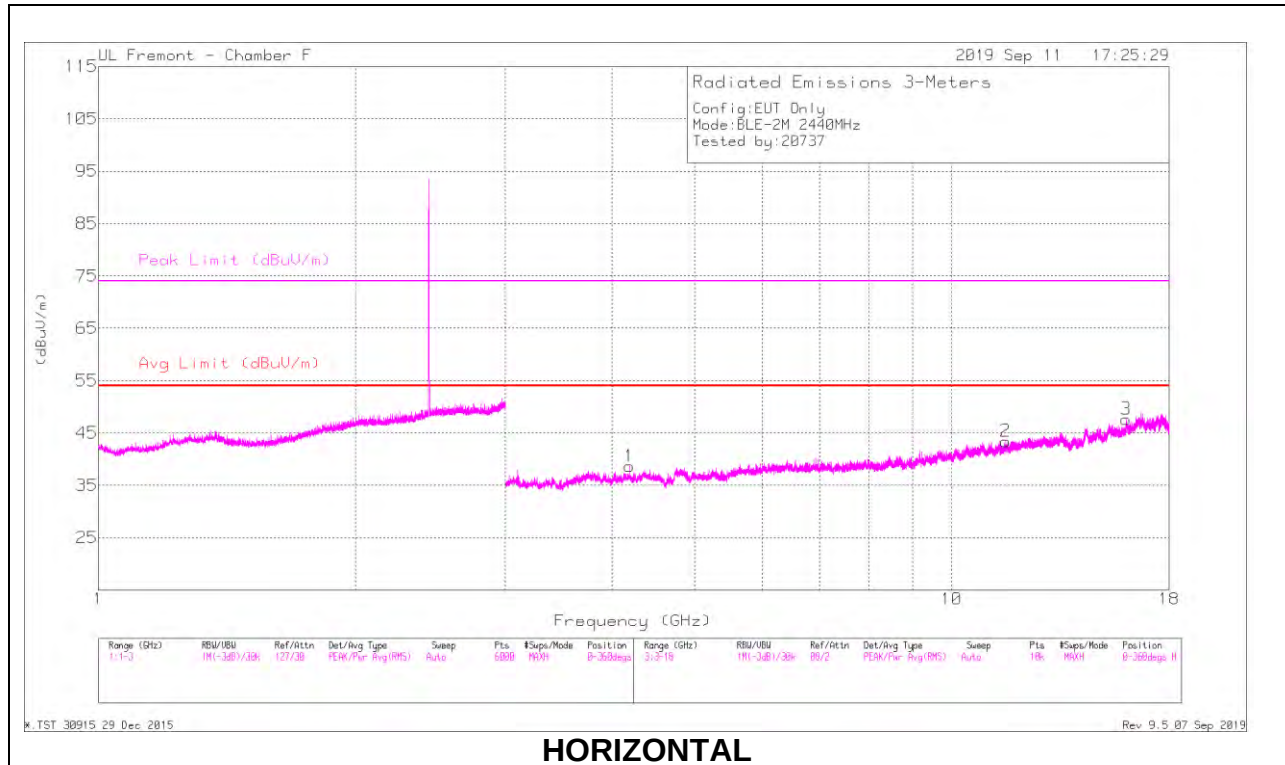
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 4.20925	54.43	PK2	33.7	-43.9	44.23	-	-	74	-29.77	51	122	H
	* 4.20785	42.85	MAv1	33.7	-43.9	32.65	54	-21.35	-	-	51	122	H
2	* 12.32236	50.55	PK2	39.1	-38.8	50.85	-	-	74	-23.15	289	158	H
	* 12.32355	39.48	MAv1	39.1	-38.8	39.78	54	-14.22	-	-	289	158	H
3	* 16.03741	50.54	PK2	40.8	-37.1	54.24	-	-	74	-19.76	239	147	H
	* 16.03845	39.86	MAv1	40.8	-37.1	43.56	54	-10.44	-	-	239	147	H
4	* 4.76786	54.04	PK2	34.1	-44.2	43.94	-	-	74	-30.06	203	282	V
	* 4.76574	42.87	MAv1	34.1	-44.2	32.77	54	-21.23	-	-	203	282	V
5	* 11.3869	50.18	PK2	38	-38	50.18	-	-	74	-23.82	282	165	V
	* 11.3859	38.56	MAv1	38	-38	38.56	54	-15.44	-	-	282	165	V
6	* 16.05578	51.43	PK2	40.8	-37.5	54.73	-	-	74	-19.27	128	171	V
	* 16.05648	39.93	MAv1	40.8	-37.6	43.13	54	-10.87	-	-	128	171	V

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

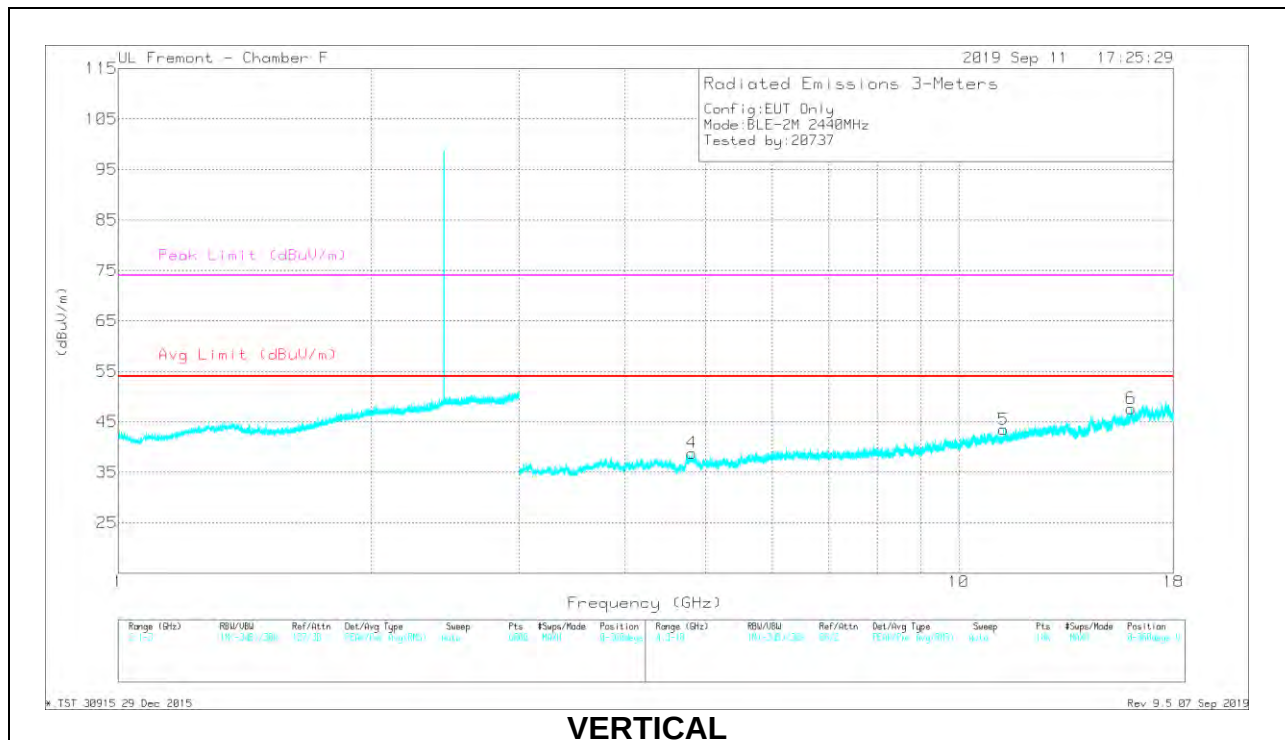
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

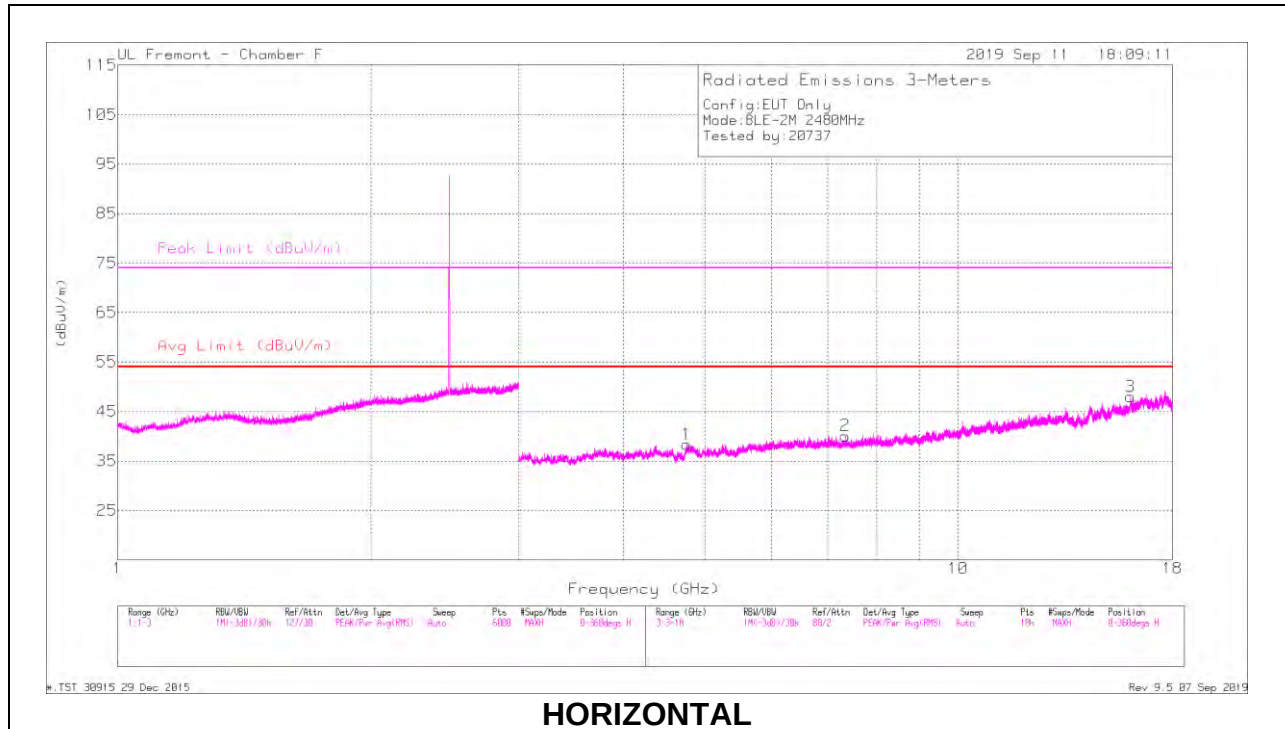
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 4.19047	55.01	PK2	33.7	-44.1	44.61	-	-	74	-29.39	196	248	H
	* 4.18976	43.49	MAv1	33.6	-44.1	32.99	54	-21.01	-	-	196	248	H
2	* 11.57263	49.88	PK2	38.3	-38.8	49.38	-	-	74	-24.62	157	247	H
	* 11.57236	39.18	MAv1	38.3	-38.8	38.68	54	-15.32	-	-	157	247	H
3	* 16.03016	50.62	PK2	40.8	-37.2	54.22	-	-	74	-19.78	157	157	H
	* 16.02919	39.82	MAv1	40.8	-37.2	43.42	54	-10.58	-	-	157	157	H
4	* 4.81082	54.82	PK2	34.2	-44.2	44.82	-	-	74	-29.18	210	146	V
	* 4.81065	43.55	MAv1	34.2	-44.2	33.55	54	-20.45	-	-	210	146	V
5	* 11.30205	49.34	PK2	38	-38.5	48.84	-	-	74	-25.16	319	195	V
	* 11.29998	38.53	MAv1	38.1	-38.6	38.03	54	-15.97	-	-	319	195	V
6	* 16.03611	50.43	PK2	40.8	-37.1	54.13	-	-	74	-19.87	239	163	V
	* 16.03599	39.67	MAv1	40.8	-37.1	43.37	54	-10.63	-	-	239	163	V

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

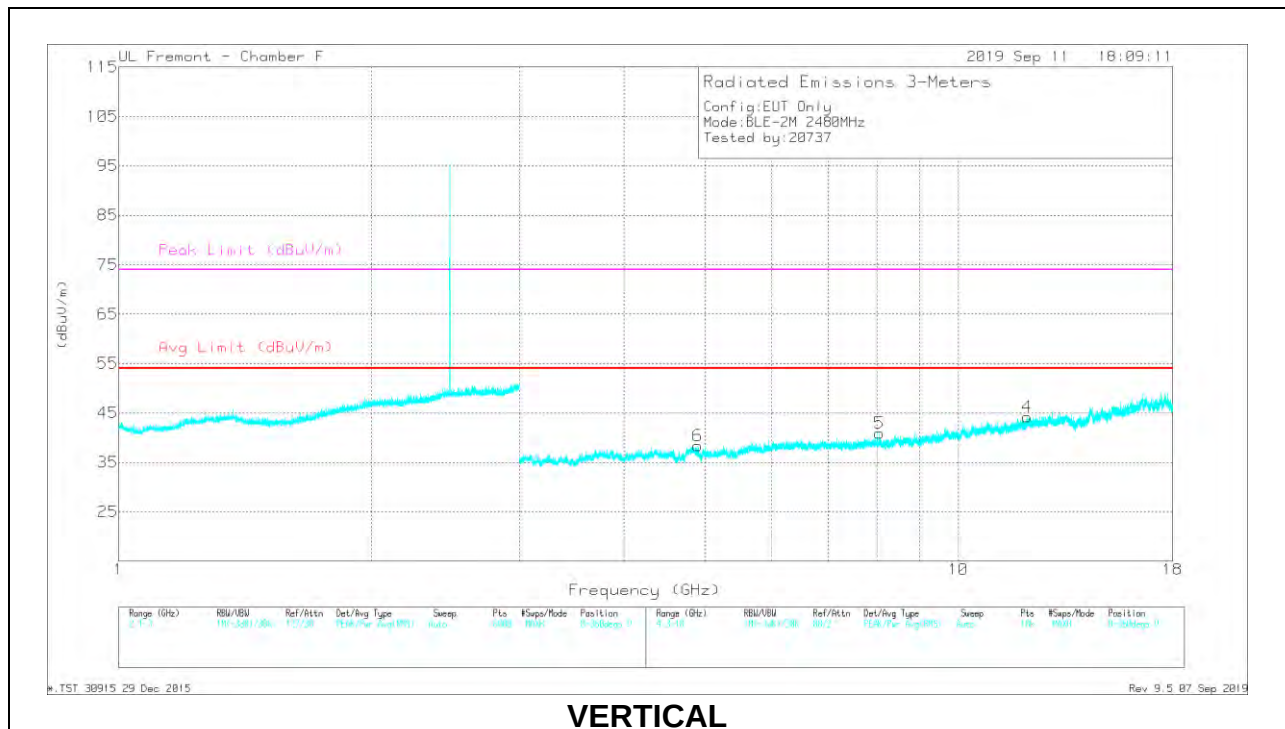
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



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	* 4.75436	54.79	PK2	34.1	-44.2	44.69	-	-	74	-29.31	306	231	H
	* 4.75552	43.38	MAv1	34.1	-44.1	33.38	54	-20.62	-	-	306	231	H
2	* 7.3463	50.56	PK2	35.6	-40.2	45.96	-	-	74	-28.04	258	149	H
	* 7.34598	39.62	MAv1	35.6	-40.2	35.02	54	-18.98	-	-	258	149	H
3	* 16.03823	50.43	PK2	40.8	-37	54.23	-	-	74	-19.77	196	219	H
	* 16.0388	39.81	MAv1	40.8	-37.1	43.51	54	-10.49	-	-	196	219	H
4	* 12.08858	50.27	PK2	38.9	-38.9	50.27	-	-	74	-23.73	155	194	V
	* 12.08907	39.32	MAv1	38.9	-38.9	39.32	54	-14.68	-	-	155	194	V
5	* 8.05271	50.62	PK2	35.9	-39.5	47.02	-	-	74	-26.98	210	201	V
	* 8.05372	39.12	MAv1	35.9	-39.4	35.62	54	-18.38	-	-	210	201	V
6	* 4.90075	53.47	PK2	34	-43.5	43.97	-	-	74	-30.03	274	301	V
	* 4.89891	42.52	MAv1	34	-43.4	33.12	54	-20.88	-	-	274	301	V

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

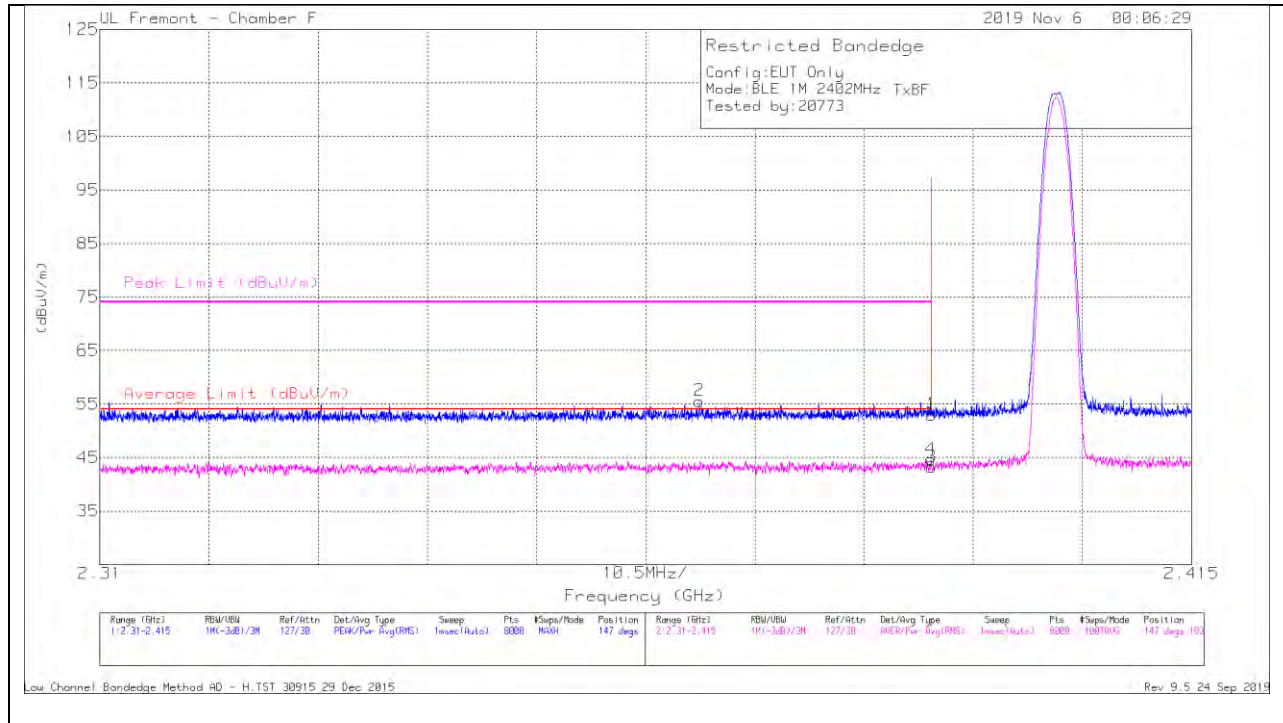
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.5. BEAMFORMING, HIGH POWER BLE (1Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

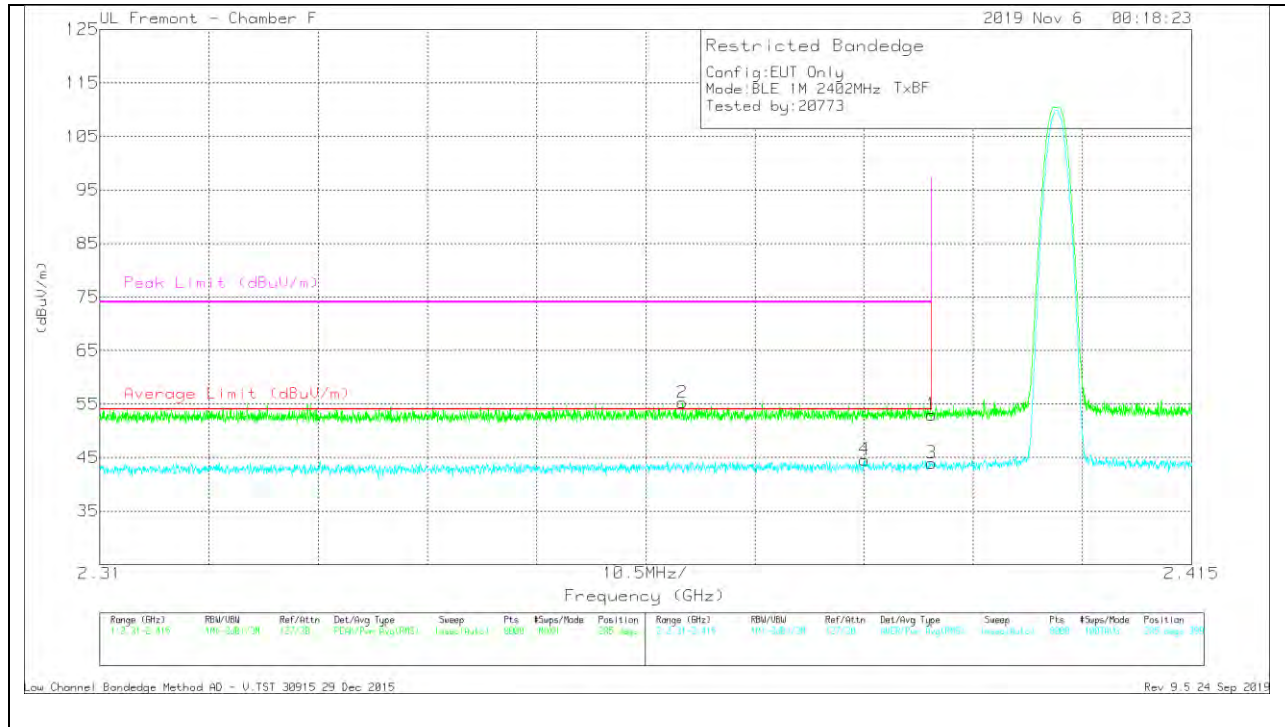


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb I/Filtr/Pa d (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	57.41	Pk	32	-36.4	53.01	-	-	74	-20.99	147	103	H
2	* 2.36765	60.16	Pk	31.8	-36.4	55.56	-	-	74	-18.44	147	103	H
3	* 2.39	47.59	RMS	32	-36.4	43.19	54	-10.81	-	-	147	103	H
4	* 2.38993	49.07	RMS	32	-36.4	44.67	54	-9.33	-	-	147	103	H

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

Low Channel Bandedge Method AD - H.TST 30915 29 Dec 2015
Rev 9.5 24 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	* 2.39	57.4	Pk	32	-36.4	53	-	-	74	-21	285	399	V
2	* 2.36604	59.85	Pk	31.8	-36.4	55.25	-	-	74	-18.75	285	399	V
3	* 2.39	48.36	RMS	32	-36.4	43.96	54	-10.04	-	-	285	399	V
4	* 2.38355	49.1	RMS	31.9	-36.4	44.6	54	-9.4	-	-	285	399	V

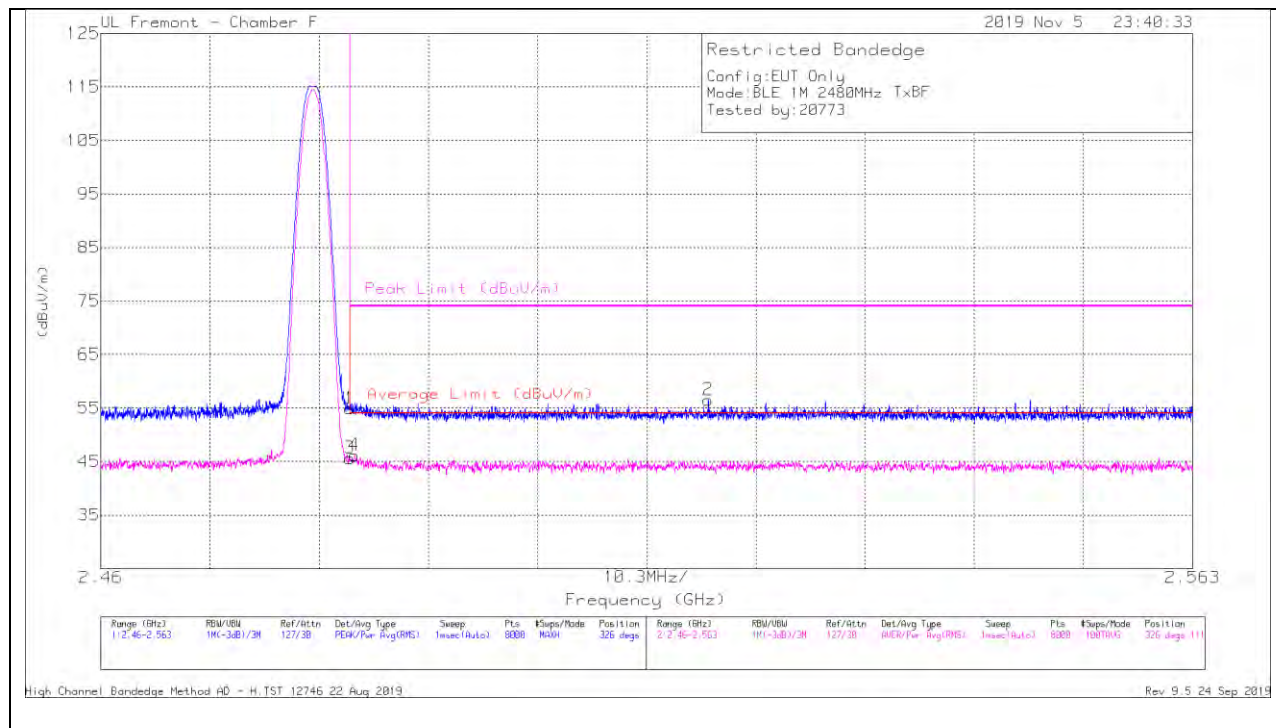
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 29 Dec 2015

Rev 9.5 24 Sep 2019

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	58.71	Pk	32.4	-36.2	54.91	-	-	74	-19.09	326	111	H
2	2.5173	60.32	Pk	32.4	-36.2	56.52	-	-	74	-17.48	326	111	H
3	* 2.4835	49.41	RMS	32.4	-36.2	45.61	54	-8.39	-	-	326	111	H
4	* 2.48393	49.94	RMS	32.4	-36.2	46.14	54	-7.86	-	-	326	111	H

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

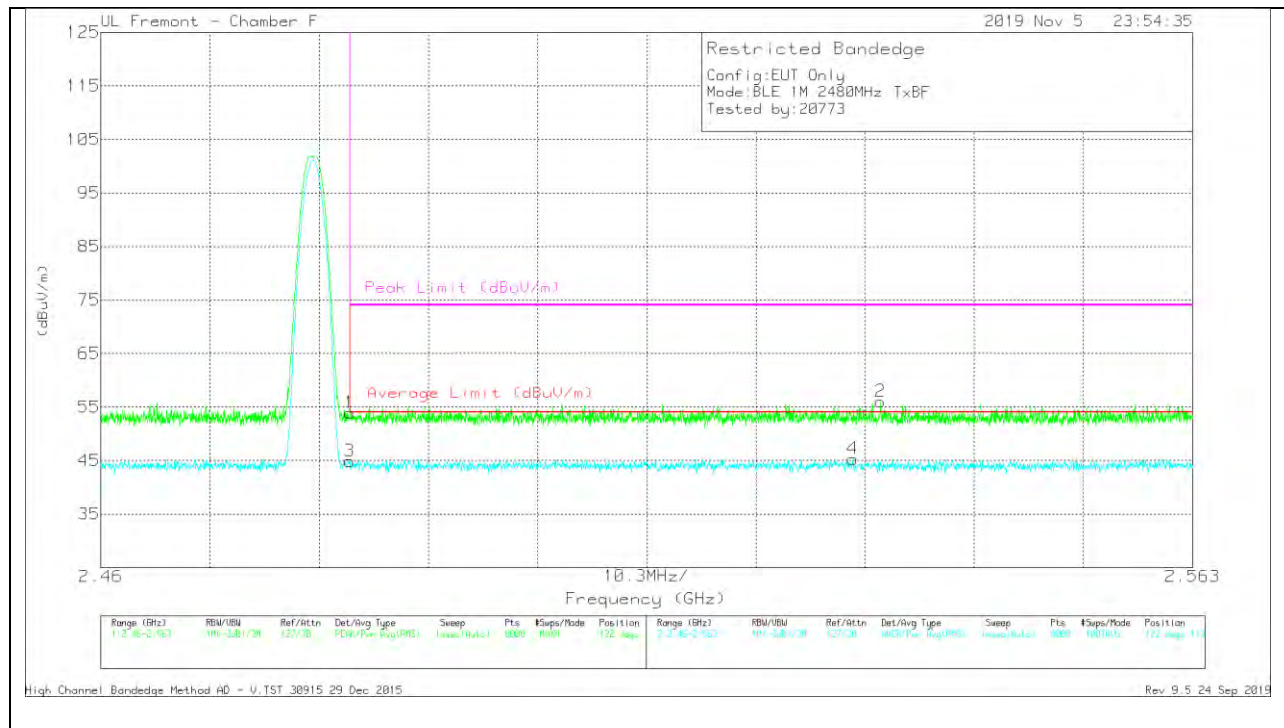
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - H.TST 12746 22 Aug 2019

Rev 9.5 24 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	57.7	Pk	32.4	-36.2	53.9	-	-	74	-20.1	122	113	V
2	2.53355	59.9	Pk	32.3	-36.2	56	-	-	74	-18	122	113	V
3	* 2.4835	48.68	RMS	32.4	-36.2	44.88	54	-9.12	-	-	122	113	V
4	2.53094	48.99	RMS	32.4	-36.1	45.29	54	-8.71	-	-	122	113	V

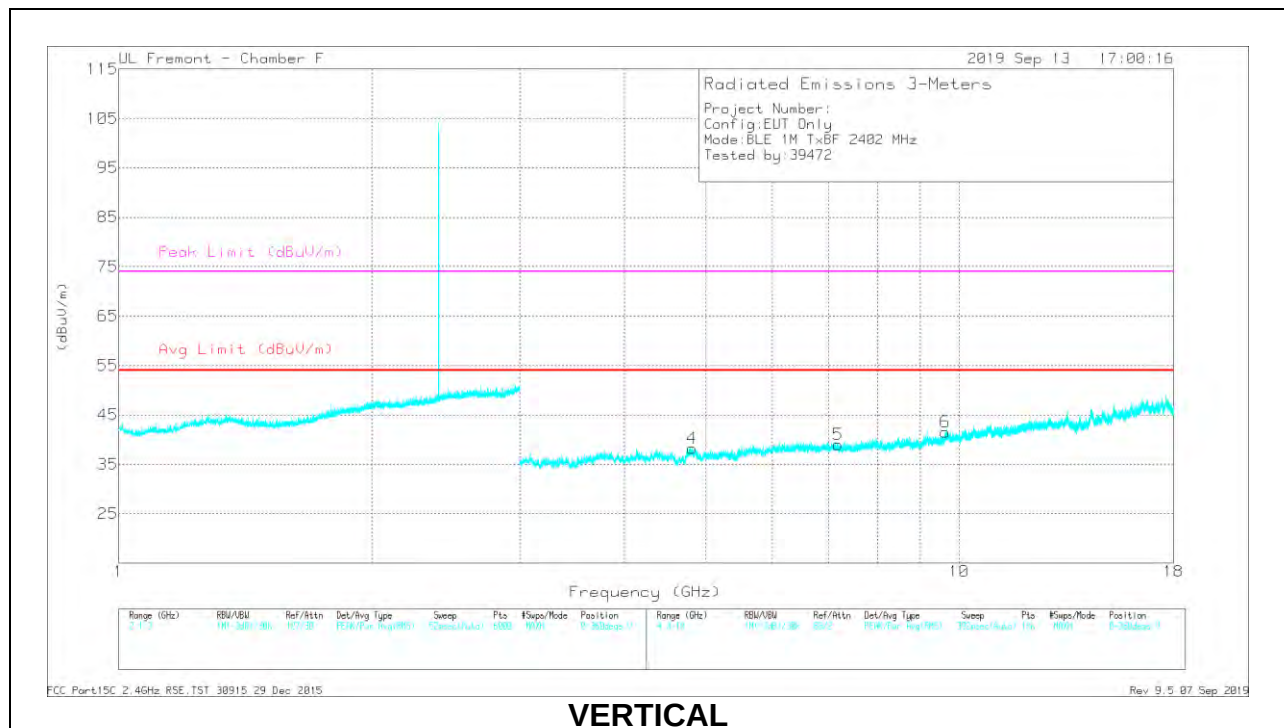
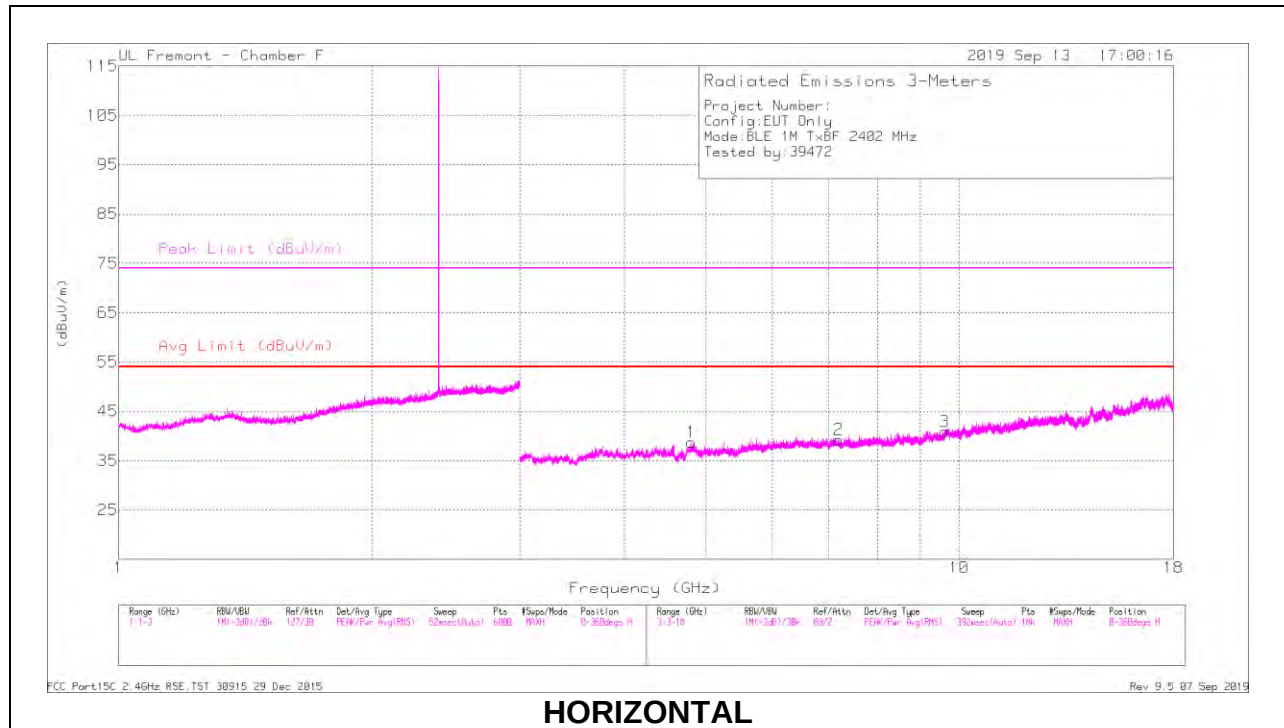
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 29 Dec 2015

Rev 9.5 24 Sep 2019

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

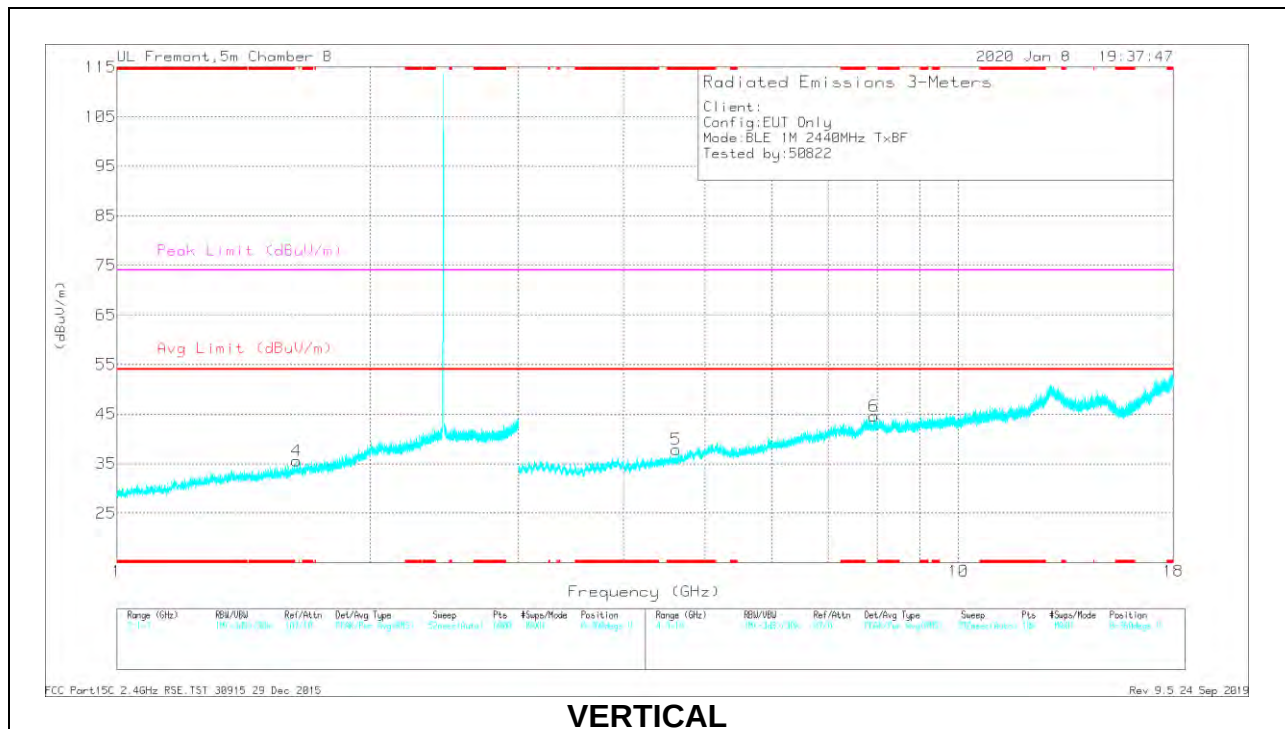
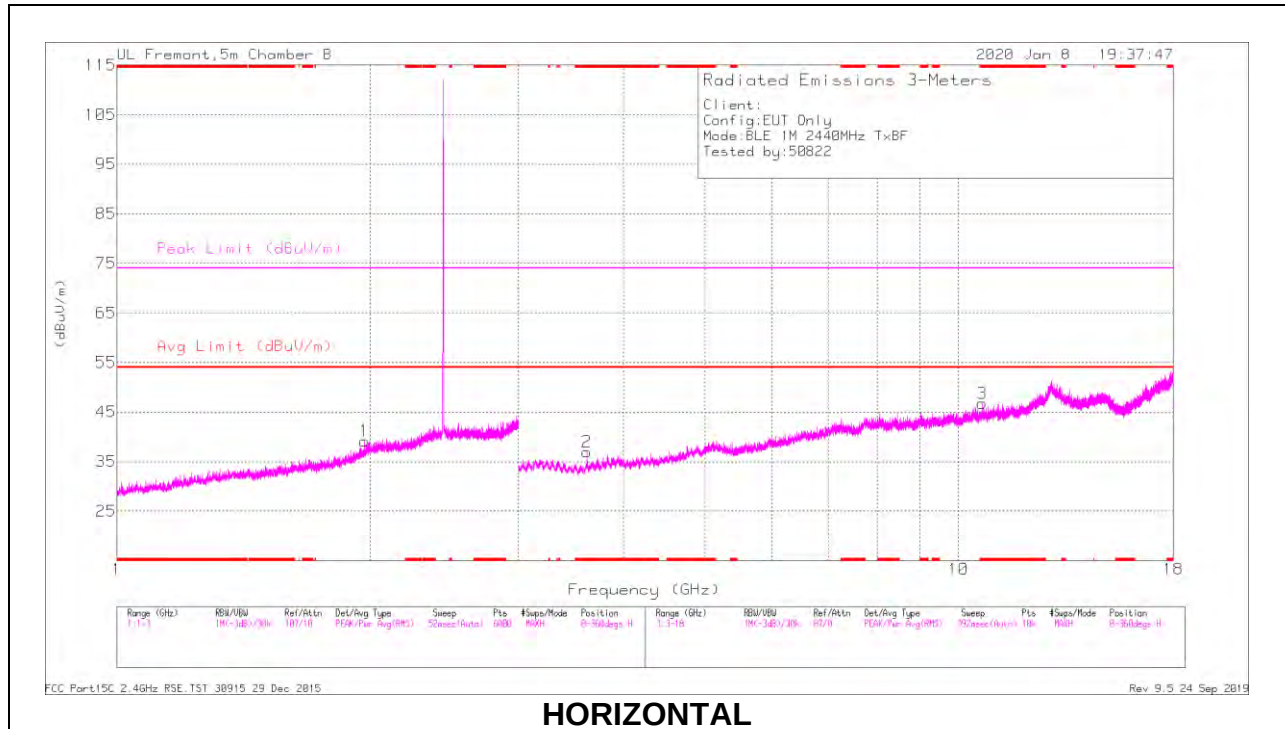
Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heigh t (cm)	Polarit y
1	* 4.80486	54.61	PK2	34.2	-44.3	44.51	-	-	74	-29.49	33	114	H
	* 4.80403	43.54	MAv1	34.2	-44.3	33.44	54	-20.56	-	-	33	114	H
2	7.20419	54.41	PK2	33.7	-44	44.11	-	-	-	-	49	188	H
3	9.60654	49.97	PK2	36.8	-39.7	47.07	-	-	-	-	28	236	H
4	* 4.80567	54.02	PK2	34.2	-44.3	43.92	-	-	74	-30.08	135	124	V
	* 4.8041	42.95	MAv1	34.2	-44.3	32.85	54	-21.15	-	-	135	124	V
5	7.20677	51.23	PK2	33.7	-44	40.93	-	-	-	-	115	123	V
6	9.60936	50.61	PK2	36.8	-39.8	47.61	-	-	-	-	95	193	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

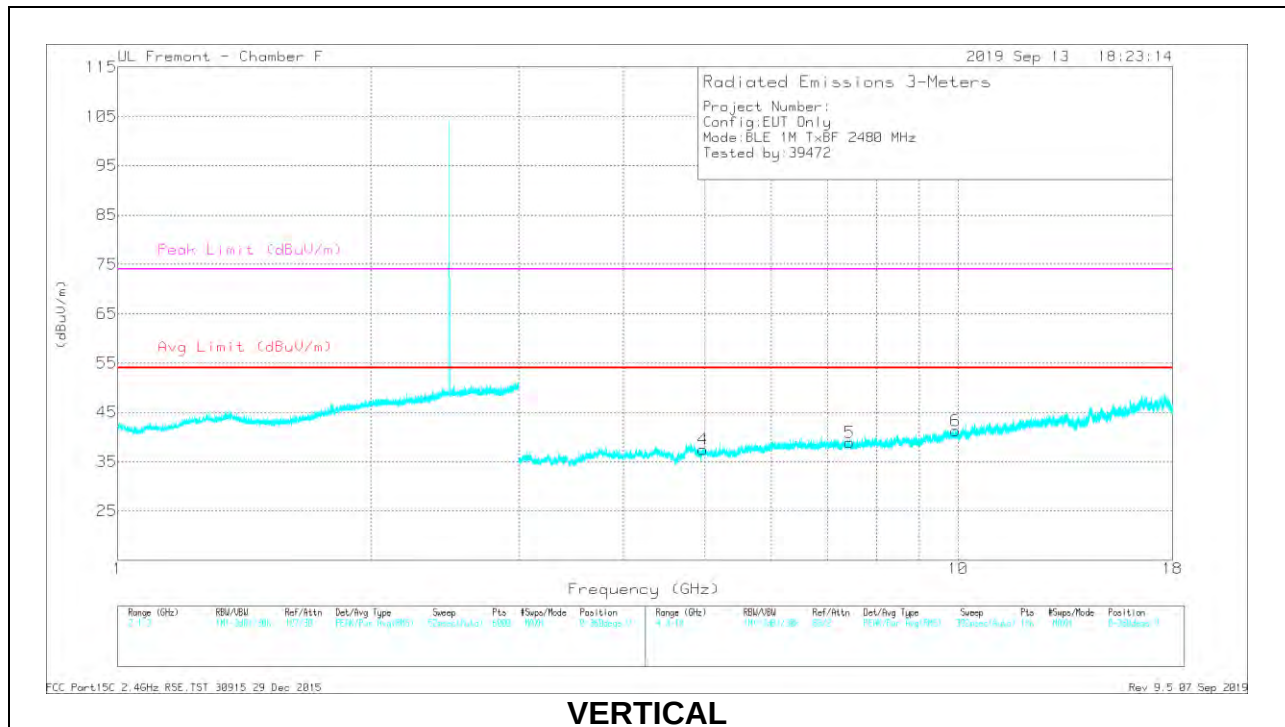
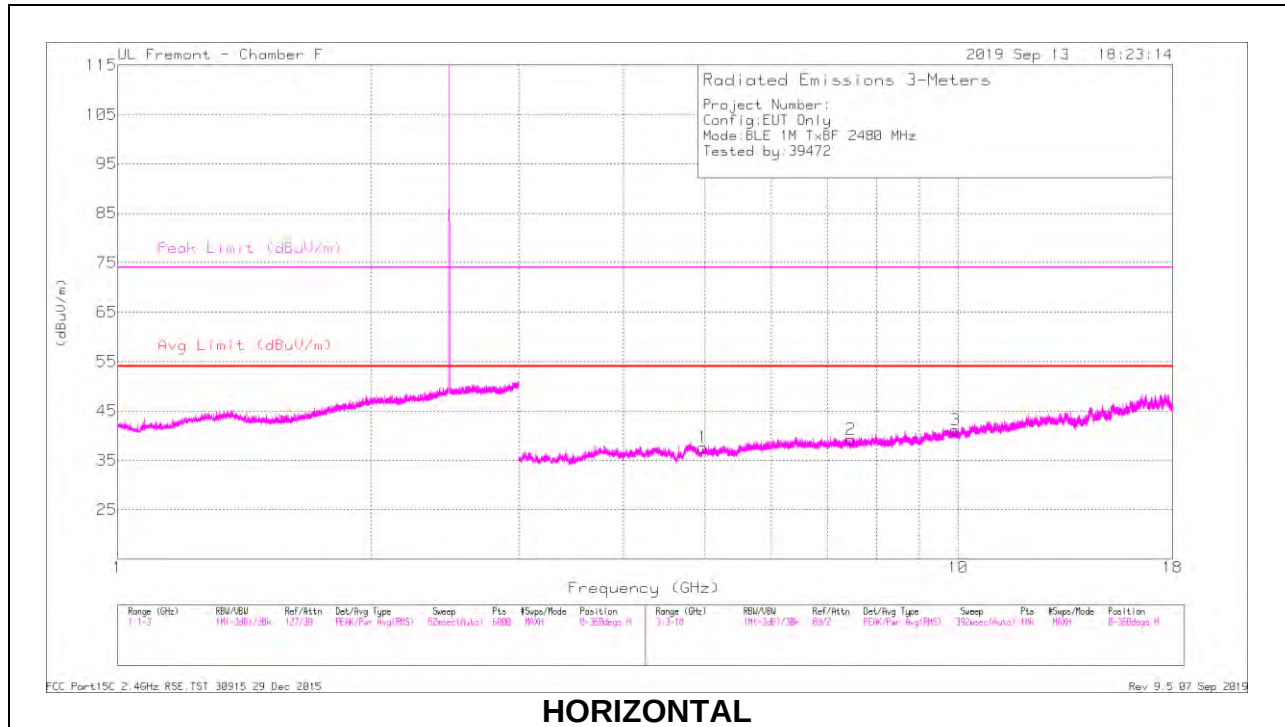
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019489 3 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.9685	36.87	PK2	28.1	-19.1	45.87	-	-	-	-	218	134	H
2	* 3.61807	38.52	PK2	30.1	-26.4	42.22	-	-	74	-31.78	245	101	H
	* 3.61798	25.98	MAv1	30.1	-26.4	29.68	54	-24.32	-	-	245	101	H
3	* 10.66086	32.93	PK2	38.5	-17.6	53.83	-	-	74	-20.17	316	154	H
	* 10.66289	18.14	MAv1	38.5	-17.6	39.04	54	-14.96	-	-	316	154	H
4	1.63455	36.41	PK2	25.3	-19.1	42.61	-	-	-	-	140	152	V
5	* 4.62042	37.74	PK2	32.3	-25.8	44.24	-	-	74	-29.76	104	299	V
	* 4.61972	25.26	MAv1	32.3	-25.8	31.76	54	-22.24	-	-	104	299	V
6	7.93265	34.34	PK2	38.1	-21.4	51.04	-	-	-	-	336	204	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	Frequen cy (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 h (Degs)	Heig ht (cm)	Polarit y
1	* 4.96074	53.96	PK2	34.1	-43.8	44.26	-	-	74	-29.74	22	118	H
	* 4.96043	43.03	MAv1	34.1	-43.8	33.33	54	-20.67	-	-	22	118	H
2	* 7.4407	50.74	PK2	35.6	-40.7	45.64	-	-	74	-28.36	57	216	H
	* 7.43838	39.8	MAv1	35.7	-40.7	34.8	54	-19.2	-	-	57	216	H
3	9.92084	51.58	PK2	36.9	-39.9	48.58	-	-	-	-	28	189	H
1	* 4.95966	54.98	PK2	34.1	-43.9	45.18	-	-	74	-28.82	109	228	V
	* 4.96053	43.45	MAv1	34.1	-43.8	33.75	54	-20.25	-	-	109	228	V
2	* 7.44054	51.71	PK2	35.6	-40.7	46.61	-	-	74	-27.39	150	207	V
	* 7.4395	40.04	MAv1	35.7	-40.7	35.04	54	-18.96	-	-	150	207	V
3	9.92087	51.61	PK2	36.9	-39.9	48.61	-	-	-	-	110	246	V

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

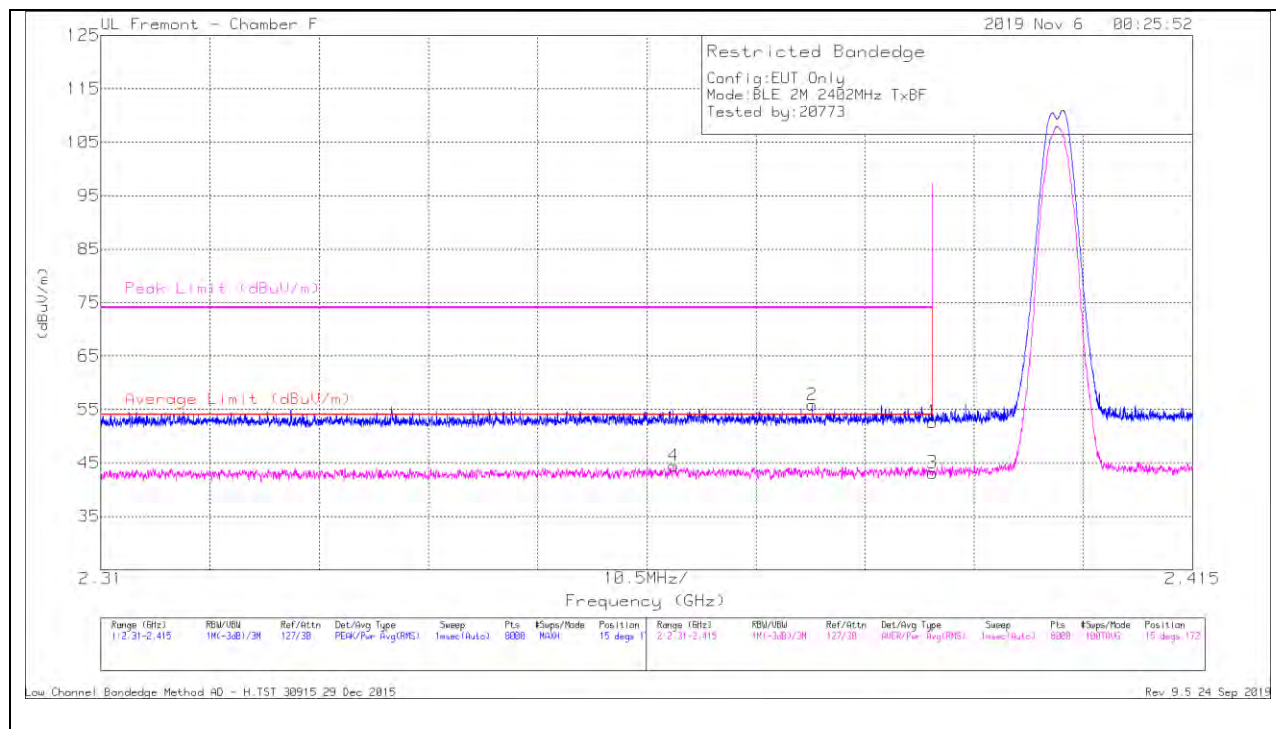
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.6. BEAMFORMING, HIGH POWER BLE (2Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	57.07	Pk	32	-36.4	52.67	-	-	74	-21.33	15	172	H
2	* 2.3784	60.46	Pk	31.9	-36.5	55.86	-	-	74	-18.14	15	172	H
3	* 2.39	47.51	RMS	32	-36.4	43.11	54	-10.89	-	-	15	172	H
4	* 2.36507	49.11	RMS	31.8	-36.5	44.41	54	-9.59	-	-	15	172	H

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

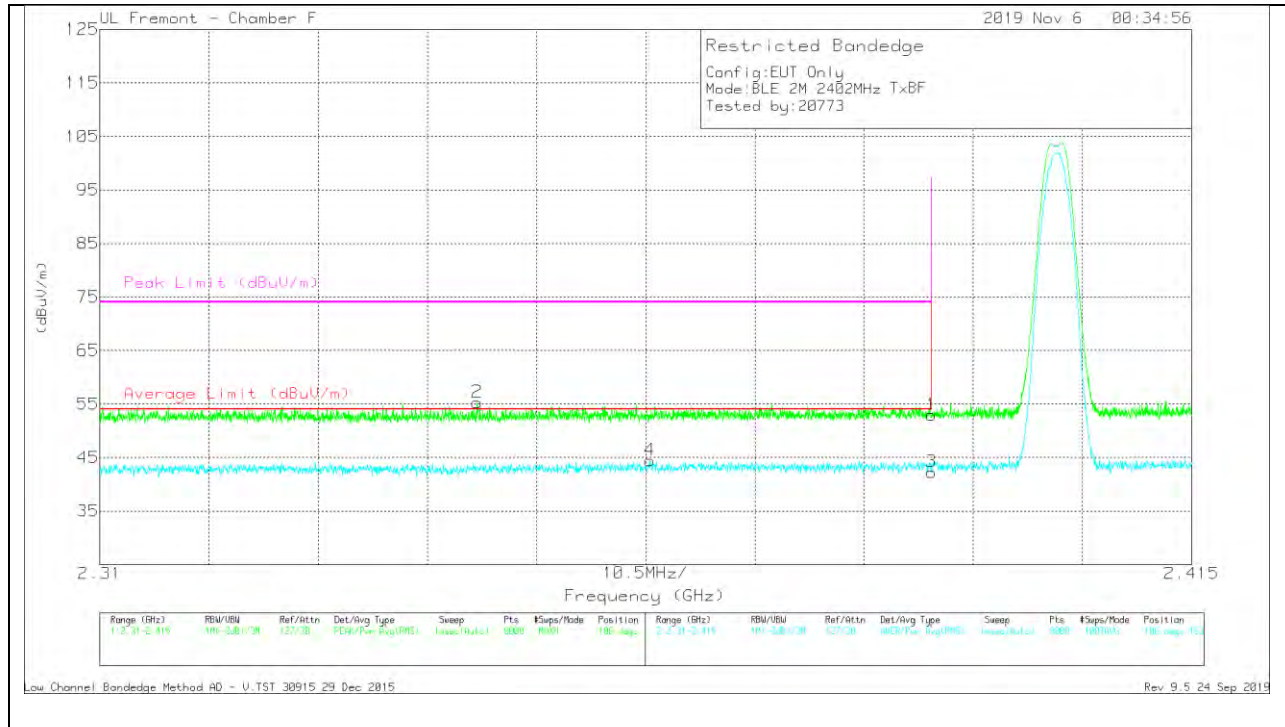
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 29 Dec 2015

Rev 9.5 24 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	57.33	Pk	32	-36.4	52.93	-	-	74	-21.07	106	163	V
2	* 2.34628	60.2	Pk	31.6	-36.5	55.3	-	-	74	-18.7	106	163	V
3	* 2.39	46.7	RMS	32	-36.4	42.3	54	-11.7	-	-	106	163	V
4	* 2.36291	49.15	RMS	31.8	-36.5	44.45	54	-9.55	-	-	106	163	V

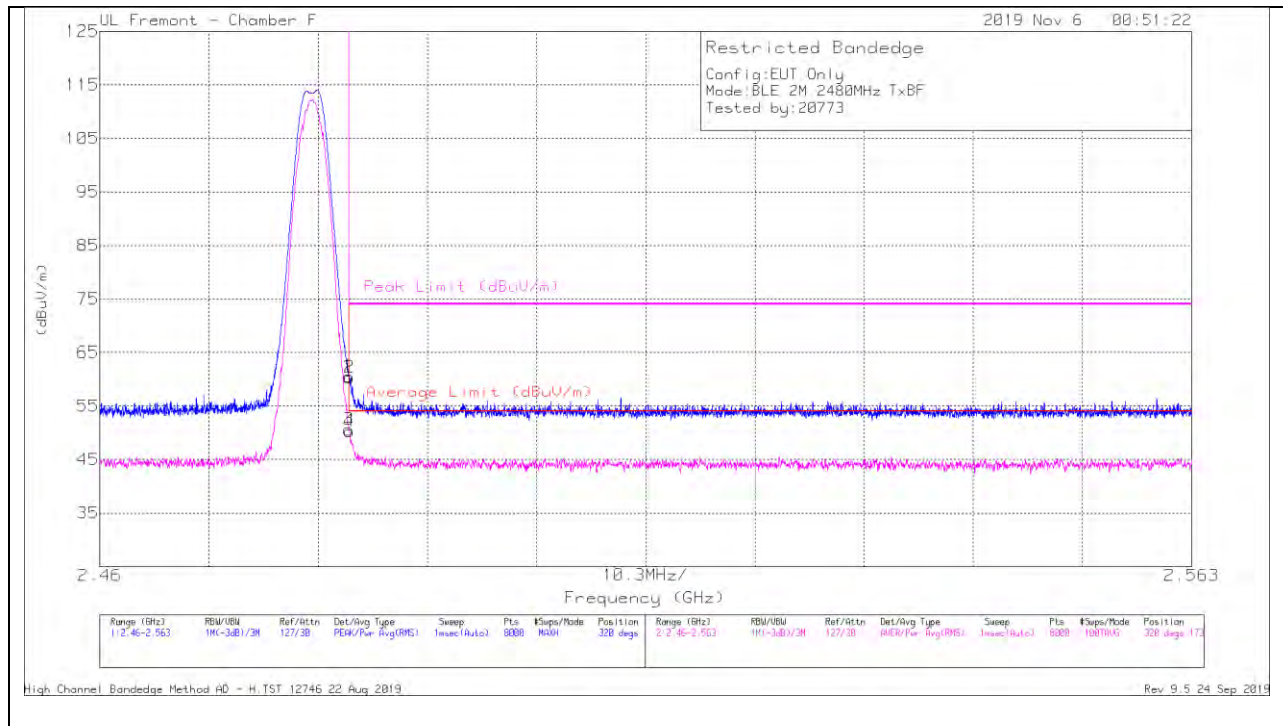
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 29 Dec 2015

Rev 9.5 24 Sep 2019

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/FiltriPad (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	64.3	Pk	32.4	-36.2	60.5	-	-	74	-13.5	320	173	H
2	* 2.4835	64.13	Pk	32.4	-36.2	60.33	-	-	74	-13.67	320	173	H
3	* 2.4835	54.39	RMS	32.4	-36.2	50.59	54	-3.41	-	-	320	173	H
4	* 2.4835	54.08	RMS	32.4	-36.2	50.28	54	-3.72	-	-	320	173	H

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

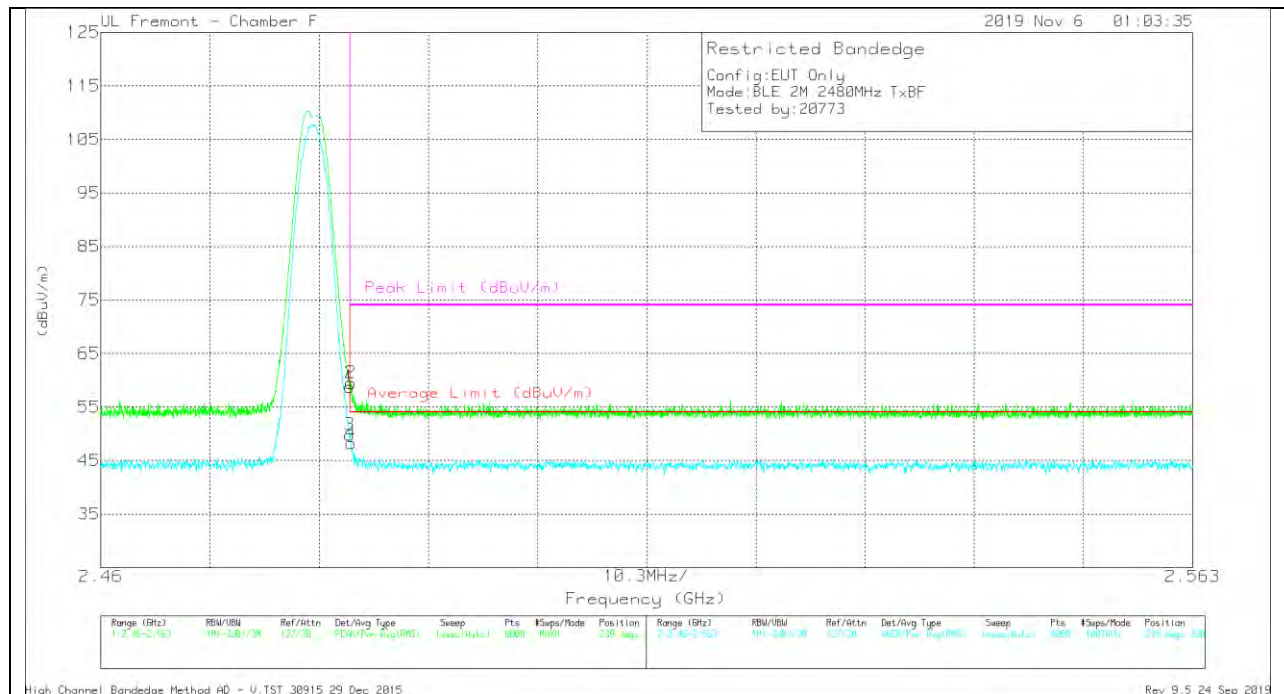
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - H.TST 12746 22 Aug 2019

Rev 9.5 24 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	* 2.4835	62.56	Pk	32.4	-36.2	58.76	-	-	74	-15.24	239	330	V
2	* 2.48358	63.29	Pk	32.4	-36.2	59.49	-	-	74	-14.51	239	330	V
3	* 2.4835	53.61	RMS	32.4	-36.2	49.81	54	-4.19	-	-	239	330	V
4	* 2.4836	52.09	RMS	32.4	-36.2	48.29	54	-5.71	-	-	239	330	V

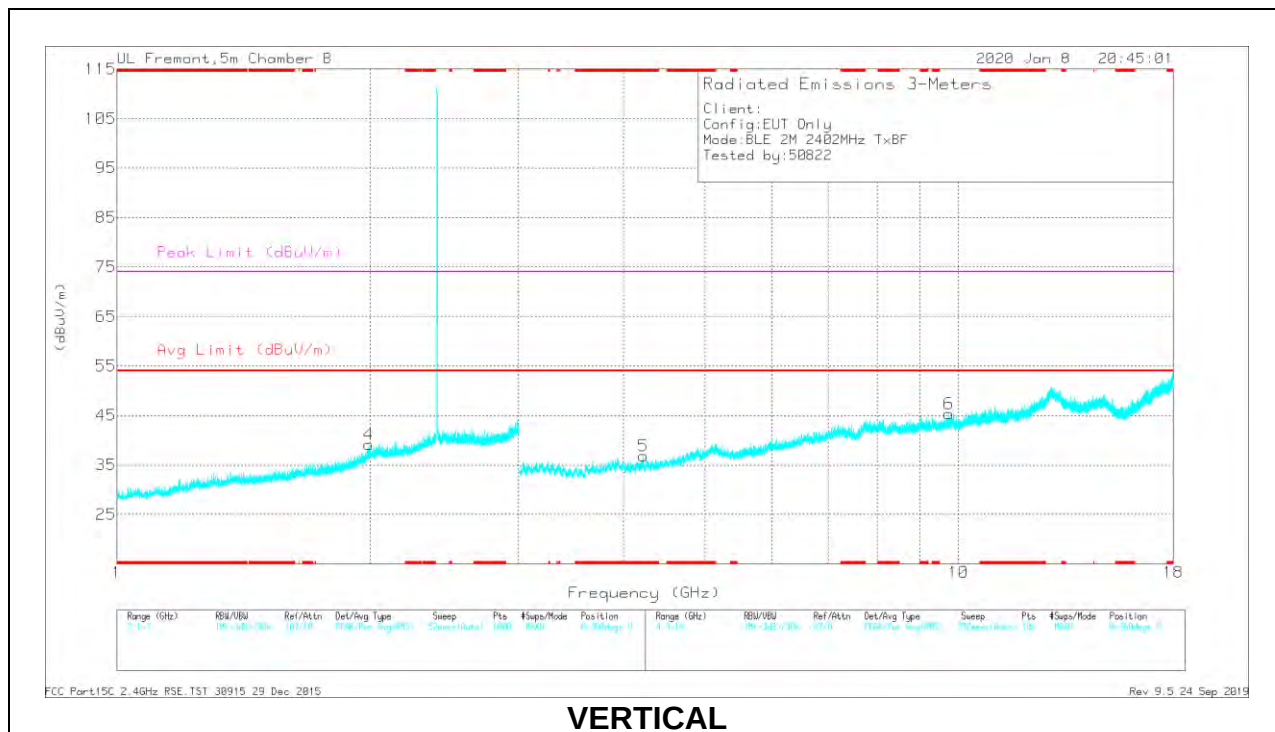
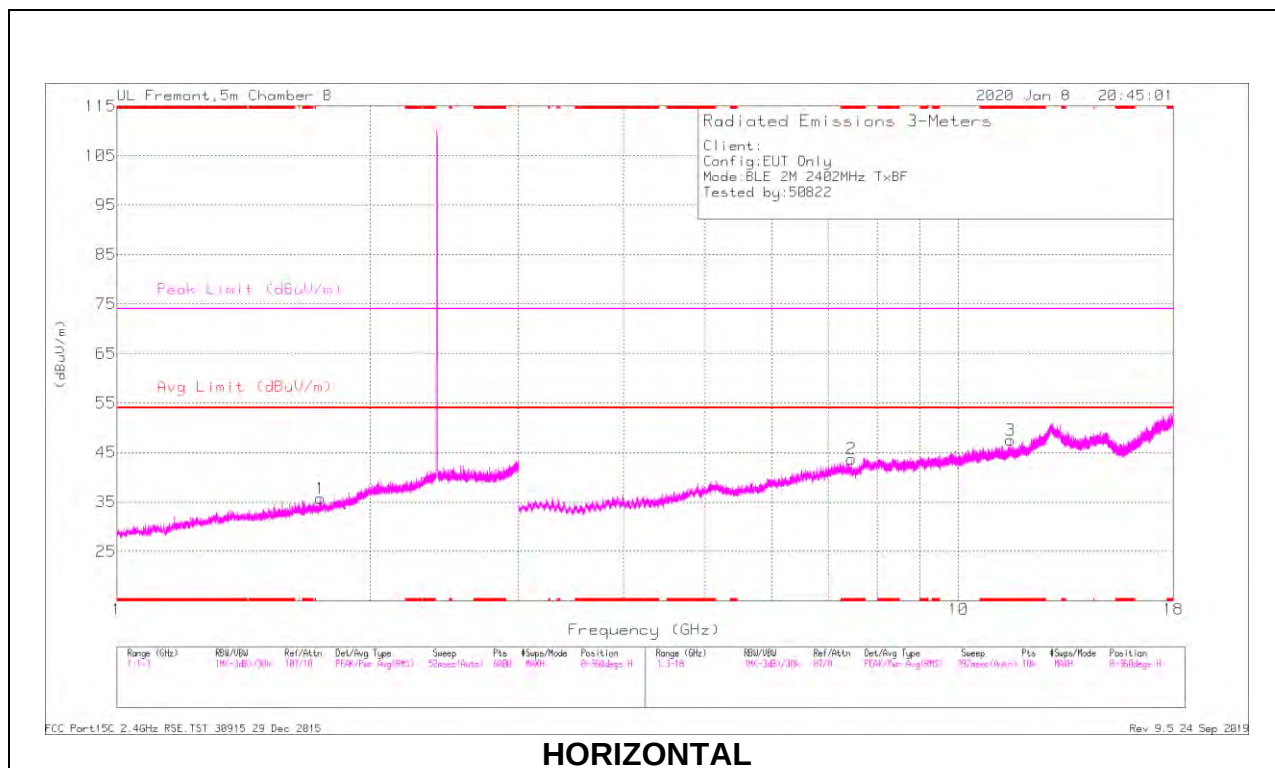
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 29 Dec 2015

Rev 9.5 24 Sep 2019

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

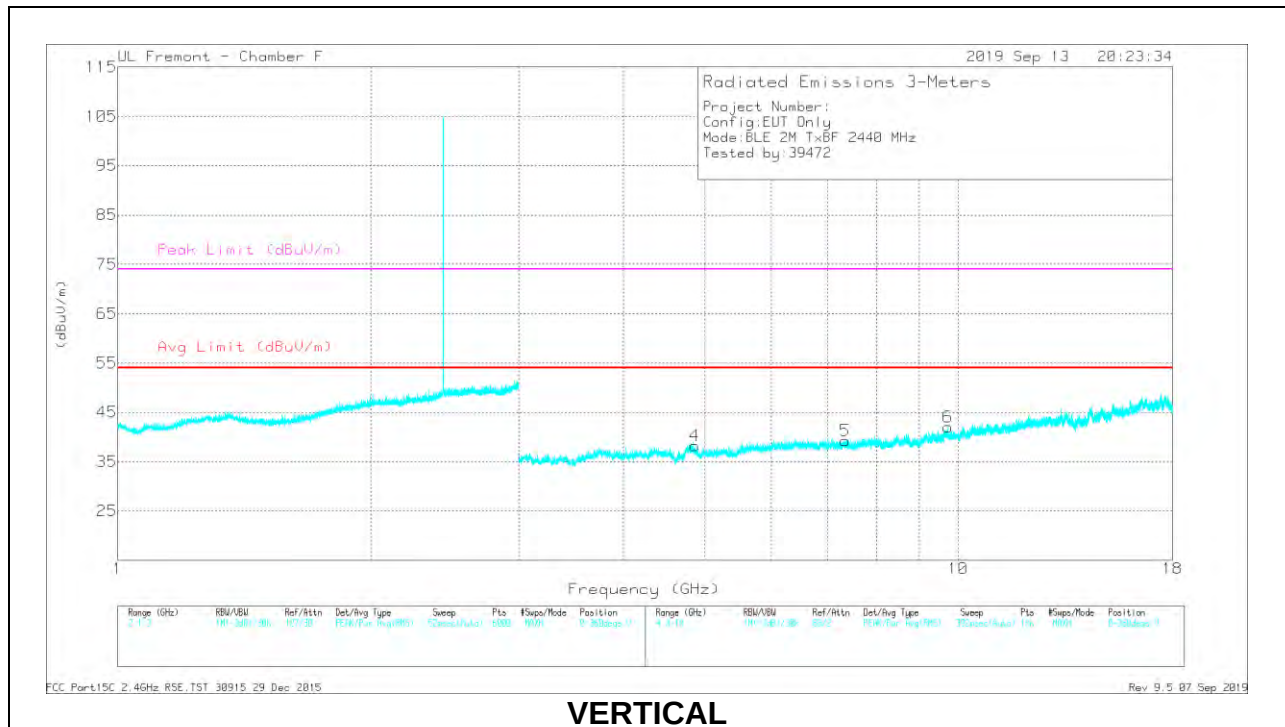
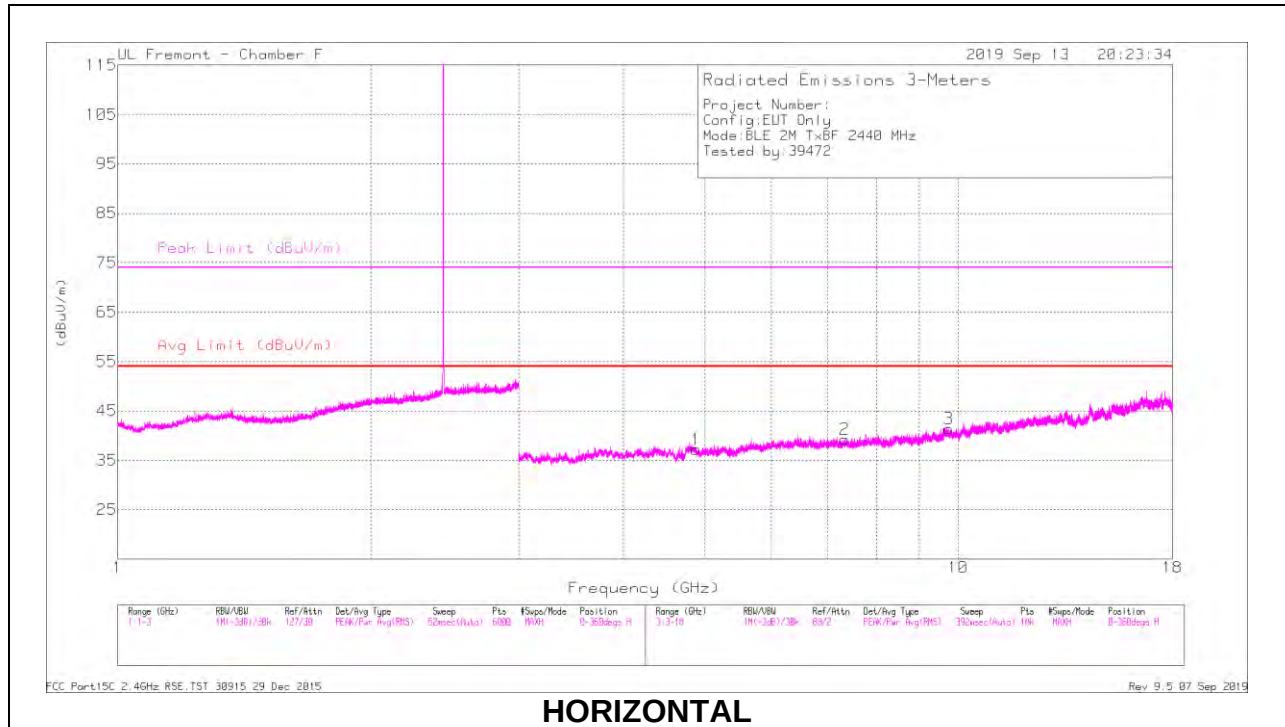
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019489 3 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.74399	37.04	PK2	25.8	-19.1	43.74	-	-	-	-	355	354	H
2	* 7.46489	34.09	PK2	37.1	-21.9	49.29	-	-	74	-24.71	138	305	H
	* 7.46426	21.5	MAv1	37.1	-21.9	36.7	54	-17.3	-	-	138	305	H
3	* 11.53366	32.5	PK2	39.1	-17.7	53.9	-	-	74	-20.1	45	320	H
	* 11.5338	18.55	MAv1	39.1	-17.7	39.95	54	-14.05	-	-	45	320	H
4	1.9941	37.36	PK2	28.5	-19	46.86	-	-	-	-	186	188	V
5	* 4.22189	36.85	PK2	31.2	-24.6	43.45	-	-	74	-30.55	215	122	V
	* 4.22273	24.35	MAv1	31.2	-24.6	30.95	54	-23.05	-	-	215	122	V
6	9.74314	33.25	PK2	37.8	-18.6	52.45	-	-	-	-	149	319	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

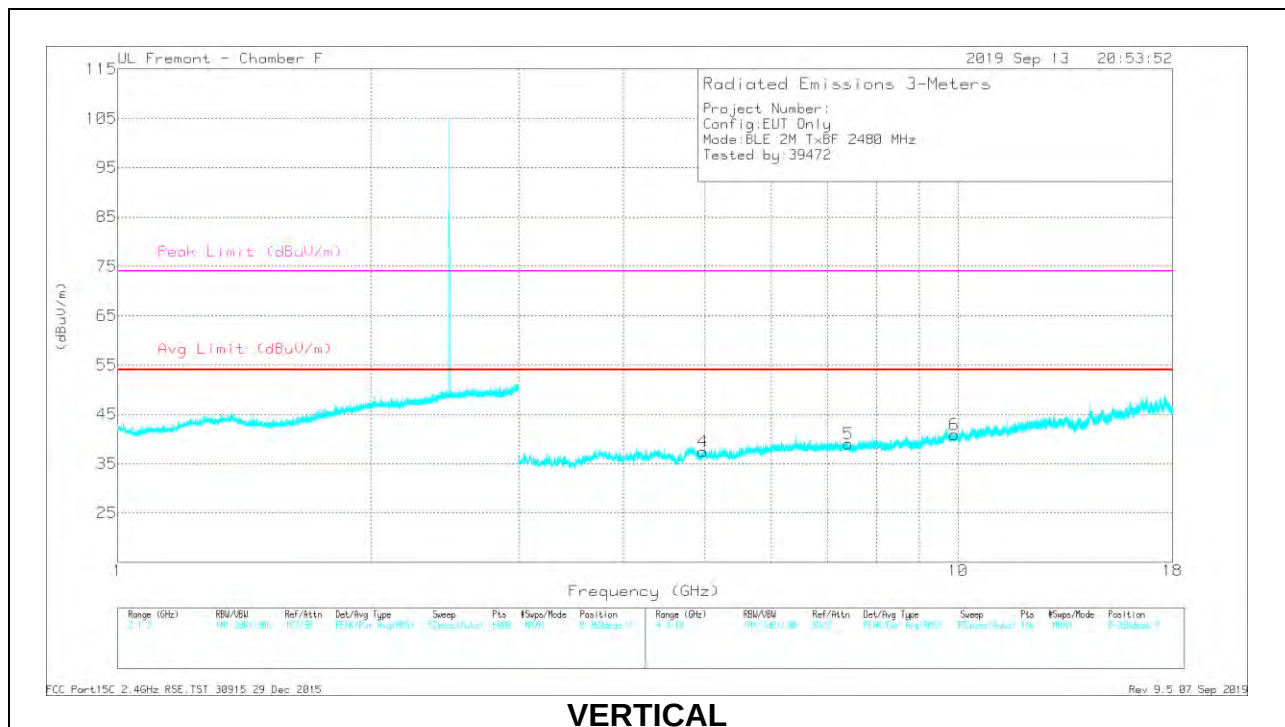
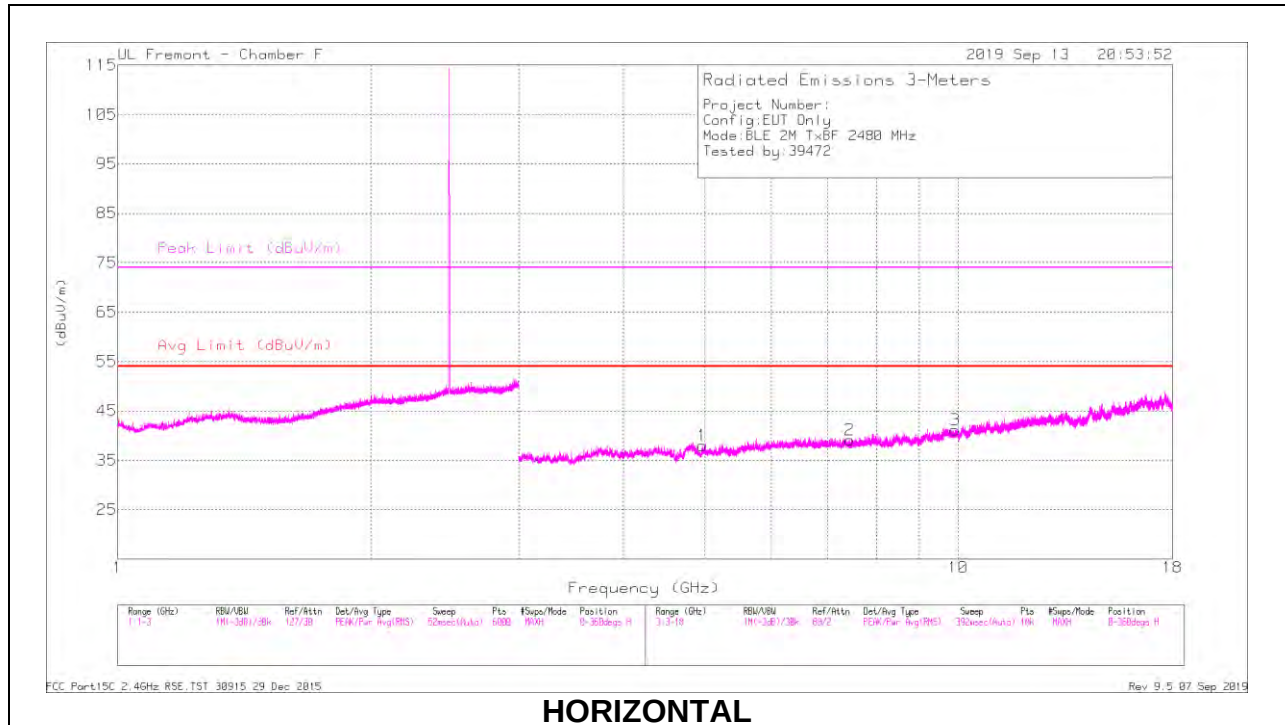
Marker	Frequen cy (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fi tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
1	* 4.88009	53.79	PK2	34.1	-43.5	44.39	-	-	74	-29.61	75	221	H
	* 4.87887	42.82	MAv1	34.1	-43.5	33.42	54	-20.58	-	-	75	221	H
2	* 7.31999	51.29	PK2	35.6	-40.3	46.59	-	-	74	-27.41	226	100	H
	* 7.31911	39.11	MAv1	35.6	-40.2	34.51	54	-19.49	-	-	226	100	H
3	9.75925	50.29	PK2	36.9	-39.9	47.29	-	-	-	-	269	140	H
4	* 4.87907	54.32	PK2	34.1	-43.5	44.92	-	-	74	-29.08	225	129	V
	* 4.87823	42.65	MAv1	34.1	-43.5	33.25	54	-20.75	-	-	225	129	V
5	* 7.3209	51.48	PK2	35.6	-40.3	46.78	-	-	74	-27.22	289	168	V
	* 7.31934	39.08	MAv1	35.6	-40.3	34.38	54	-19.62	-	-	289	168	V
6	9.76189	51.02	PK2	36.9	-39.9	48.02	-	-	-	-	236	221	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	Frequen cy (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)	Azimet h (Degs)	Heig ht (cm)	Polarit y
1	* 4.96079	54.33	PK2	34.1	-43.8	44.63	-	-	74	-29.37	310	149	H
	* 4.96144	43.04	MAv1	34.1	-43.8	33.34	54	-20.66	-	-	310	149	H
2	* 7.44028	51.51	PK2	35.6	-40.7	46.41	-	-	74	-27.59	125	181	H
	* 7.43858	39.31	MAv1	35.7	-40.7	34.31	54	-19.69	-	-	125	181	H
3	9.92154	51.18	PK2	36.9	-39.9	48.18	-	-	-	-	160	157	H
	9.92061	39.24	MAv1	36.9	-39.9	36.24	-	-	-	-	160	157	H
4	* 4.96102	54.21	PK2	34.1	-43.8	44.51	-	-	74	-29.49	310	149	V
	* 4.96089	43.00	MAv1	34.1	-43.8	33.30	54	-20.70	-	-	310	149	V
5	* 7.43836	51.55	PK2	35.7	-40.7	46.55	-	-	74	-27.45	57	252	V
	* 7.43902	39.45	MAv1	35.7	-40.7	34.45	54	-19.55	-	-	57	252	V
6	9.92024	51.15	PK2	36.9	-39.9	48.15	-	-	-	-	26	225	V
	9.91922	38.82	MAv1	36.9	-39.9	35.82	-	-	-	-	26	225	V

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

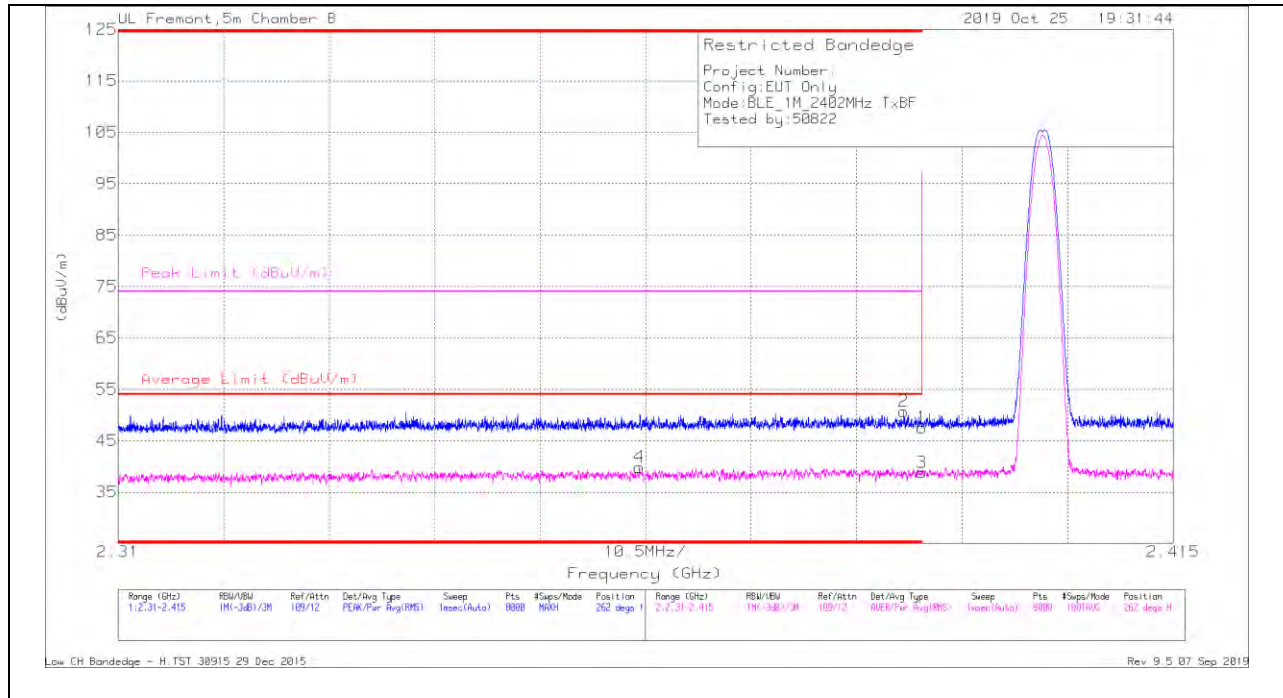
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.7. BEAMFORMING, LOW POWER BLE (1Mbps)

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	36.16	Pk	30.3	-18.9	47.56	-	-	74	-26.44	262	119	H
2	* 2.38818	39.31	Pk	30.3	-18.9	50.71	-	-	74	-23.29	262	119	H
3	* 2.39	27.41	RMS	30.3	-18.9	38.81	54	-15.19	-	-	262	119	H
4	* 2.36188	28.66	RMS	30.1	-18.9	39.86	54	-14.14	-	-	262	119	H

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

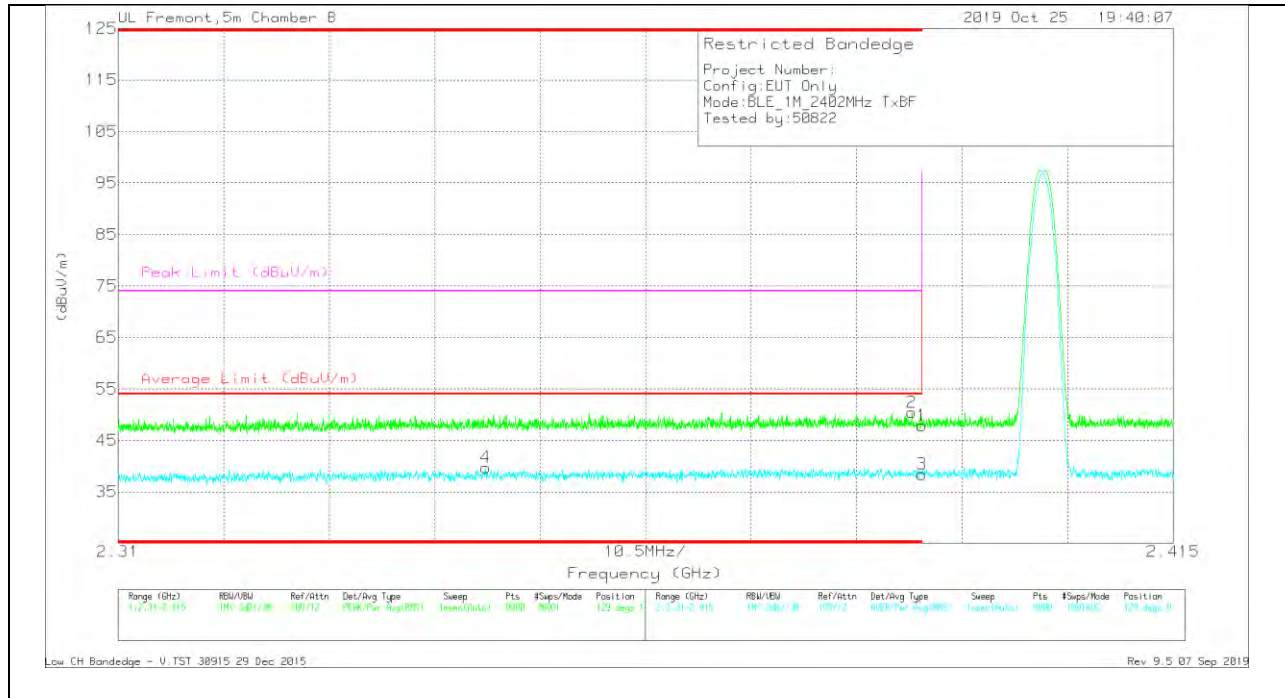
Pk - Peak detector

RMS - RMS detection

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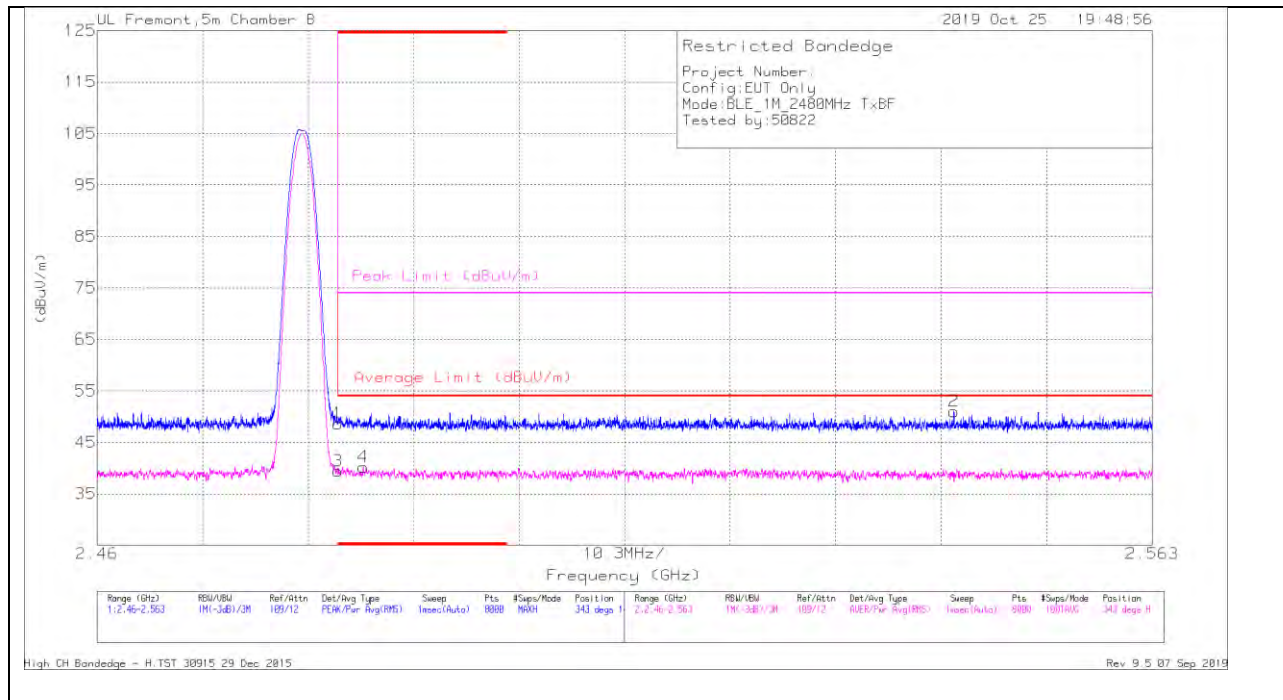
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/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
1	* 2.339	36.45	Pk	30.3	-18.9	47.85	-	-	74	-26.15	129	140	V
2	* 2.389	39.03	Pk	30.3	-18.9	50.43	-	-	74	-23.57	129	140	V
3	* 2.39	27.02	RMS	30.3	-18.9	38.42	54	-15.58	-	-	129	140	V
4	* 2.34658	28.63	RMS	30	-18.9	39.73	54	-14.27	-	-	129	140	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/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	37.38	Pk	30.2	-18.9	48.68	-	-	74	-25.32	343	145	H
3	* 2.4835	28.13	RMS	30.2	-18.9	39.43	54	-14.57	-	-	343	145	H
4	* 2.48599	28.92	RMS	30.2	-18.9	40.22	54	-13.78	-	-	343	145	H
2	2.54364	39.81	Pk	30.1	-18.9	51.01	-	-	74	-22.99	343	145	H

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

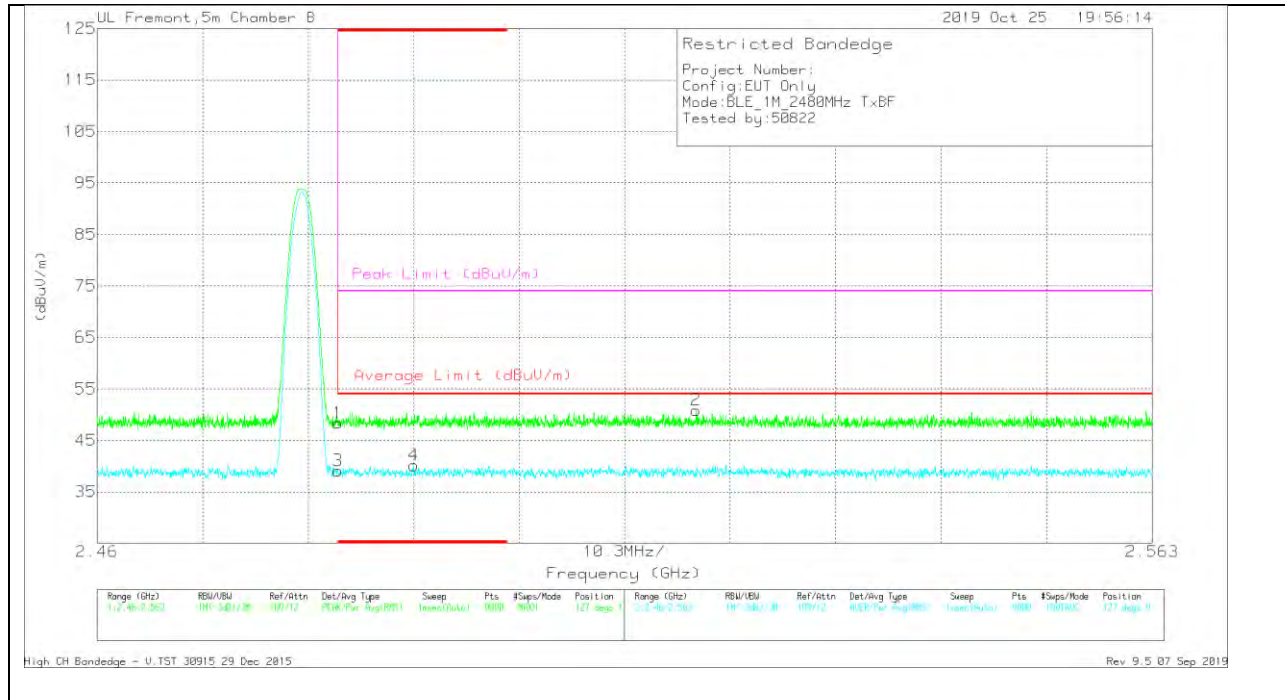
Pk - Peak detector

RMS - RMS detection

High CH Bandedge - H.TST 30915 29 Dec 2015

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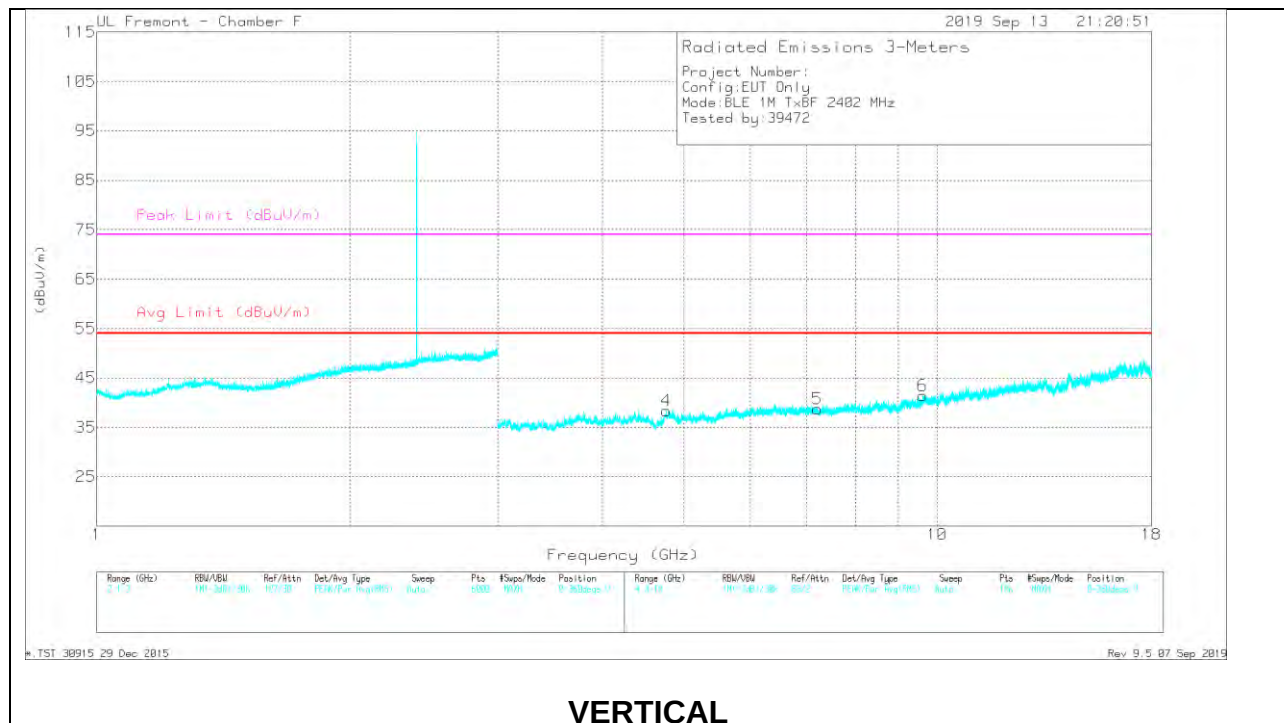
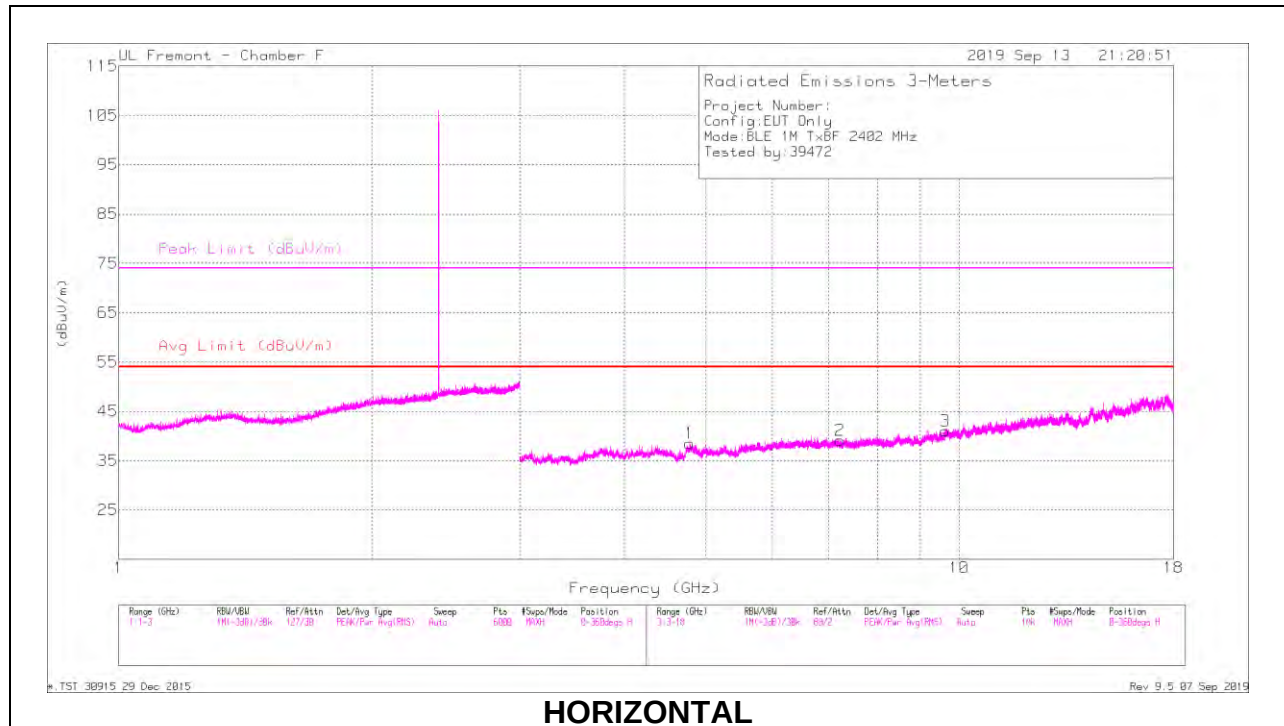
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/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
1	*2.4835	37.06	Pk	30.2	-18.9	48.36	-	-	74	-25.64	127	117	V
3	*2.4835	27.81	RMS	30.2	-18.9	39.11	54	-14.89	-	-	127	117	V
4	*2.4909	28.95	RMS	30.1	-18.9	40.15	54	-13.85	-	-	127	117	V
2	2.51847	39.68	Pk	30.1	-18.9	50.88	-	-	74	-23.12	127	117	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

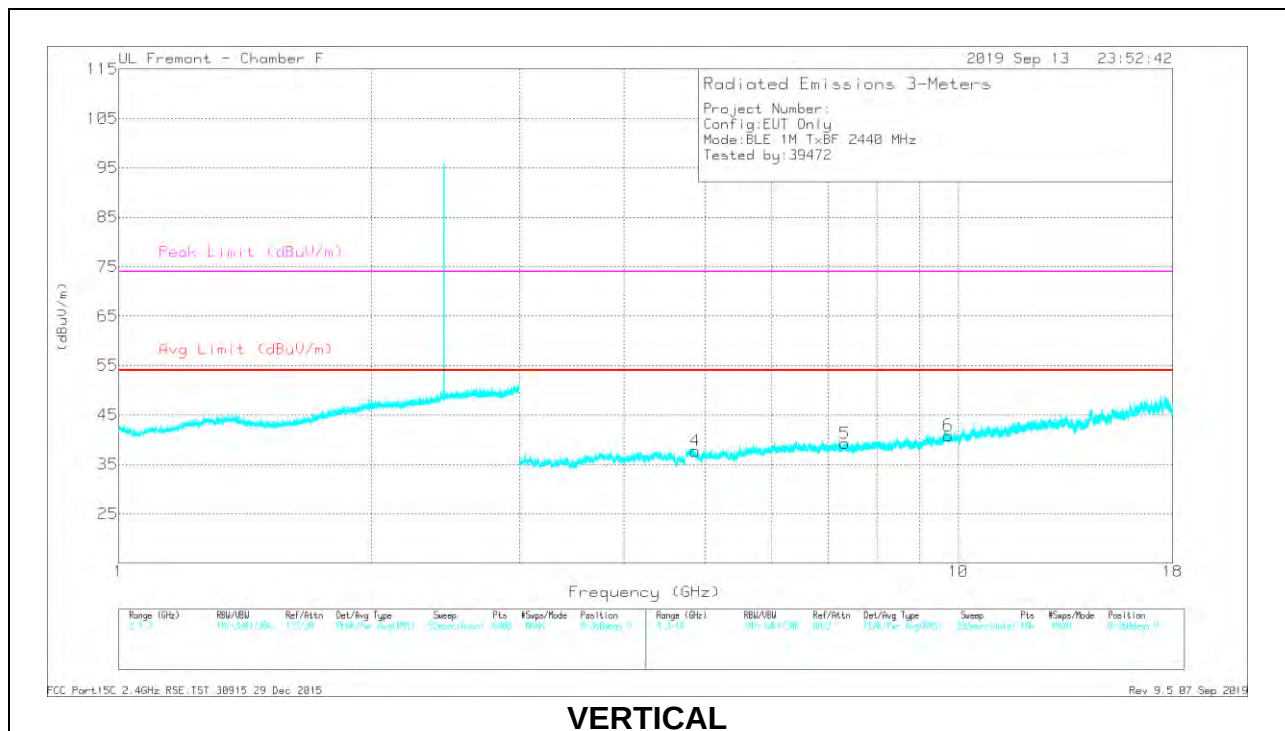
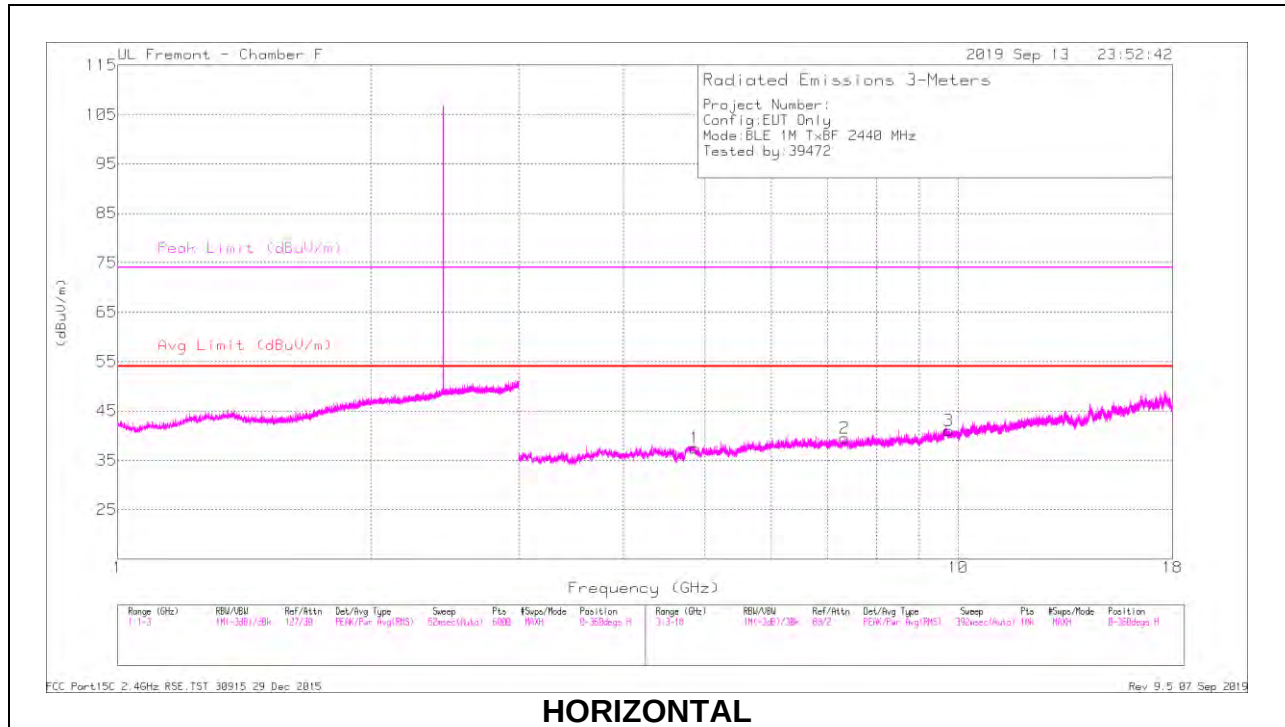
Markers	Frequen cy (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fi tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimet h (Degs)	Heig ht (cm)	Polarit y
1	* 4.80202	54.24	PK2	34.2	-44.3	44.14	-	-	74	-29.86	348	202	H
	* 4.80405	42.25	MAv1	34.2	-44.3	32.15	54	-21.85	-	-	348	202	H
2	7.20507	51.42	PK2	35.5	-41	45.92	-	-	-	-	295	225	H
3	9.60767	50.31	PK2	36.8	-39.8	47.31	-	-	-	-	263	182	H
4	* 4.80304	53.96	PK2	34.2	-44.3	43.86	-	-	74	-30.14	176	217	V
	* 4.80419	42.29	MAv1	34.2	-44.3	32.19	54	-21.81	-	-	176	217	V
5	7.20591	51.24	PK2	35.5	-41	45.74	-	-	-	-	118	100	V
6	9.60608	50.68	PK2	36.8	-39.7	47.78	-	-	-	-	192	245	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

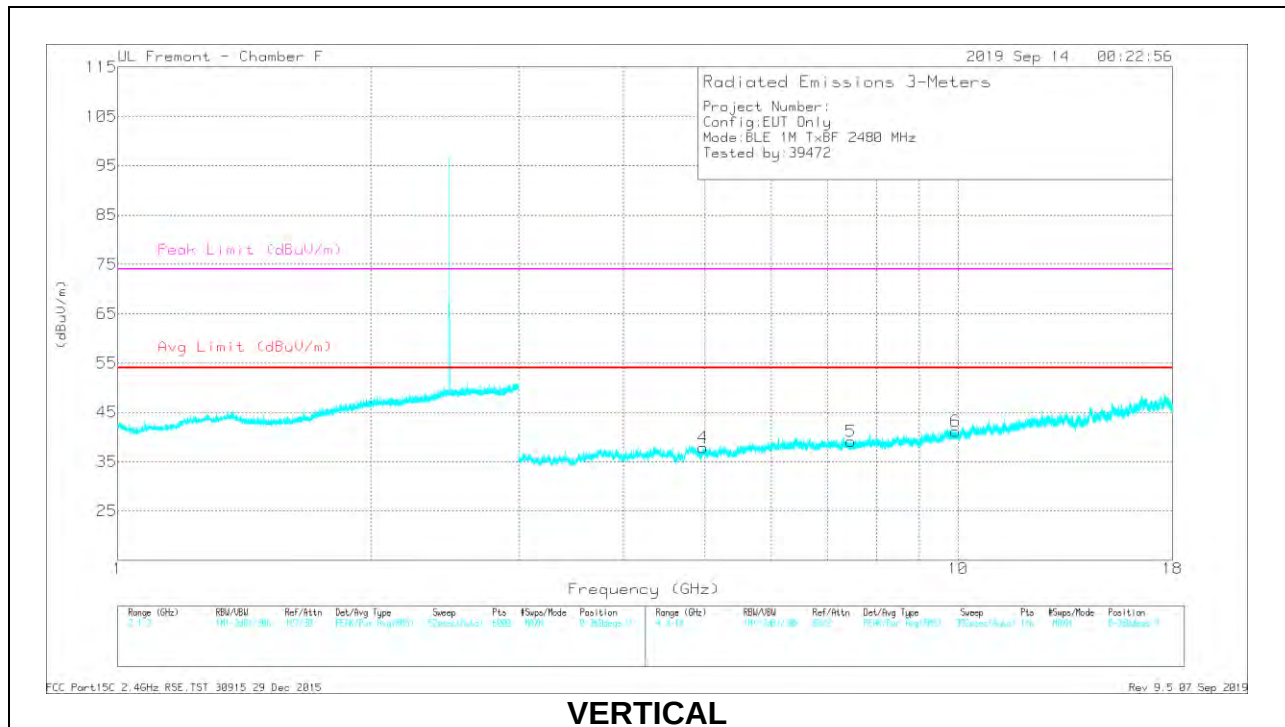
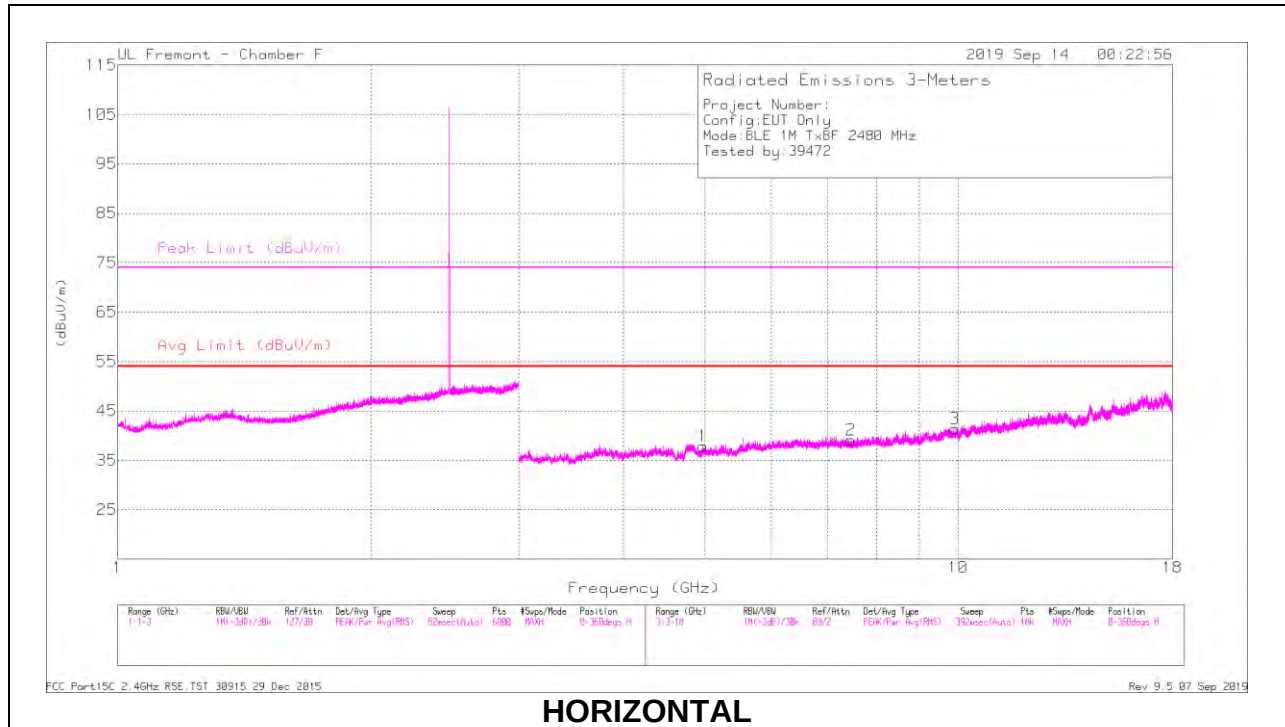
Marker	Frequen cy (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fi tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t h (Degs)	Heig ht (cm)	Polarit y
1	* 4.88061	53.89	PK2	34.1	-43.5	44.49	-	-	74	-29.51	311	219	H
	* 4.88058	42.83	MAv1	34.1	-43.5	33.43	54	-20.57	-	-	311	219	H
2	* 7.31963	51.09	PK2	35.6	-40.3	46.39	-	-	74	-27.61	270	114	H
	* 7.31891	39.72	MAv1	35.6	-40.2	35.12	54	-18.88	-	-	270	114	H
3	9.75881	50.63	PK2	36.9	-39.9	47.63	-	-	-	-	254	243	H
4	* 4.87915	54.63	PK2	34.1	-43.5	45.23	-	-	74	-28.77	277	226	V
	* 4.8792	42.85	MAv1	34.1	-43.5	33.45	54	-20.55	-	-	277	226	V
5	* 7.31896	50.94	PK2	35.6	-40.2	46.34	-	-	74	-27.66	254	116	V
	* 7.31886	39.59	MAv1	35.6	-40.2	34.99	54	-19.01	-	-	254	116	V
6	9.76041	51.22	PK2	36.9	-39.9	48.22	-	-	-	-	180	107	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	Frequen cy (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 h (Degs)	Heig ht (cm)	Polarit y
1	* 4.96111	54.07	PK2	34.1	-43.8	44.37	-	-	74	-29.63	57	126	H
	* 4.96038	43.09	MAv1	34.1	-43.9	33.29	54	-20.71	-	-	57	126	H
2	* 7.4393	52	PK2	35.7	-40.7	47	-	-	74	-27	111	160	H
	* 7.4404	39.64	MAv1	35.6	-40.7	34.54	54	-19.46	-	-	111	160	H
3	9.91915	51.55	PK2	36.9	-39.9	48.55	-	-	-	-	233	176	H
4	* 4.95916	54.38	PK2	34.1	-43.8	44.68	-	-	74	-29.32	265	255	V
	* 4.96059	42.96	MAv1	34.1	-43.8	33.26	54	-20.74	-	-	265	255	V
5	* 7.43999	50.84	PK2	35.6	-40.7	45.74	-	-	74	-28.26	218	117	V
	* 7.44097	39.69	MAv1	35.6	-40.7	34.59	54	-19.41	-	-	218	117	V
6	9.92051	50.38	PK2	36.9	-39.9	47.38	-	-	-	-	276	246	V

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

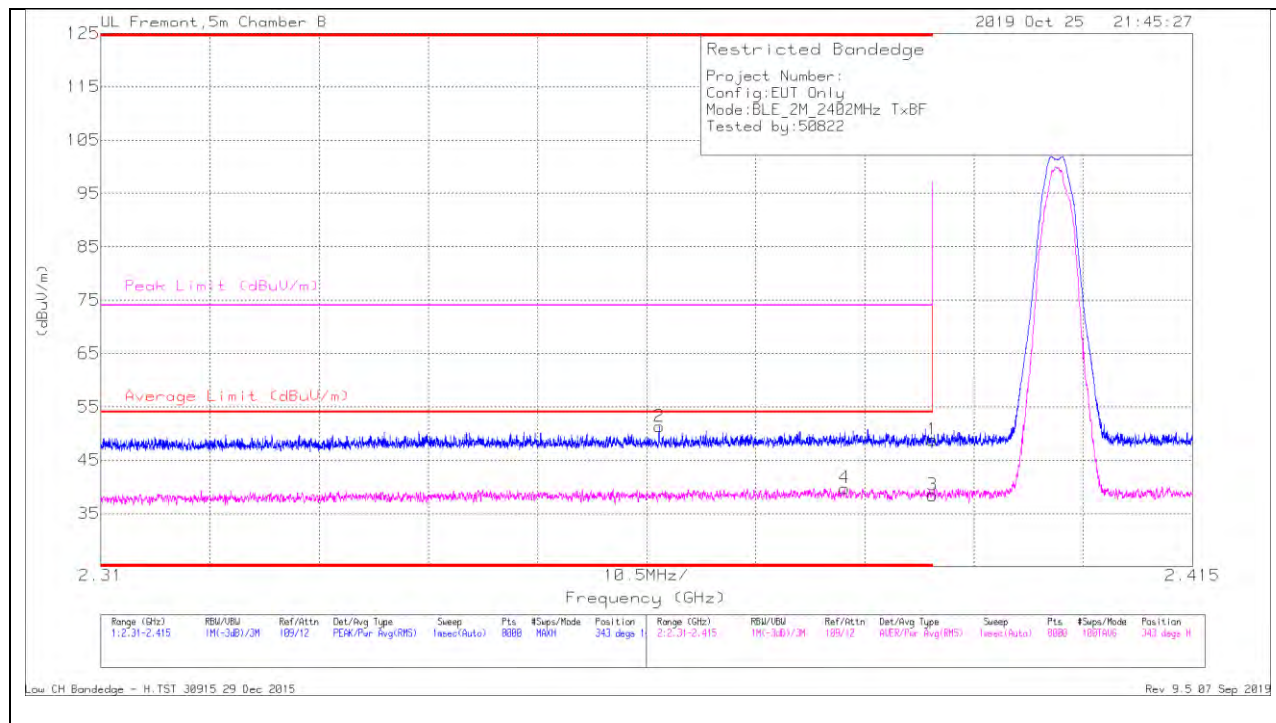
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.8. BEAMFORMING, LOW POWER BLE (2Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

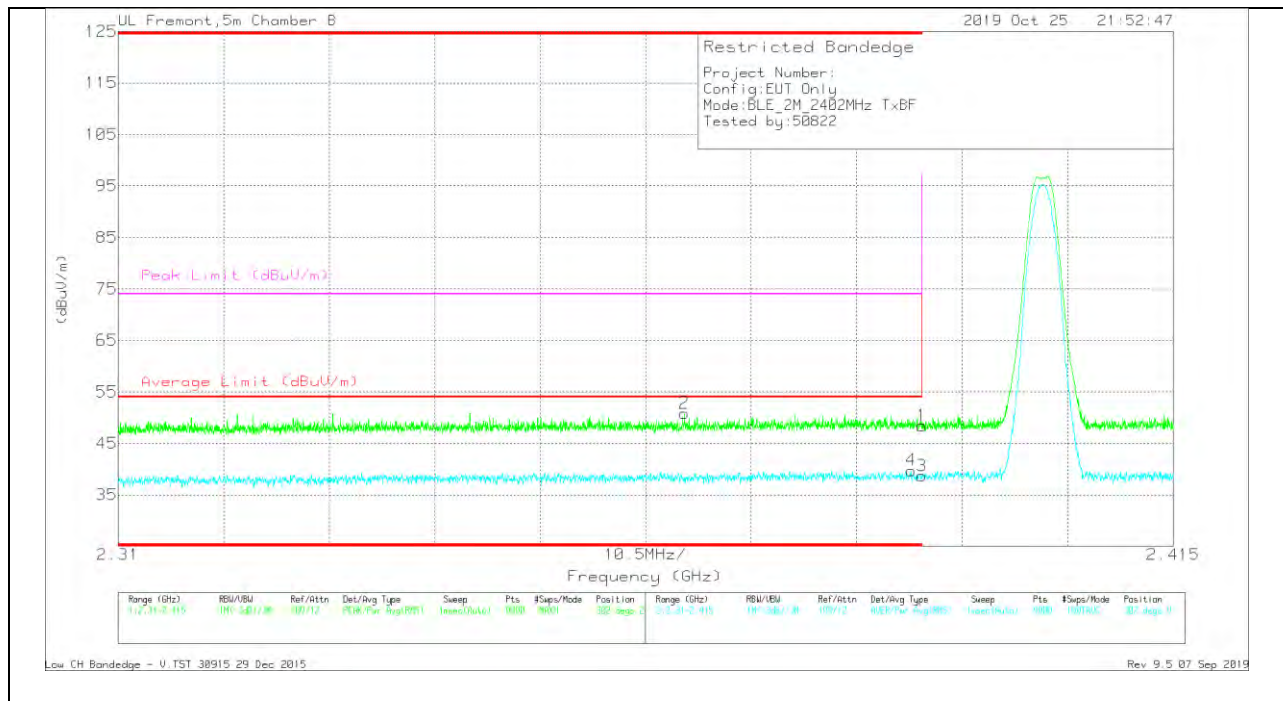


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.42	Pk	30.3	-18.9	48.82	-	-	74	-25.18	343	144	H
2	* 2.3637	40.17	Pk	30.1	-19	51.27	-	-	74	-22.73	343	144	H
3	* 2.39	27.04	RMS	30.3	-18.9	38.44	54	-15.56	-	-	343	144	H
4	* 2.38153	28.35	RMS	30.2	-18.8	39.75	54	-14.25	-	-	343	144	H

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

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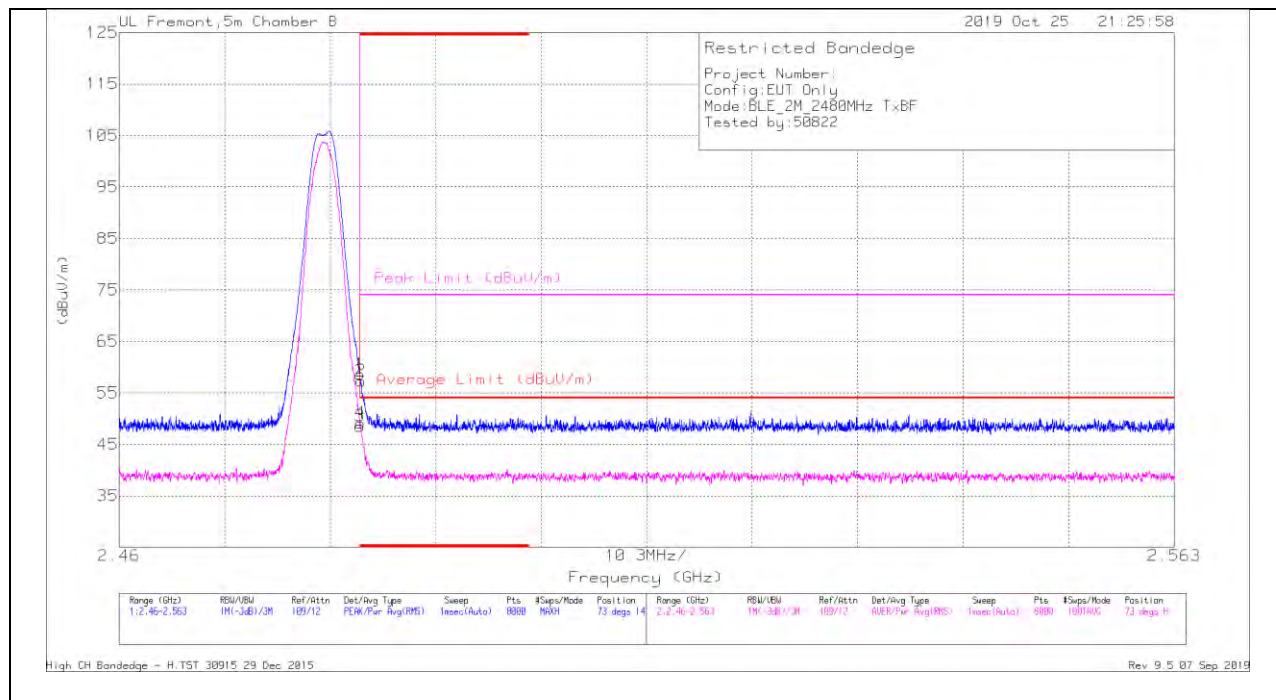
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01948 93 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.04	Pk	30.3	-18.9	48.44	-	-	74	-25.56	302	247	V
2	* 2.36634	39.75	Pk	30.1	-19	50.85	-	-	74	-23.15	302	247	V
3	* 2.39	27.31	RMS	30.3	-18.9	38.71	54	-15.29	-	-	302	247	V
4	* 2.38891	28.36	RMS	30.3	-18.9	39.76	54	-14.24	-	-	302	247	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

BANDEGE (HIGH 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	* 2.4835	47.32	Pk	30.2	-18.9	58.62	-	-	74	-15.38	73	147	H
2	* 2.48363	46.04	Pk	30.2	-18.9	57.34	-	-	74	-16.66	73	147	H
3	* 2.4835	37.25	RMS	30.2	-18.9	48.55	54	-5.45	-	-	73	147	H
4	* 2.48355	37.85	RMS	30.2	-18.9	49.15	54	-4.85	-	-	73	147	H

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

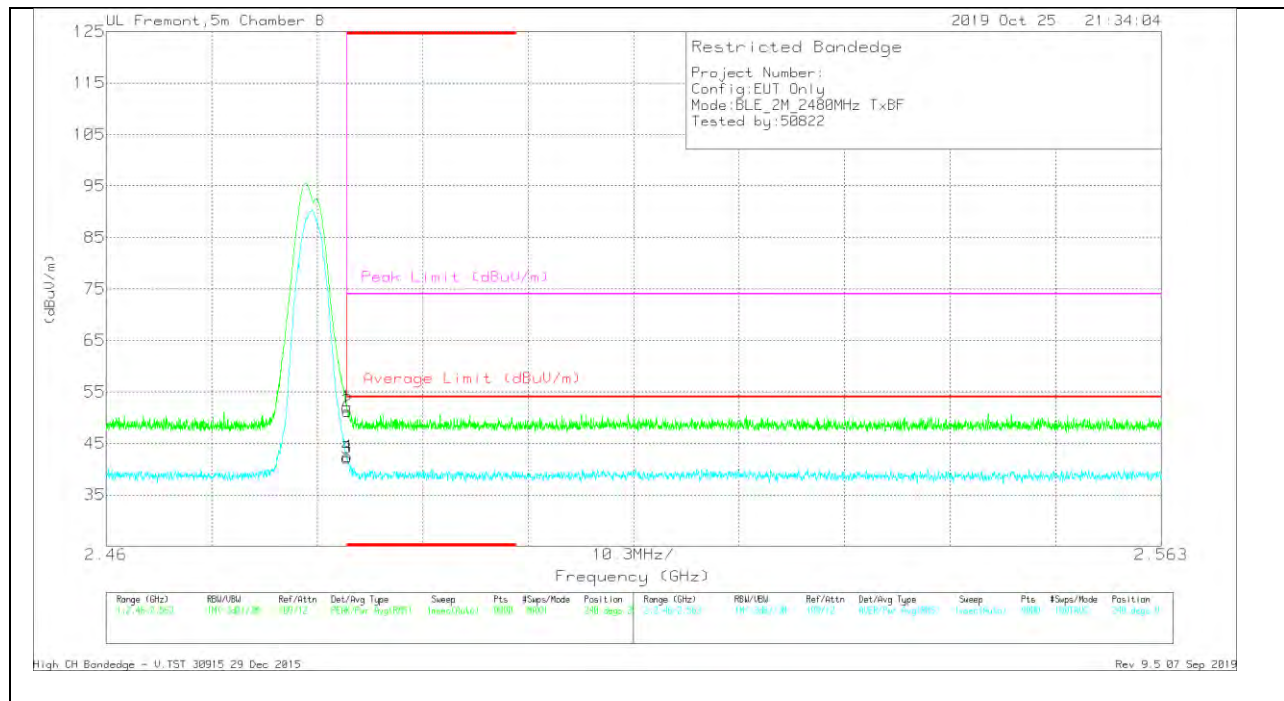
Pk - Peak detector

RMS - RMS detection

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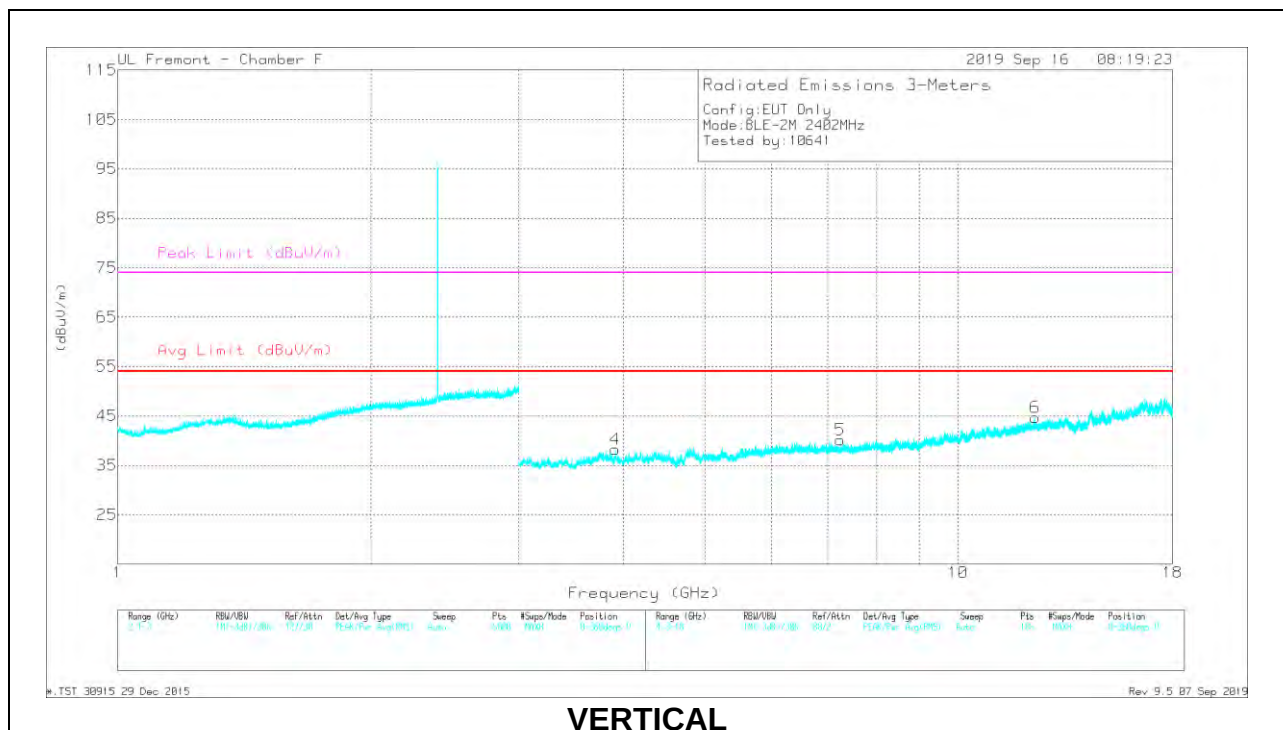
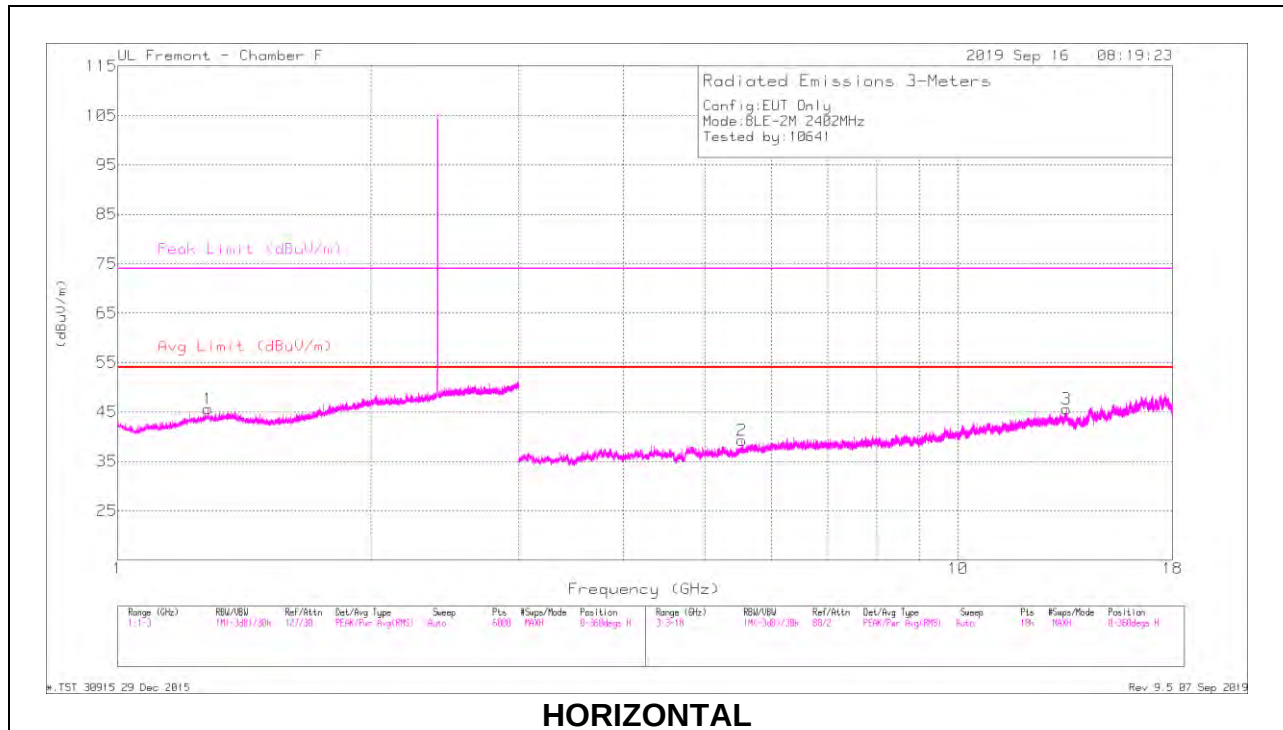
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE01 94893 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.4835	40.76	Pk	30.2	-18.9	52.06	-	-	74	-21.94	240	350	V
2	*2.48356	39.94	Pk	30.2	-18.9	51.24	-	-	74	-22.76	240	350	V
3	*2.4835	30.85	RMS	30.2	-18.9	42.15	54	-11.85	-	-	240	350	V
4	*2.48355	31.17	RMS	30.2	-18.9	42.47	54	-11.53	-	-	240	350	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

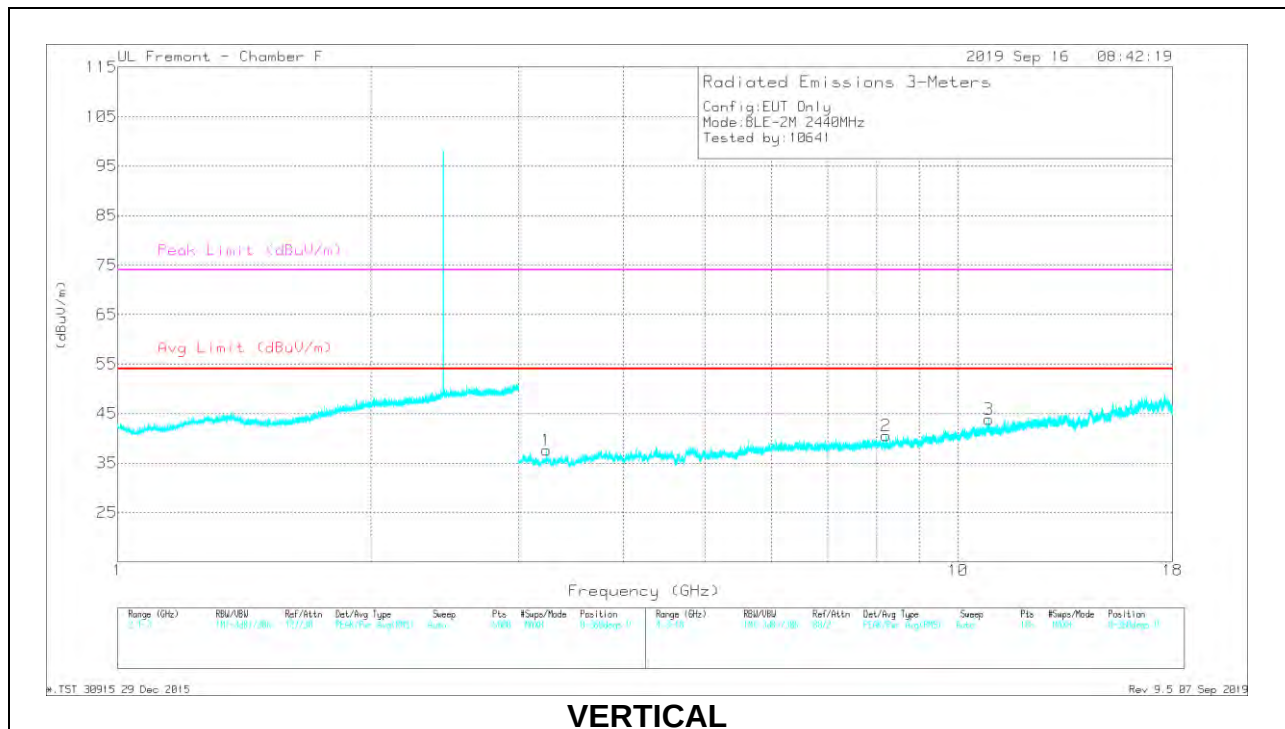
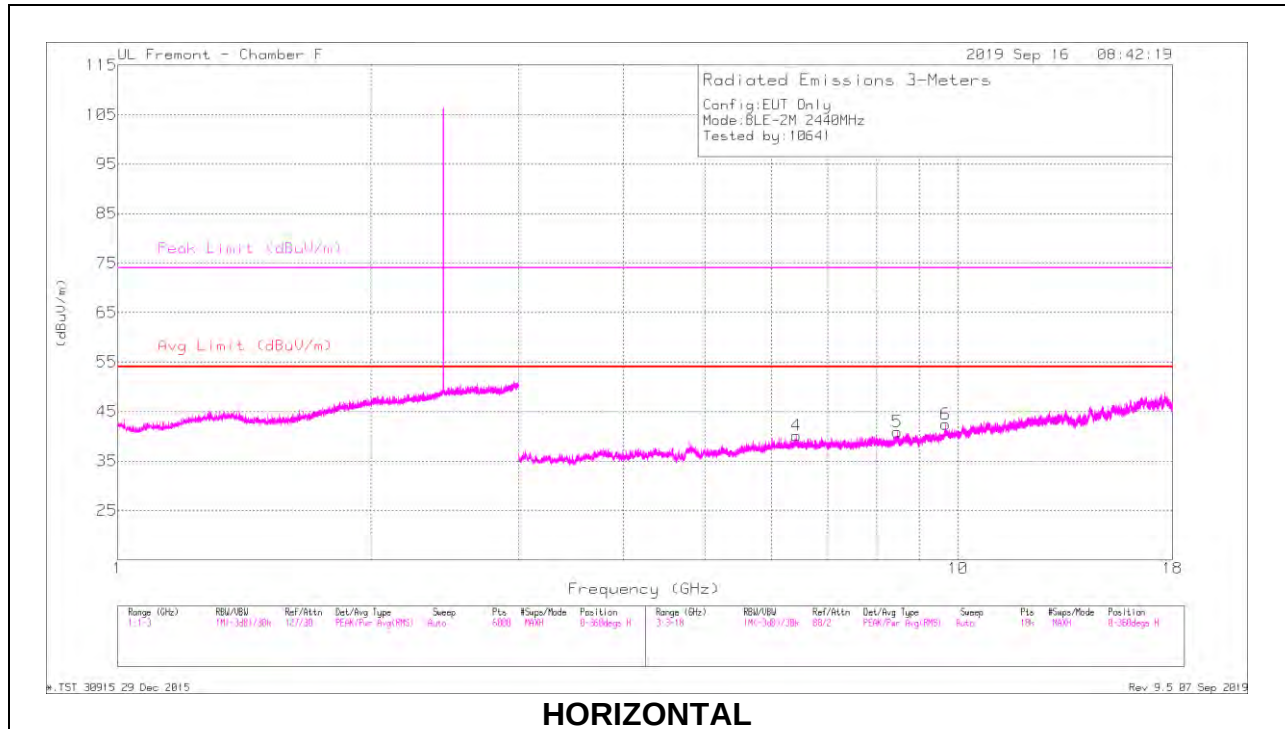
Marker	Frequenc y (GHz)	Meter Readin g (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/m)	Margi n (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimu t (Degs)	Heig ht (cm)	Polarit y
1	* 1.28218	58.81	PK2	29	-36.7	51.11	-	-	74	-22.89	290	107	H
	* 1.28106	47.56	MAv1	29	-36.6	39.96	54	-14.04	-	-	290	107	H
2	5.52606	52.5	PK2	34.7	-42.1	45.1	-	-	74	-28.9	230	156	H
3	13.46045	50.23	PK2	39	-37.8	51.43	-	-	74	-22.57	184	173	H
4	* 3.90711	54.32	PK2	33.6	-43.6	44.32	-	-	74	-29.68	218	127	V
	* 3.90666	42.93	MAv1	33.6	-43.6	32.93	54	-21.07	-	-	218	127	V
6	* 12.35164	50.42	PK2	39.1	-38.9	50.62	-	-	74	-23.38	248	141	V
	* 12.34788	39.32	MAv1	39.2	-38.9	39.62	54	-14.38	-	-	248	141	V
5	7.24142	51	PK2	35.6	-41	45.6	-	-	74	-28.4	220	189	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

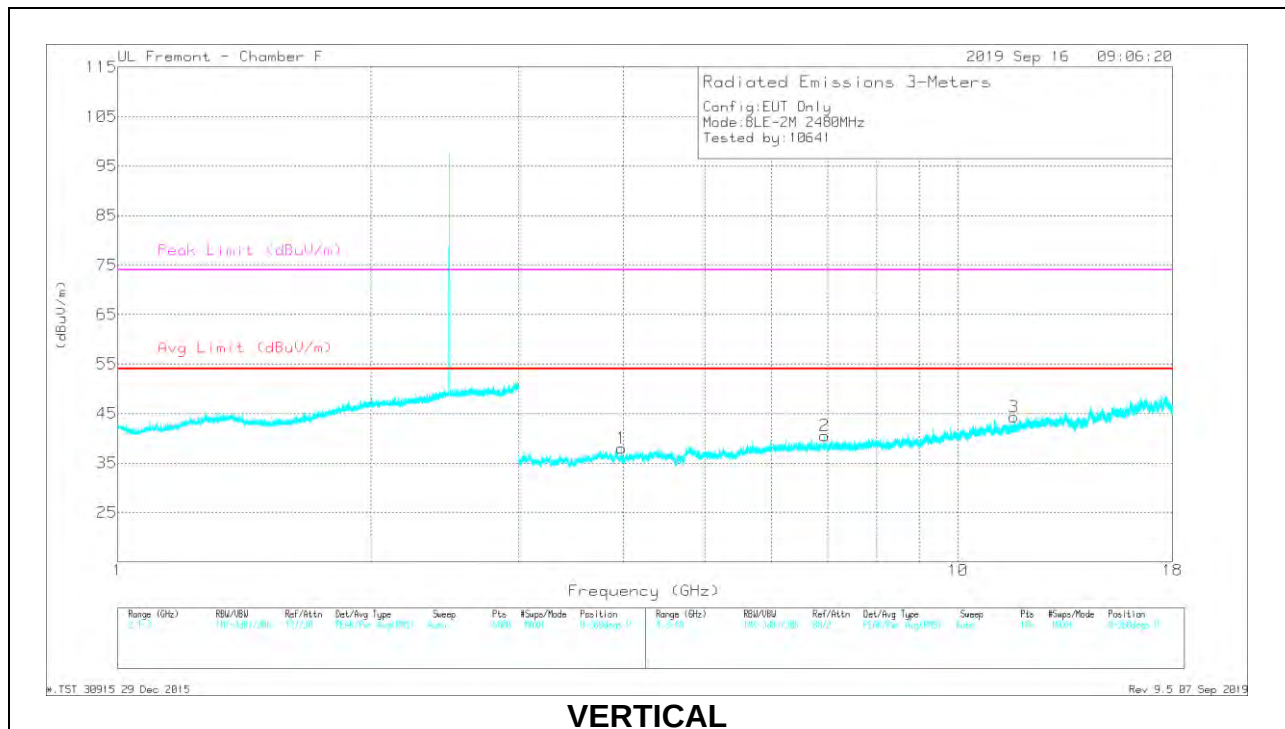
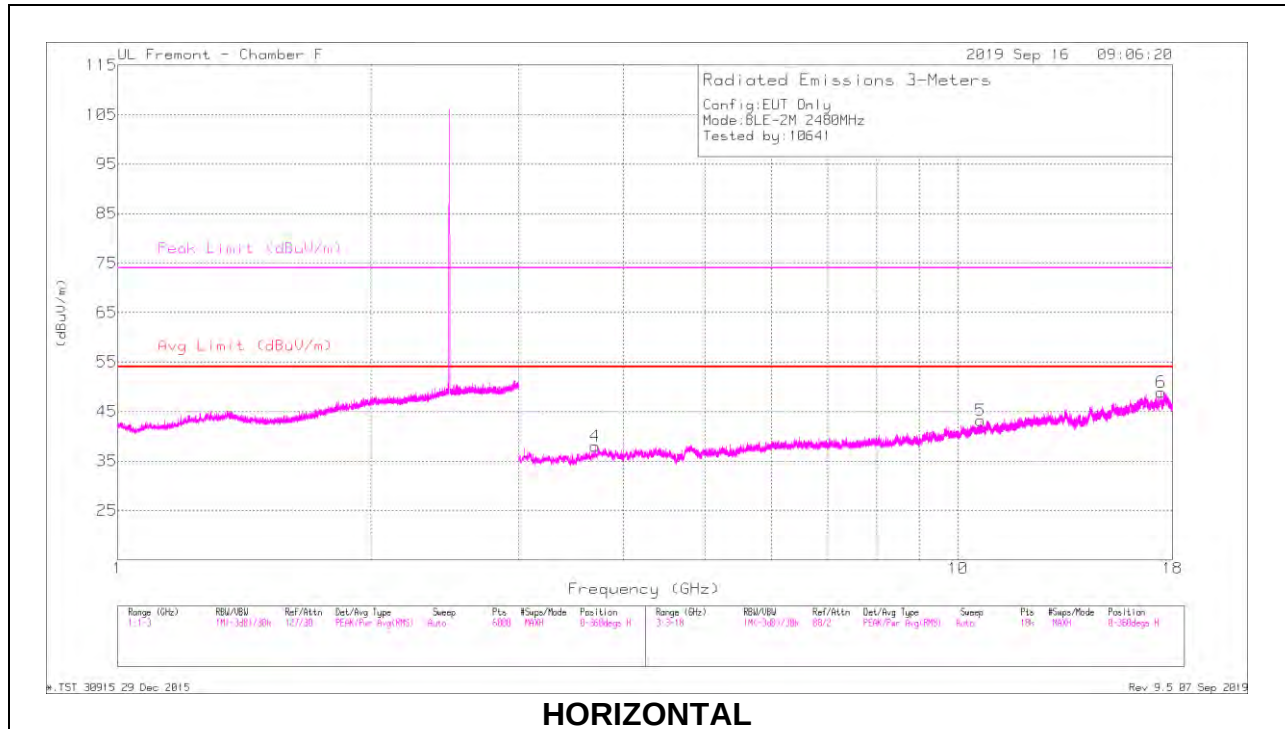
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fil/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
6.42569	51.52	PK2	35.7	-40.7	46.52	-	-	74	-27.48	296	127	H
9.66493	50.21	PK2	36.8	-38.9	48.11	-	-	74	-25.89	265	142	H
* 8.46094	50.2	PK2	36	-39.1	47.1	-	-	74	-26.9	198	181	H
* 8.46276	39.24	MAV1	36	-39.1	36.14	54	-17.86	-	-	198	181	H
3.23608	54.69	PK2	32.7	-43.7	43.69	-	-	74	-30.31	231	165	V
* 8.21752	50.83	PK2	35.9	-39.5	47.23	-	-	74	-26.77	220	199	V
* 8.21513	39.02	MAV1	35.8	-39.6	35.22	54	-18.78	-	-	220	199	V
* 10.8923	50.52	PK2	38	-38.1	50.42	-	-	74	-23.58	191	210	V
* 10.88905	39.25	MAV1	38	-38.1	39.15	54	-14.85	-	-	191	210	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



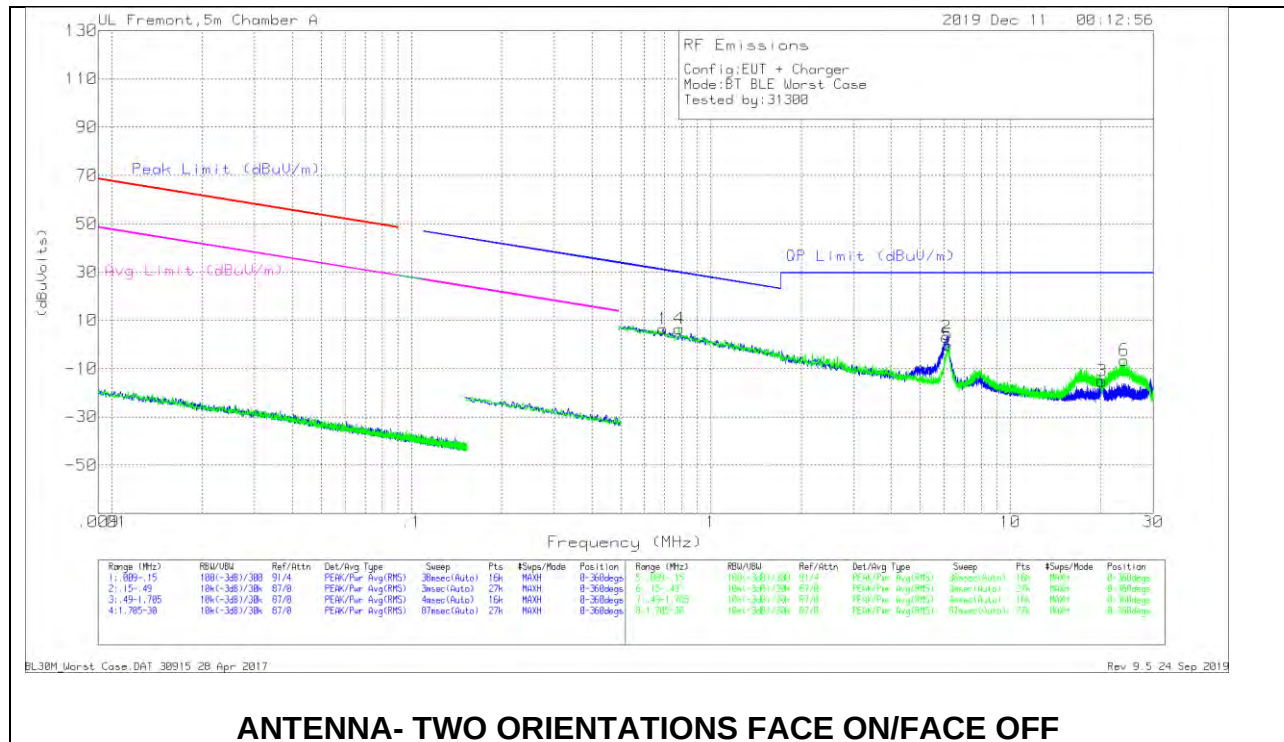
RADIATED EMISSIONS

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
4	* 3.69766	54.34	PK2	33	-43.6	43.74	-	-	74	-30.26	329	114	H
	* 3.69746	42.87	MAv1	33	-43.6	32.27	54	-21.73	-	-	329	114	H
5	* 10.63942	50.95	PK2	37.9	-38.9	49.95	-	-	74	-24.05	295	138	H
	* 10.64082	38.97	MAv1	37.9	-38.9	37.97	54	-16.03	-	-	295	138	H
6	17.45236	51	PK2	41.5	-36.4	56.1	-	-	74	-17.9	193	177	H
1	* 3.97873	53.98	PK2	33.7	-43.7	43.98	-	-	74	-30.02	257	152	V
	* 3.97752	42.51	MAv1	33.7	-43.7	32.51	54	-21.49	-	-	257	152	V
3	* 11.65936	50.13	PK2	38.4	-38.7	49.83	-	-	74	-24.17	217	166	V
	* 11.65787	38.96	MAv1	38.4	-38.6	38.76	54	-15.24	-	-	217	166	V
2	6.93773	51.43	PK2	35.8	-41.1	46.13	-	-	74	-27.87	226	187	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.3. WORST CASE BELOW 30MHZ**SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)****ANTENNA- TWO ORIENTATIONS FACE ON/FACE OFF****Below 30MHz Data**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.69212	35.5	Pk	10.8	.1	-40	6.4	30.81	-24.41	0-360
4	.78317	35.62	Pk	10.8	.1	-40	6.52	29.74	-23.22	0-360
2	6.12442	32.25	Pk	10.6	.3	-40	3.15	29.5	-26.35	0-360
5	6.16896	28.83	Pk	10.6	.3	-40	-27	29.5	-29.77	0-360
3	20.2132	14.49	Pk	9.8	.6	-40	-15.11	29.5	-44.61	0-360
6	24.02792	23.37	Pk	9.3	.7	-40	-6.63	29.5	-36.13	0-360

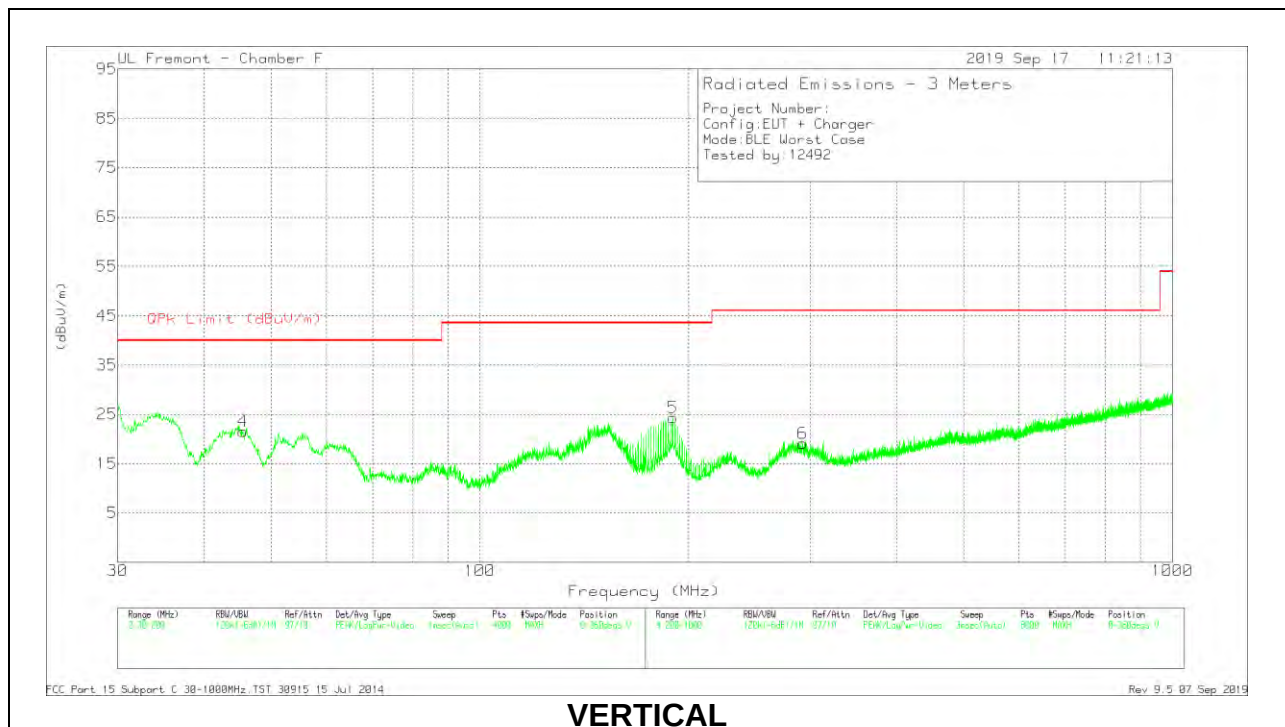
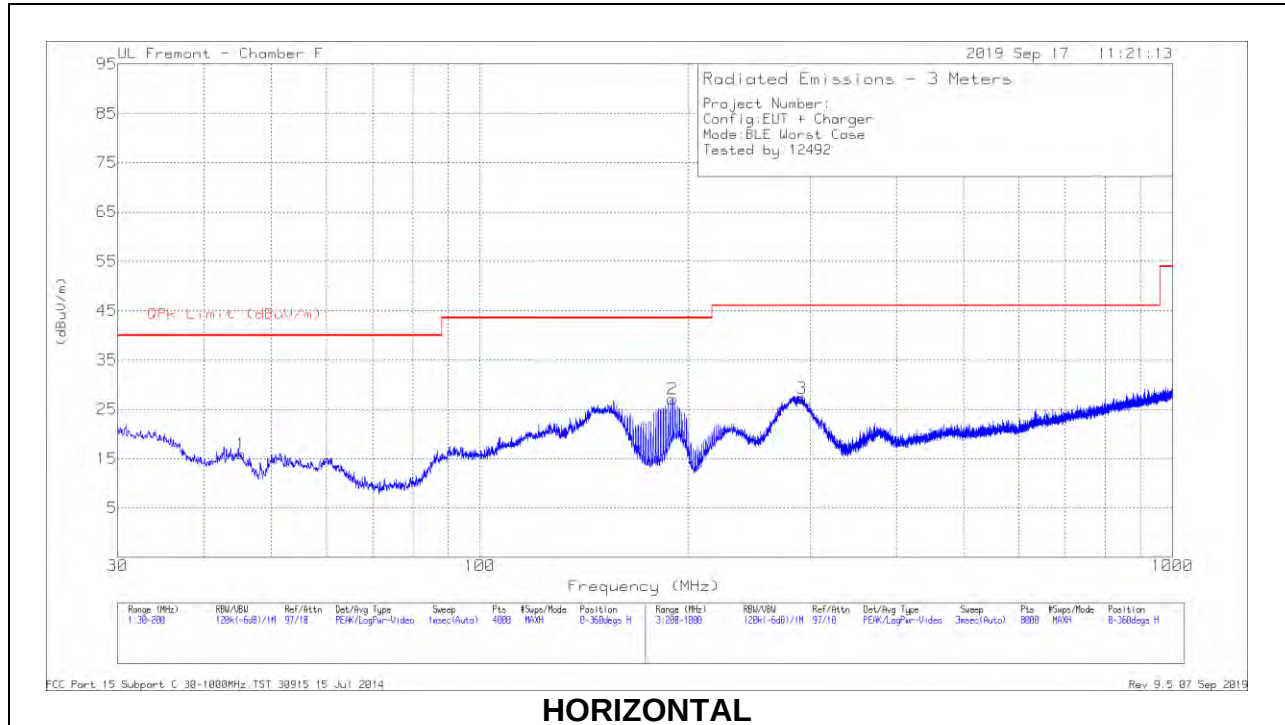
Pk - Peak detector

BL30M_Worst Case.DAT 30915 28 Apr 2017

Rev 9.5 24 Sep 2019

9.4. WORST CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



DATA

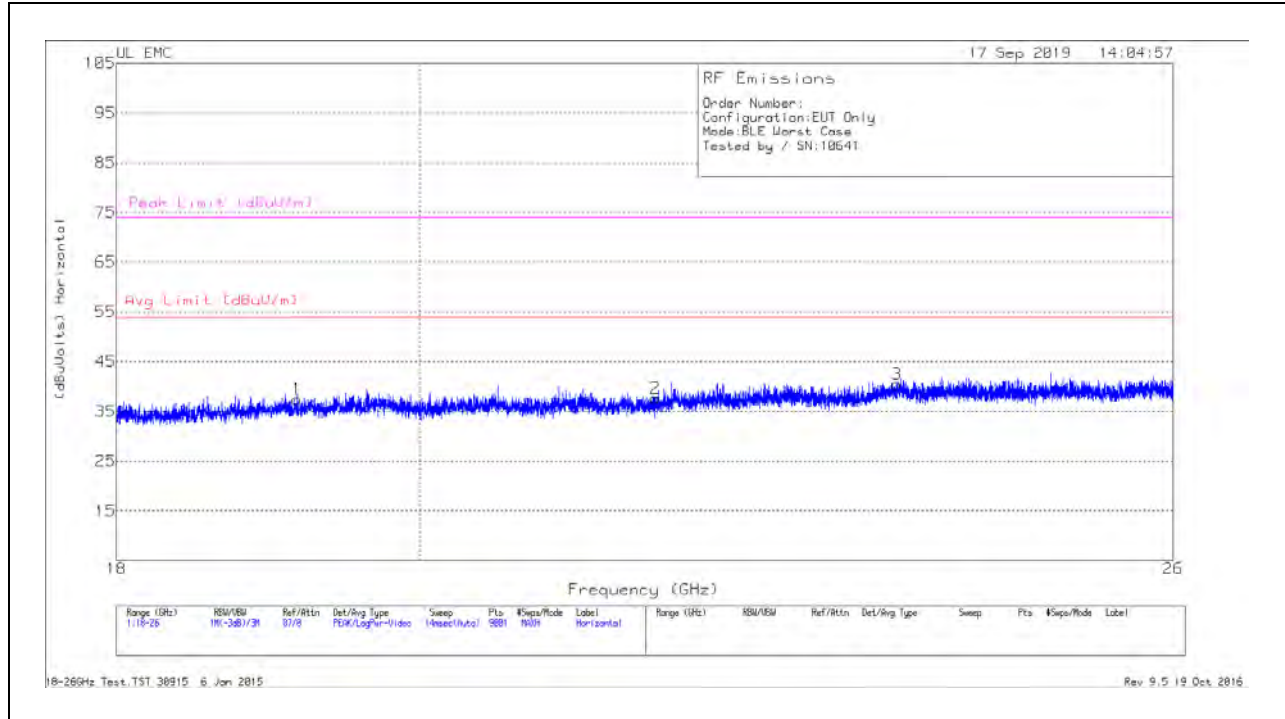
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	45.1764	33.41	Pk	14.2	-31.7	15.91	40	-24.09	0-360	399	H
2	189.7988	42.53	Pk	15.2	-30.6	27.13	43.52	-16.39	0-360	99	H
4	45.474	39.2	Pk	14	-31.7	21.5	40	-18.5	0-360	100	V
5	189.8414	39.68	Pk	15.2	-30.6	24.28	43.52	-19.24	0-360	100	V
3	291.6119	39.96	Pk	17.3	-30	27.26	46.02	-18.76	0-360	99	H
6	292.212	31.77	Pk	17.3	-29.9	19.17	46.02	-26.85	0-360	99	V

Pk - Peak detector

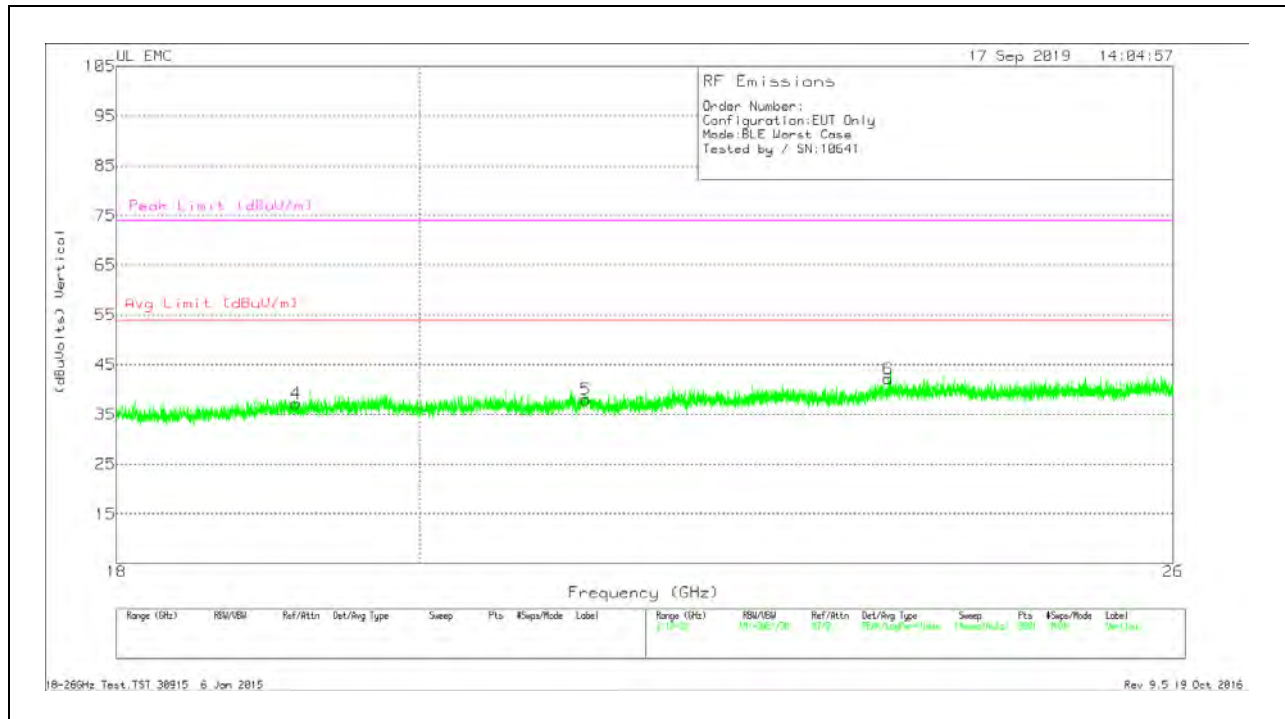
9.5. WORST CASE 18-26 GHz

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)

HORIZONTAL



VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T447 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.167	35.76	Pk	32.6	-21.4	-9.5	37.46	54	-16.54	74	-36.54
2	21.715	35.05	Pk	33.1	-21	-9.5	37.65	54	-16.35	74	-36.35
3	23.615	35.77	Pk	34.1	-19.9	-9.5	40.47	54	-13.53	74	-33.53
4	19.161	35.39	Pk	32.6	-21.3	-9.5	37.19	54	-16.81	74	-36.81
5	21.193	35.6	Pk	33	-21.1	-9.5	38	54	-16	74	-36
6	23.545	37.53	Pk	34.1	-20	-9.5	42.13	54	-11.87	74	-31.87

Pk - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS**LIMITS**

FCC §15.207 (a)

RSS-Gen 8.8

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

*Decreases with the logarithm of the frequency

TEST PROCEDURE

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

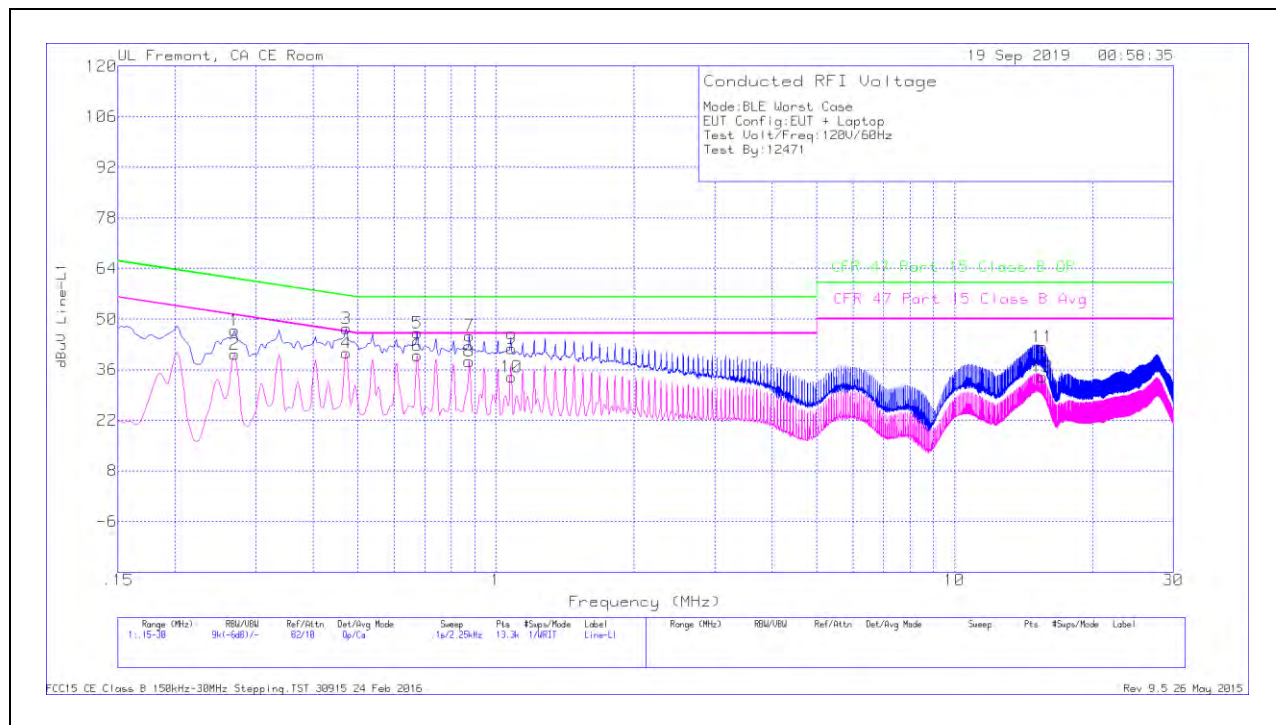
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1.1. AC Power Line Host

LINE 1 RESULTS

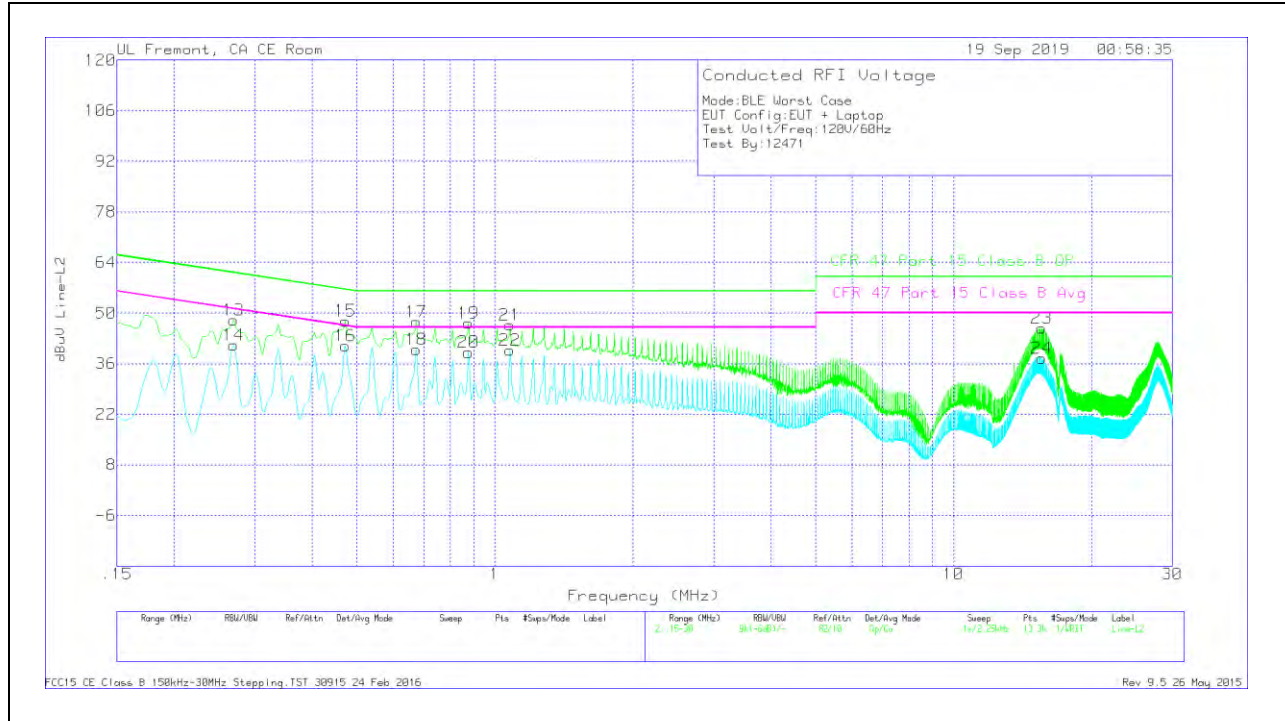


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.26925	36.7	Qp	0	0	10.1	46.8	61.14	-14.34	-	-
2	.26925	30.1	Ca	0	0	10.1	40.2	-	-	51.14	-10.94
3	.47175	37.32	Qp	0	0	10.1	47.42	56.48	-9.06	-	-
4	.47175	30.55	Ca	0	0	10.1	40.65	-	-	46.48	-5.83
5	.67425	36.15	Qp	0	0	10.1	46.25	56	-9.75	-	-
6	.67425	29.88	Ca	0	0	10.1	39.98	-	-	46	-6.02
7	.87675	35.29	Qp	0	0	10.1	45.39	56	-10.61	-	-
8	.8745	28.17	Ca	0	0	10.1	38.27	-	-	46	-7.73
9	1.0815	31.61	Qp	0	.1	10.1	41.81	56	-14.19	-	-
10	1.0815	23.84	Ca	0	.1	10.1	34.04	-	-	46	-11.96
11	15.558	31.67	Qp	.1	.3	10.2	42.27	60	-17.73	-	-
12	15.558	23.35	Ca	.1	.3	10.2	33.95	-	-	50	-16.05

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



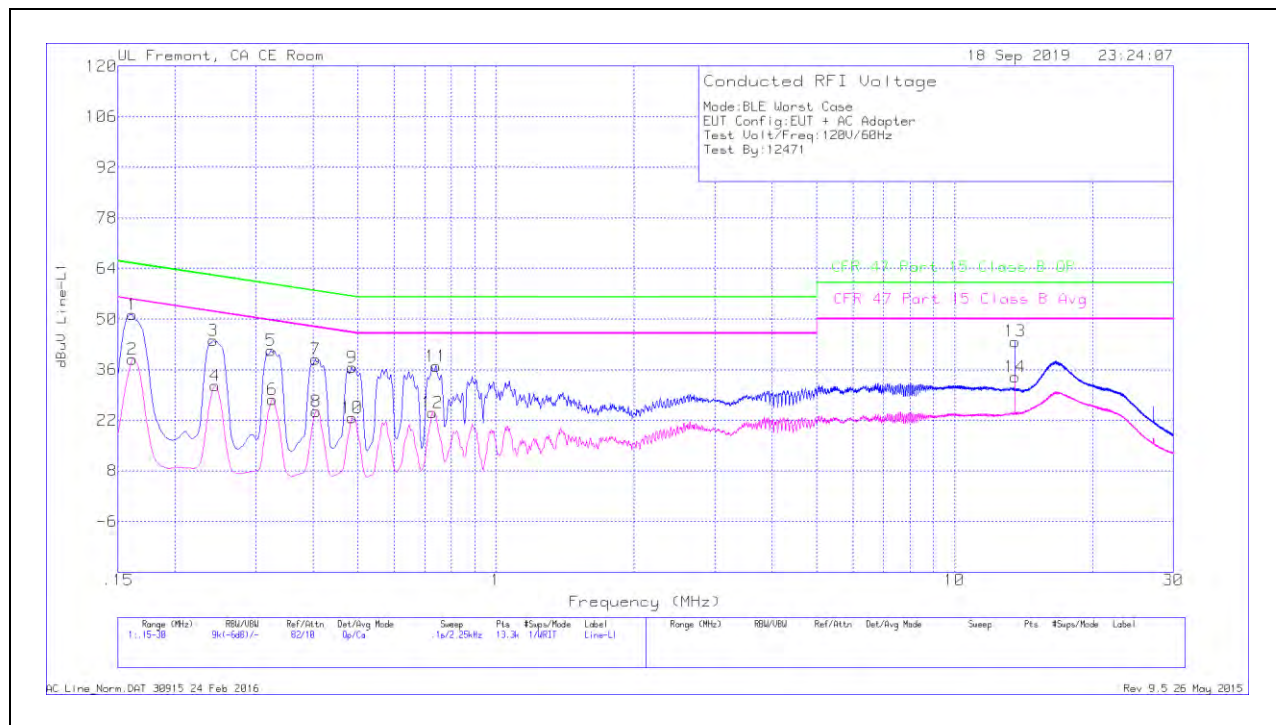
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.26925	37.96	Qp	0	0	10.1	48.06	61.14	-13.08	-	-
14	.26925	31	Ca	0	0	10.1	41.1	-	-	51.14	-10.04
15	.47175	37.72	Qp	0	0	10.1	47.82	56.48	-8.66	-	-
16	.47175	30.84	Ca	0	0	10.1	40.94	-	-	46.48	-5.54
17	.67425	37.5	Qp	0	0	10.1	47.6	56	-8.4	-	-
18	.67425	29.86	Ca	0	0	10.1	39.96	-	-	46	-6.04
19	.87675	37.1	Qp	0	0	10.1	47.2	56	-8.8	-	-
20	.87675	29.04	Ca	0	0	10.1	39.14	-	-	46	-6.86
21	1.07925	36.44	Qp	0	.1	10.1	46.64	56	-9.36	-	-
22	1.07925	29.47	Ca	0	.1	10.1	39.67	-	-	46	-6.33
23	15.57375	35.17	Qp	.1	.3	10.2	45.77	60	-14.23	-	-
24	15.57375	26.95	Ca	.1	.3	10.2	37.55	-	-	50	-12.45

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.1.2. AC Power Line Norm

LINE 1 RESULTS



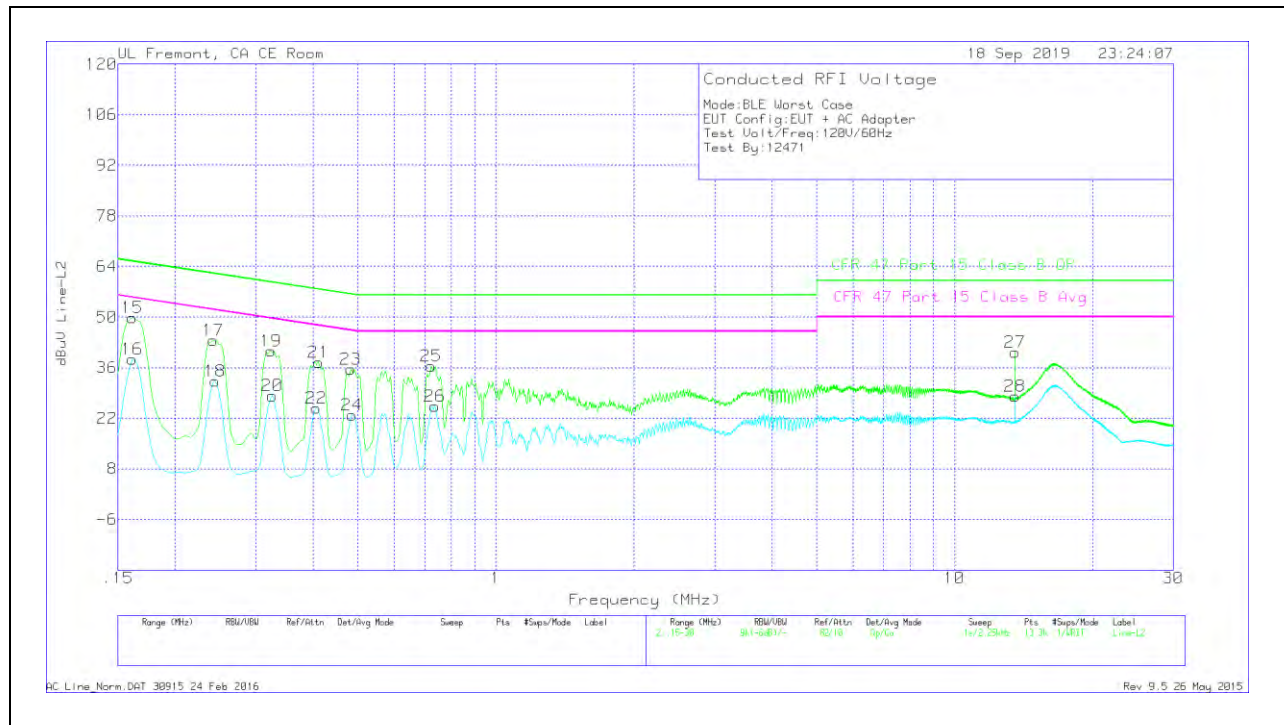
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.16125	40.97	Qp	.1	0	10.1	51.17	65.4	-14.23	-	-
2	.16125	28.68	Ca	.1	0	10.1	38.88	-	-	55.4	-16.52
3	.24225	33.93	Qp	0	0	10.1	44.03	62.02	-17.99	-	-
4	.2445	21.53	Ca	0	0	10.1	31.63	-	-	51.94	-20.31
5	.32325	31.26	Qp	0	0	10.1	41.36	59.62	-18.26	-	-
6	.3255	17.7	Ca	0	0	10.1	27.8	-	-	49.57	-21.77
7	.40425	28.74	Qp	0	0	10.1	38.84	57.77	-18.93	-	-
8	.4065	14.42	Ca	0	0	10.1	24.52	-	-	47.72	-23.2
9	.48525	26.56	Qp	0	0	10.1	36.66	56.25	-19.59	-	-
10	.48525	12.57	Ca	0	0	10.1	22.67	-	-	46.25	-23.58
11	.74175	26.92	Qp	0	0	10.1	37.02	56	-18.98	-	-
12	.72825	13.95	Ca	0	0	10.1	24.05	-	-	46	-21.95
*13	13.56	33.33	Qp	.1	.2	10.2	43.83	60	-16.17	-	-
*14	13.56	23.48	Ca	.1	.2	10.2	33.98	-	-	50	-16.02

Qp - Quasi-Peak detector

Ca - CISPR average detection

*Indicates UL RFID signal. Not from device

LINE 2 RESULTS



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
15	.16125	39.6	Qp	.1	0	10.1	49.8	65.4	-15.6	-	-
16	.16125	28.1	Ca	.1	0	10.1	38.3	-	-	55.4	-17.1
17	.24225	33.51	Qp	0	0	10.1	43.61	62.02	-18.41	-	-
18	.2445	22.21	Ca	0	0	10.1	32.31	-	-	51.94	-19.63
19	.32325	30.57	Qp	0	0	10.1	40.67	59.62	-18.95	-	-
20	.3255	18.09	Ca	0	0	10.1	28.19	-	-	49.57	-21.38
21	.411	27.31	Qp	0	0	10.1	37.41	57.63	-20.22	-	-
22	.4065	14.66	Ca	0	0	10.1	24.76	-	-	47.72	-22.96
23	.483	25.53	Qp	0	0	10.1	35.63	56.29	-20.66	-	-
24	.48525	12.78	Ca	0	0	10.1	22.88	-	-	46.25	-23.37
25	.72375	26.41	Qp	0	0	10.1	36.51	56	-19.49	-	-
26	.73725	15.26	Ca	0	0	10.1	25.36	-	-	46	-20.64
*27	13.56	29.81	Qp	.1	.2	10.2	40.31	60	-19.69	-	-
*28	13.56	17.59	Ca	.1	.2	10.2	28.09	-	-	50	-21.91

Qp - Quasi-Peak detector

Ca - CISPR average detection

*Indicates UL RFID signal. Not from device

11. SETUP PHOTOS

Please refer to 13018973-EP1V1 for setup photos