

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.

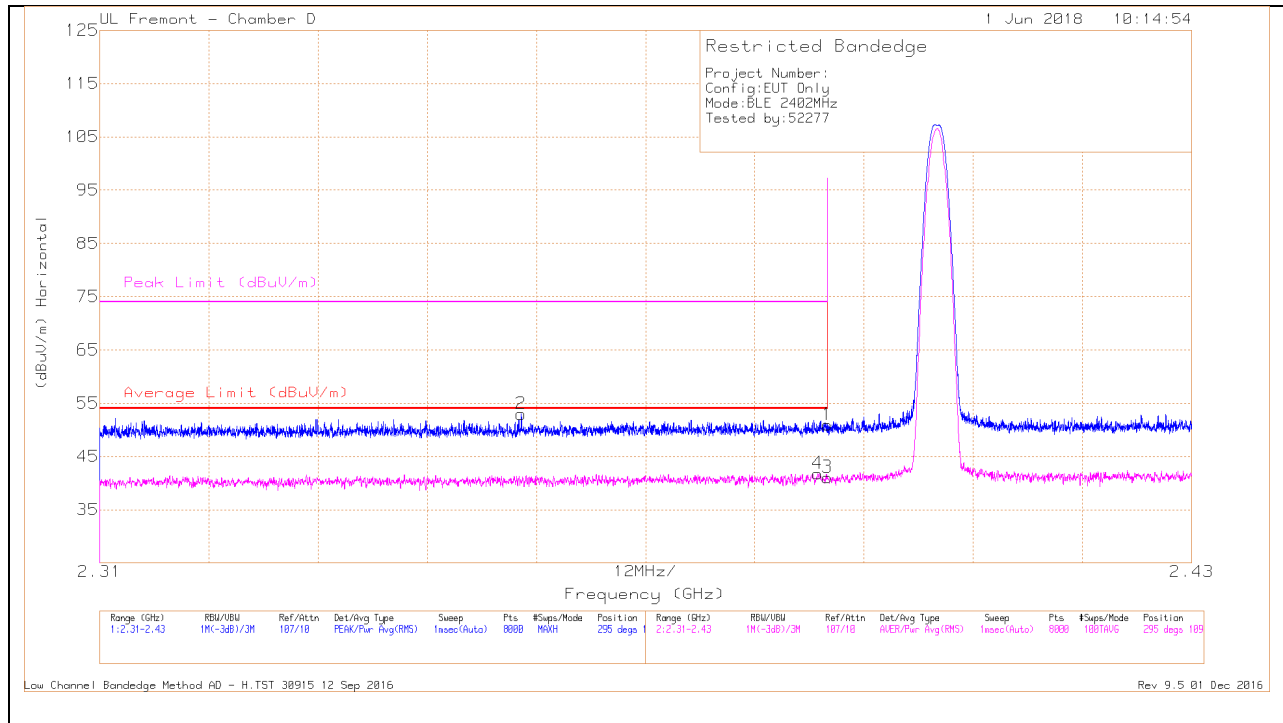
9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. HIGH POWER BLE (1Mbps)

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.356	41.87	Pk	31.7	-20.6	52.97	-	-	74	-21.03	295	109	H
4	* 2.389	30.4	RMS	31.9	-20.5	41.8	54	-12.2	-	-	295	109	H
1	* 2.39	39.57	Pk	31.9	-20.5	50.97	-	-	74	-23.03	295	109	H
3	* 2.39	29.68	RMS	31.9	-20.5	41.08	54	-12.92	-	-	295	109	H

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

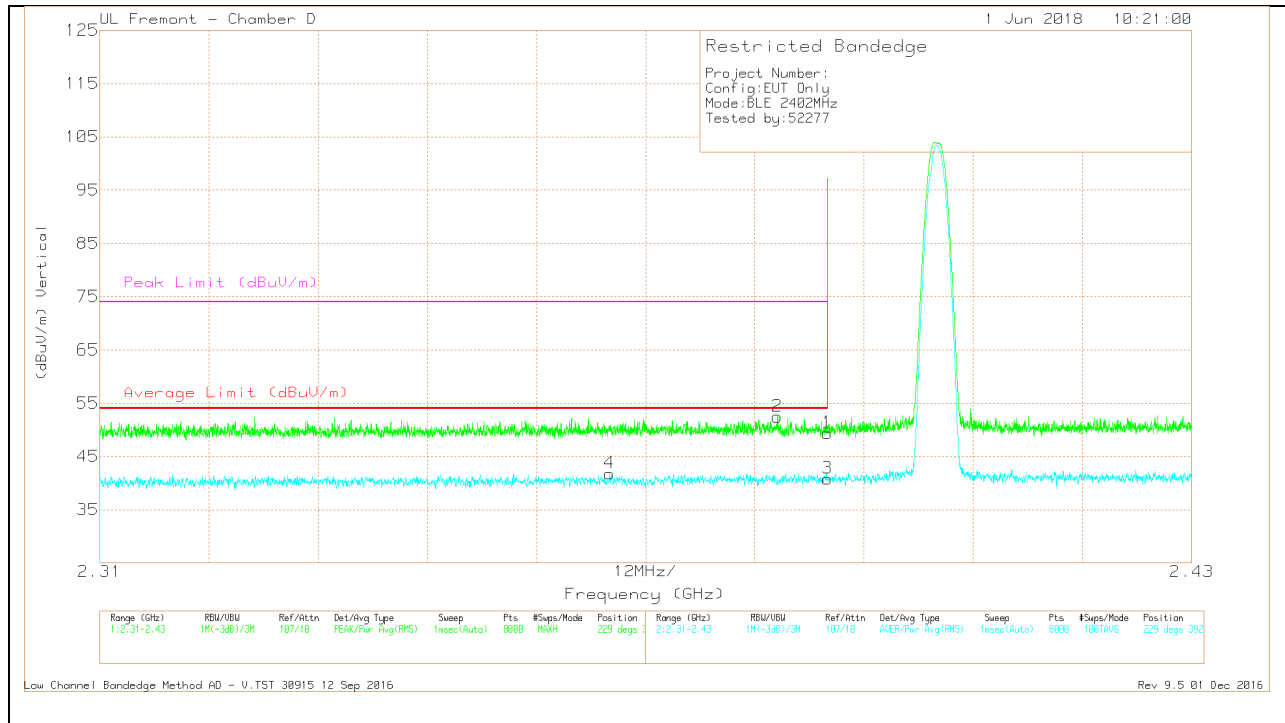
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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
4	* 2.366	30.63	RMS	31.7	-20.5	41.83	54	-12.17	-	-	229	392	V
2	* 2.385	41.09	Pk	31.9	-20.5	52.49	-	-	74	-21.51	229	392	V
1	* 2.39	37.99	Pk	31.9	-20.5	49.39	-	-	74	-24.61	229	392	V
3	* 2.39	29.45	RMS	31.9	-20.5	40.85	54	-13.15	-	-	229	392	V

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

Pk - Peak detector

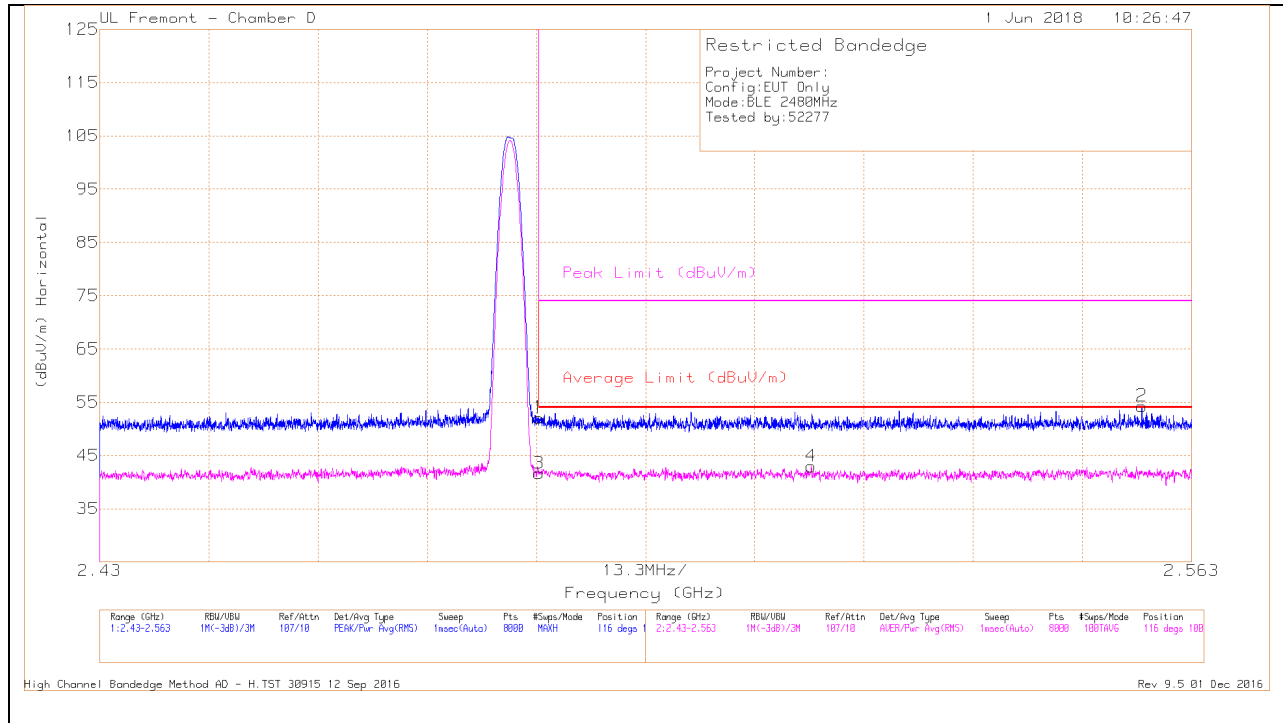
RMS - RMS detection

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.07	Pk	32.4	-20.4	52.07	-	-	74	-21.93	116	100	H
3	* 2.484	29.65	RMS	32.4	-20.4	41.65	54	-12.35	-	-	116	100	H
4	2.517	30.86	RMS	32.4	-20.3	42.96	54	-11.04	-	-	116	100	H
2	2.557	41.96	Pk	32.5	-20.2	54.26	-	-	74	-19.74	116	100	H

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

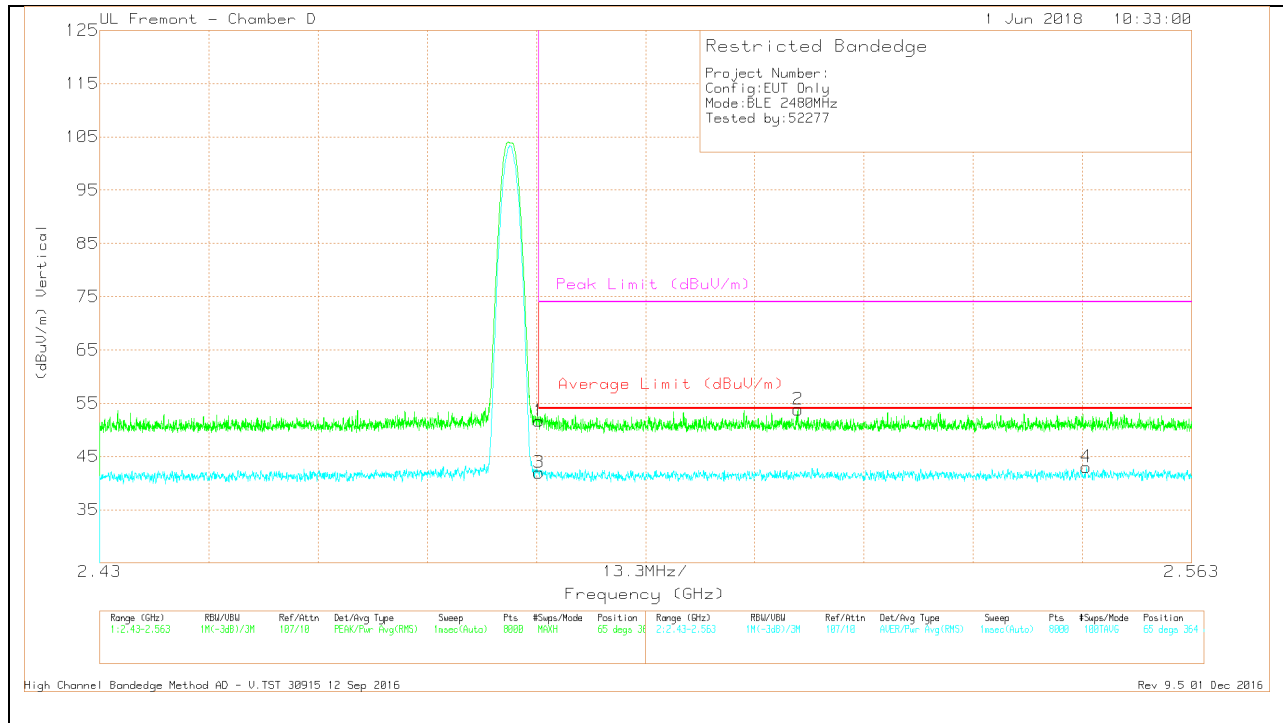
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.484	39.65	Pk	32.4	-20.4	51.65	-	-	74	-22.35	65	364	V
3	* 2.484	29.98	RMS	32.4	-20.4	41.98	54	-12.02	-	-	65	364	V
2	2.515	41.72	Pk	32.4	-20.3	53.82	-	-	74	-20.18	65	364	V
4	2.55	31.01	RMS	32.4	-20.4	43.01	54	-10.99	-	-	65	364	V

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

Pk - Peak detector

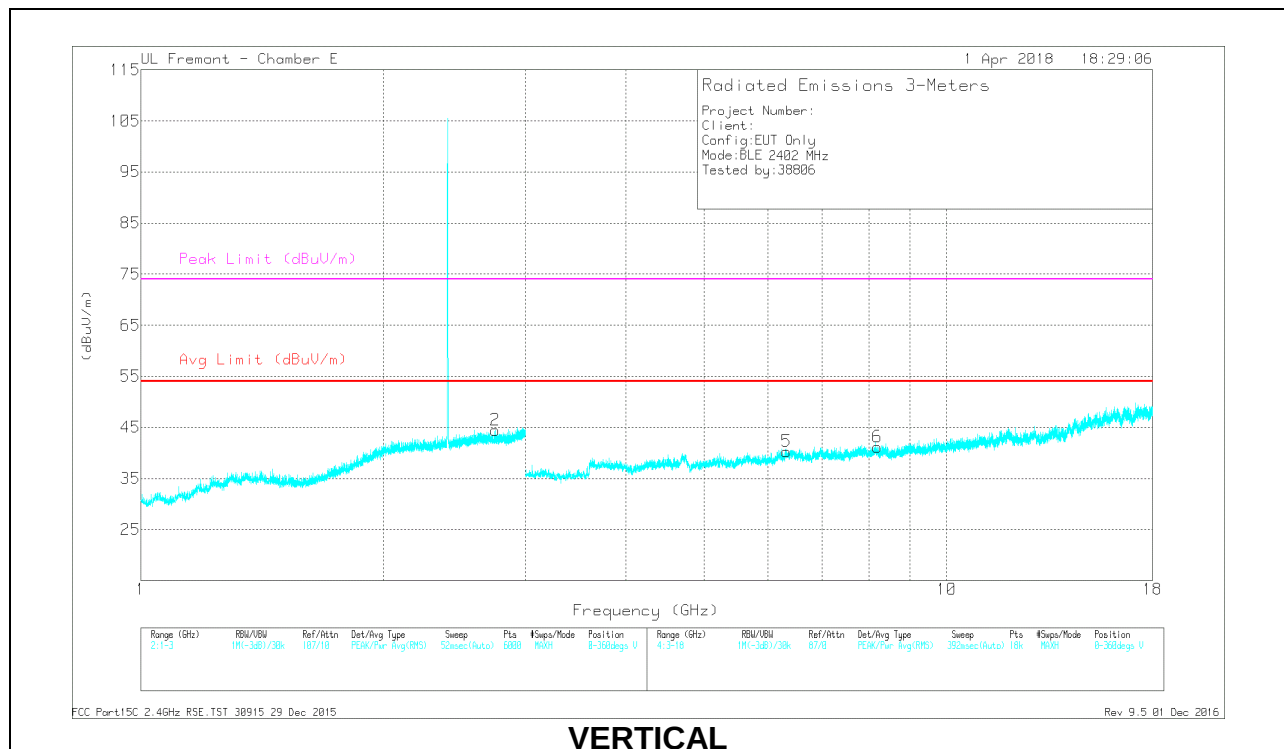
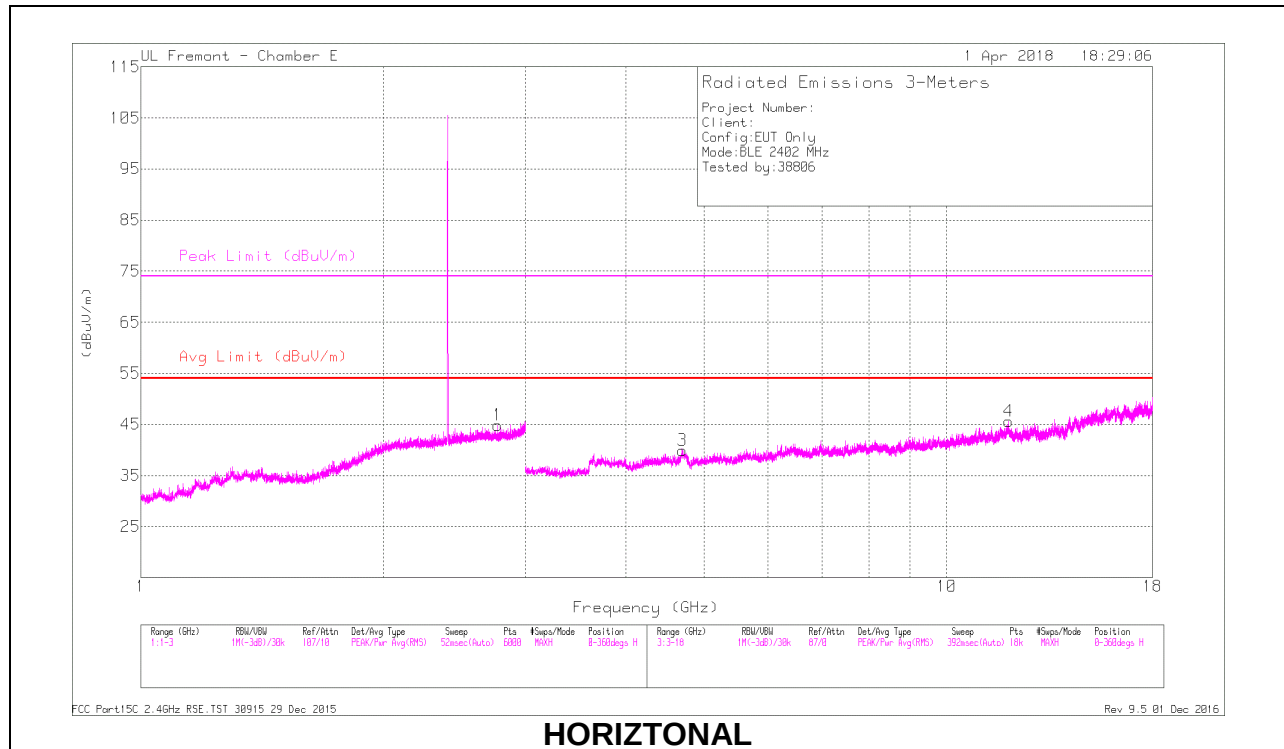
RMS - RMS detection

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

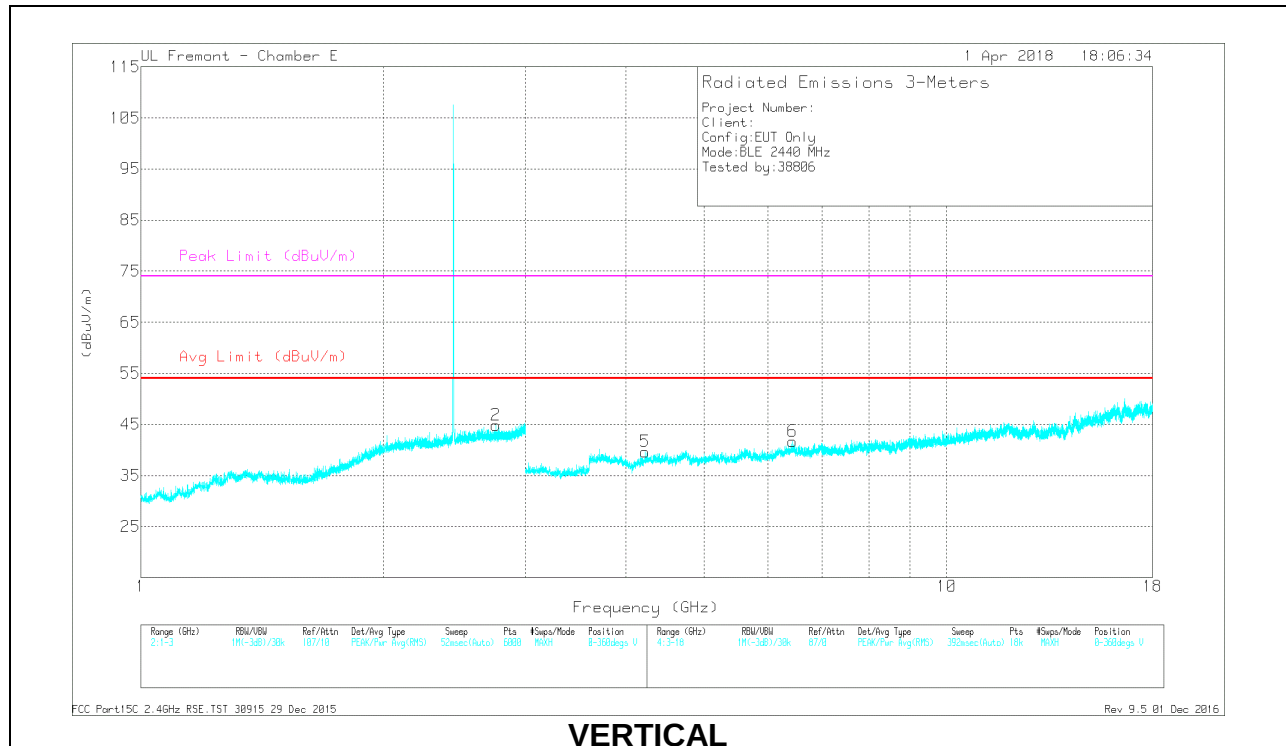
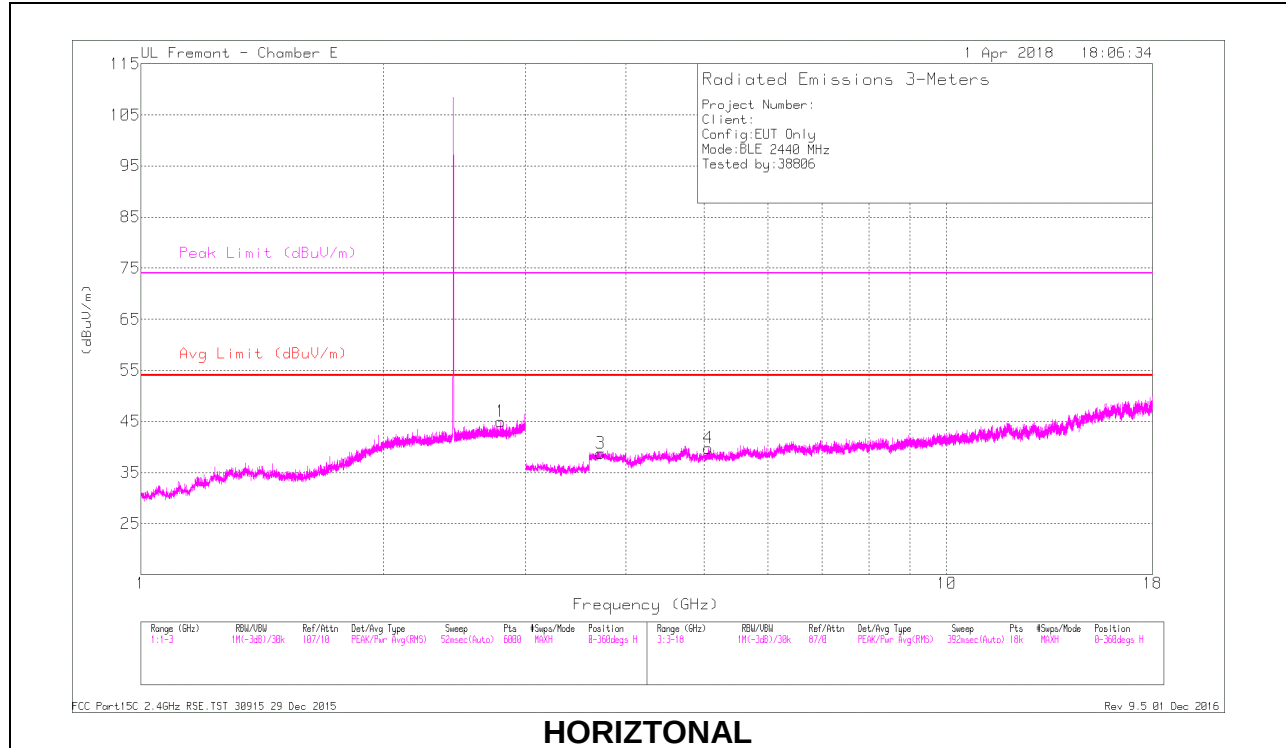
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.771	38.48	PK2	32.6	-19.3	51.78	-	-	74	-22.22	263	174	H
	* 2.769	18.49	MAv1	32.6	-19.3	31.79	54	-22.21	-	-	263	174	H
2	* 2.75	38.75	PK2	32.5	-19.2	52.05	-	-	74	-21.95	312	153	V
	* 2.751	18.21	MAv1	32.5	-19.2	31.51	54	-22.49	-	-	312	153	V
3	* 4.701	41.39	PK2	34.4	-28.9	46.89	-	-	74	-27.11	182	229	H
	* 4.702	29.07	MAv1	34.4	-28.8	34.67	54	-19.33	-	-	182	229	H
4	* 11.931	34.59	PK2	39.5	-21.9	52.19	-	-	74	-21.81	275	208	H
	* 11.93	22.24	MAv1	39.5	-21.9	39.84	54	-14.16	-	-	275	208	H
5	6.329	40.08	PK2	36.1	-28.5	47.68	-	-	-	-	222	161	V
6	* 8.199	37.21	PK2	36.5	-25.6	48.11	-	-	74	-25.89	147	235	V
	* 8.2	25.24	MAv1	36.5	-25.6	36.14	54	-17.86	-	-	147	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



RADIATED EMISSIONS

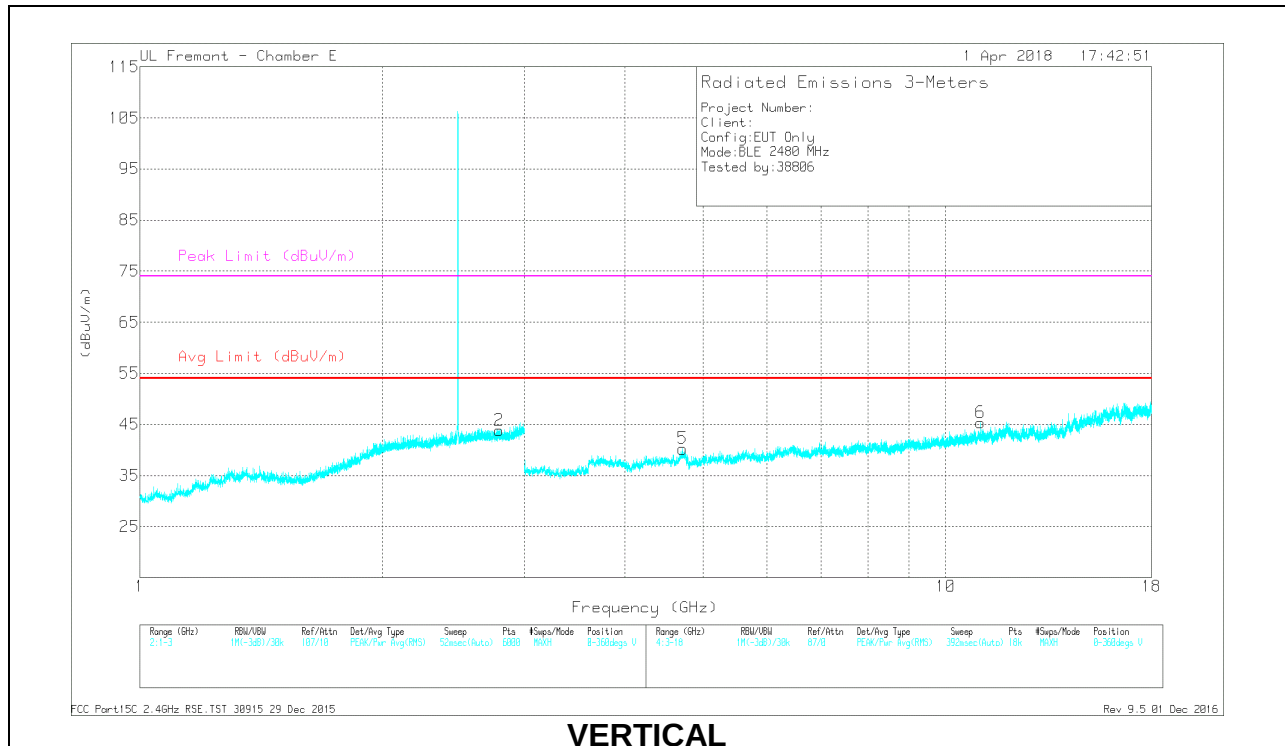
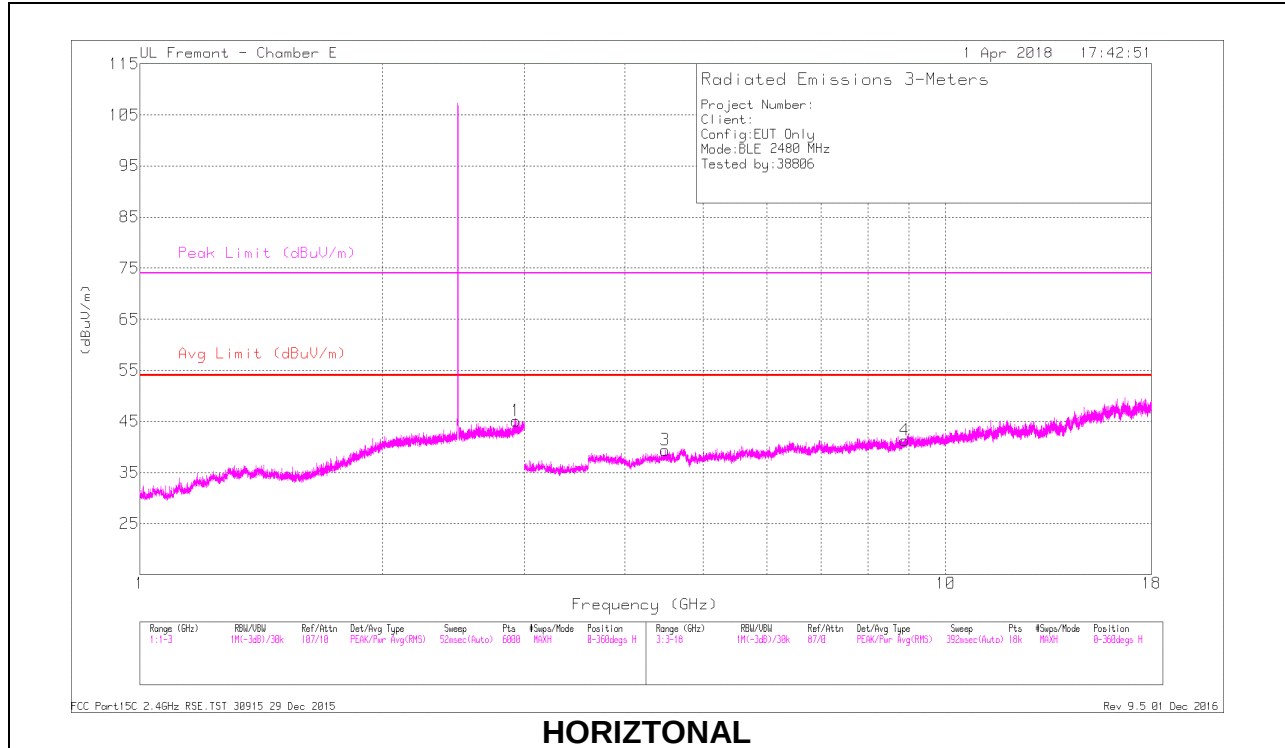
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.799	38.57	PK2	32.6	-19.3	51.87	-	-	74	-22.13	290	216	H
	* 2.796	18.75	MAv1	32.6	-19.3	32.05	54	-21.95	-	-	290	216	H
2	* 2.757	38.41	PK2	32.5	-19.2	51.71	-	-	74	-22.29	172	174	V
	* 2.755	20.69	MAv1	32.5	-19.2	33.99	54	-20.01	-	-	172	174	V
3	* 3.719	41.63	PK2	33.5	-29.8	45.33	-	-	74	-28.67	152	206	H
	* 3.723	29.19	MAv1	33.5	-29.7	32.99	54	-21.01	-	-	152	206	H
4	* 5.061	40.49	PK2	34.6	-29.1	45.99	-	-	74	-28.01	263	129	H
	* 5.06	28.84	MAv1	34.6	-29.1	34.34	54	-19.66	-	-	263	129	H
5	* 4.228	40.63	PK2	33.7	-28.6	45.73	-	-	74	-28.27	342	241	V
	* 4.227	28.11	MAv1	33.7	-28.6	33.21	54	-20.79	-	-	342	241	V
6	6.435	40.61	PK2	36.2	-27.3	49.51	-	-	-	-	235	205	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 T712 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.926	38.26	PK2	32.8	-18.9	52.16	-	-	-	-	152	113	H
2	* 2.789	38.35	PK2	32.6	-19.4	51.55	-	-	74	-22.45	88	217	V
	* 2.79	18.33	MAV1	32.6	-19.4	31.53	54	-22.47	-	-	88	217	V
3	4.489	41.45	PK2	34.4	-29.3	46.55	-	-	-	-	215	156	H
4	8.887	37.04	PK2	36.8	-24.8	49.04	-	-	-	-	335	265	H
5	* 4.718	41.71	PK2	34.4	-28.4	47.71	-	-	74	-26.29	209	214	V
	* 4.716	29.46	MAV1	34.4	-28.5	35.36	54	-18.64	-	-	209	214	V
6	* 11.047	35.55	PK2	38.5	-23.1	50.95	-	-	74	-23.05	310	200	V
	* 11.049	22.98	MAV1	38.5	-23.1	38.38	54	-15.62	-	-	310	200	V

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

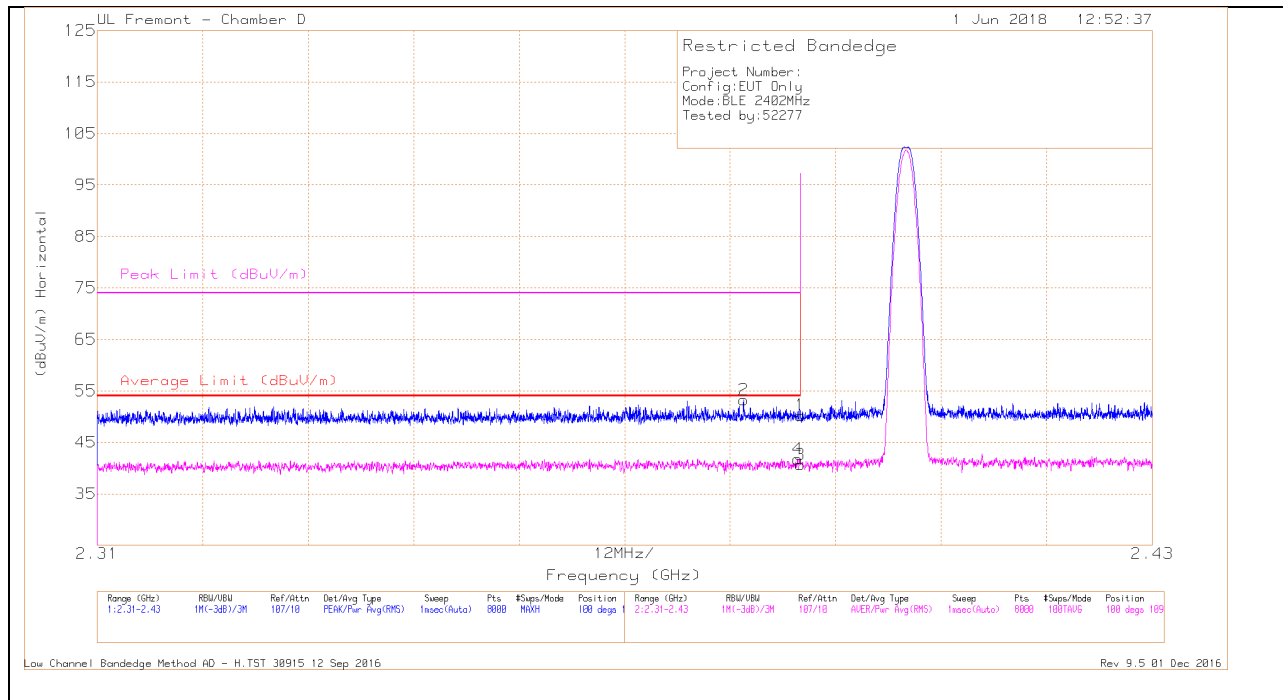
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.86	Pk	31.9	-20.5	50.26	-	-	74	-23.74	100	109	H
2	* 2.384	41.95	Pk	31.8	-20.5	53.25	-	-	74	-20.75	100	109	H
3	* 2.39	29.25	RMS	31.9	-20.5	40.65	54	-13.35	-	-	100	109	H
4	* 2.39	30.36	RMS	31.9	-20.5	41.76	54	-12.24	-	-	100	109	H

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

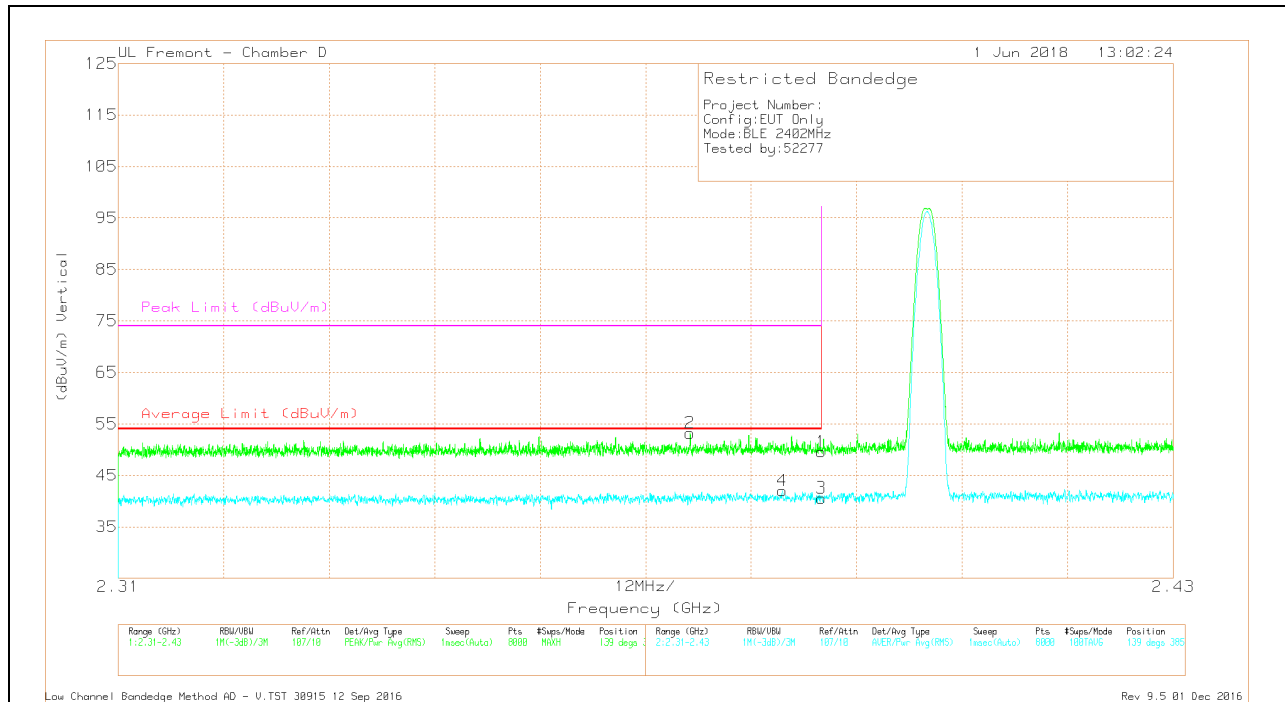
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filr/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	38.16	Pk	31.9	-20.5	49.56	-	-	74	-24.44	139	385	V
2	* 2.375	41.91	Pk	31.8	-20.5	53.21	-	-	74	-20.79	139	385	V
3	* 2.39	29.2	RMS	31.9	-20.5	40.6	54	-13.4	-	-	139	385	V
4	* 2.386	30.6	RMS	31.9	-20.5	42	54	-12	-	-	139	385	V

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

Pk - Peak detector

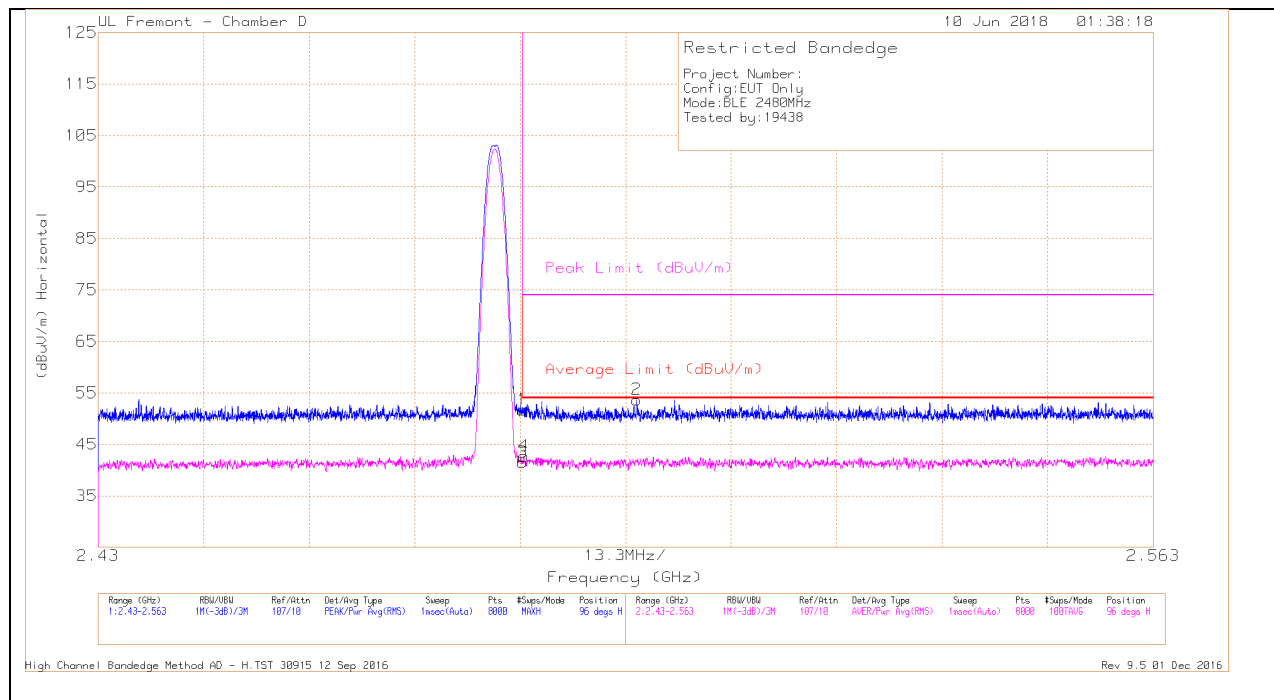
RMS - RMS detection

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BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.75	Pk	32.4	-20.4	51.75	-	-	74	-22.25	96	215	H
2	* 2.498	41.69	Pk	32.4	-20.4	53.69	-	-	74	-20.31	96	215	H
3	* 2.484	29.52	RMS	32.4	-20.4	41.52	54	-12.48	-	-	96	215	H
4	* 2.484	30.81	RMS	32.4	-20.5	42.71	54	-11.29	-	-	96	215	H

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

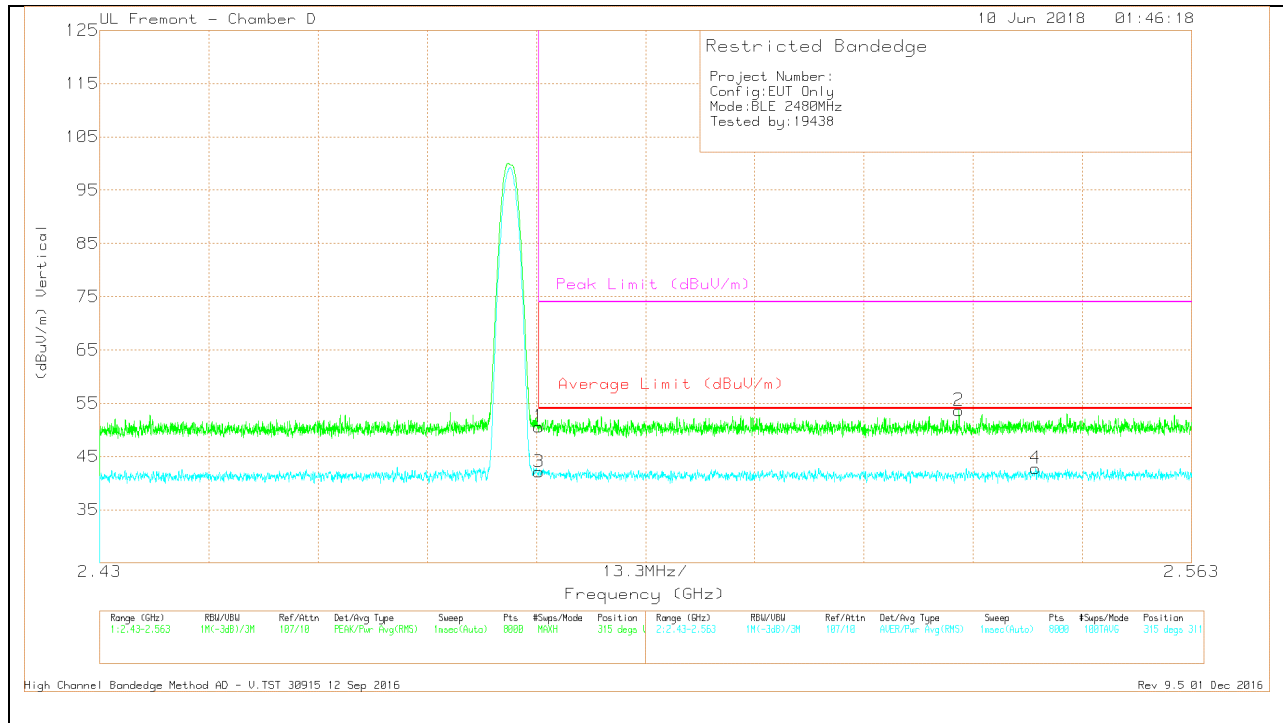
Pk - Peak detector

RMS - RMS detection

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T136 (dB/m)	Amp/Cb/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	* 2.484	38.62	Pk	32.4	-20.4	50.62	-	-	74	-23.38	315	311	V
3	* 2.484	30.11	RMS	32.4	-20.4	42.11	54	-11.89	-	-	315	311	V
2	2.535	41.75	Pk	32.4	-20.5	53.65	-	-	74	-20.35	315	311	V
4	2.544	30.7	RMS	32.4	-20.3	42.8	54	-11.2	-	-	315	311	V

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

Pk - Peak detector

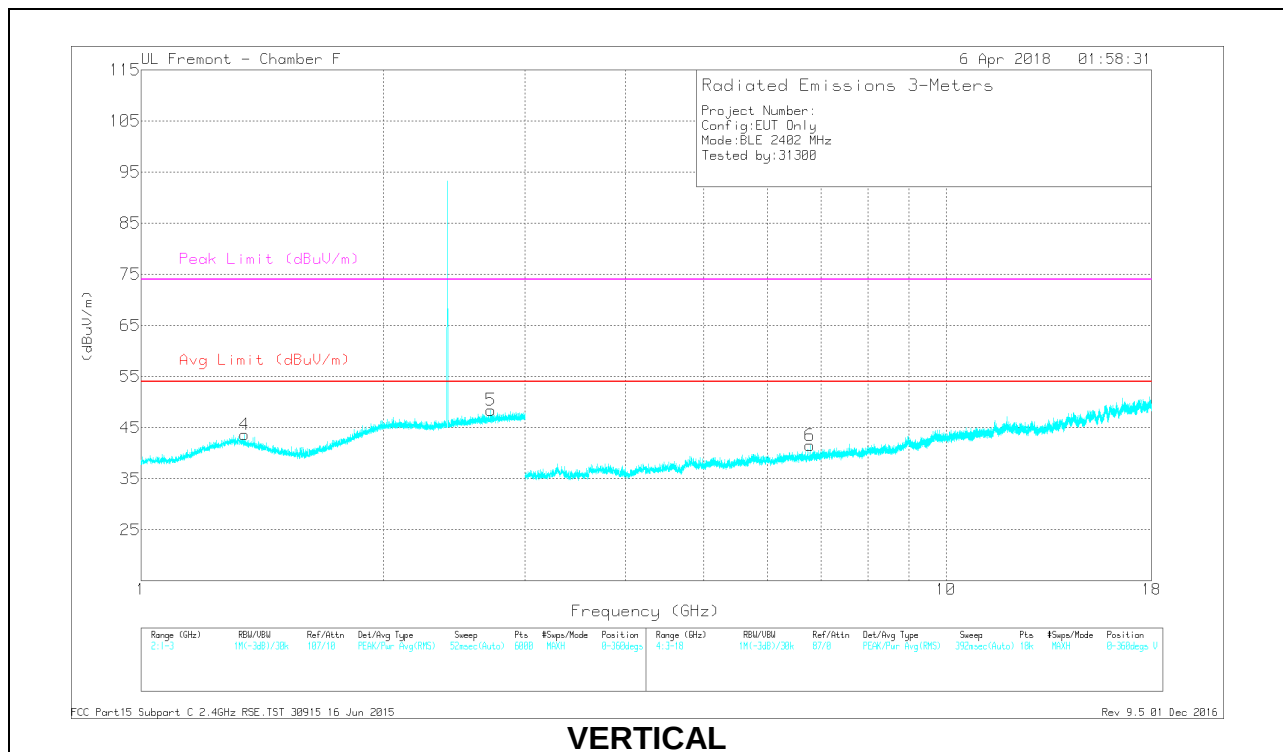
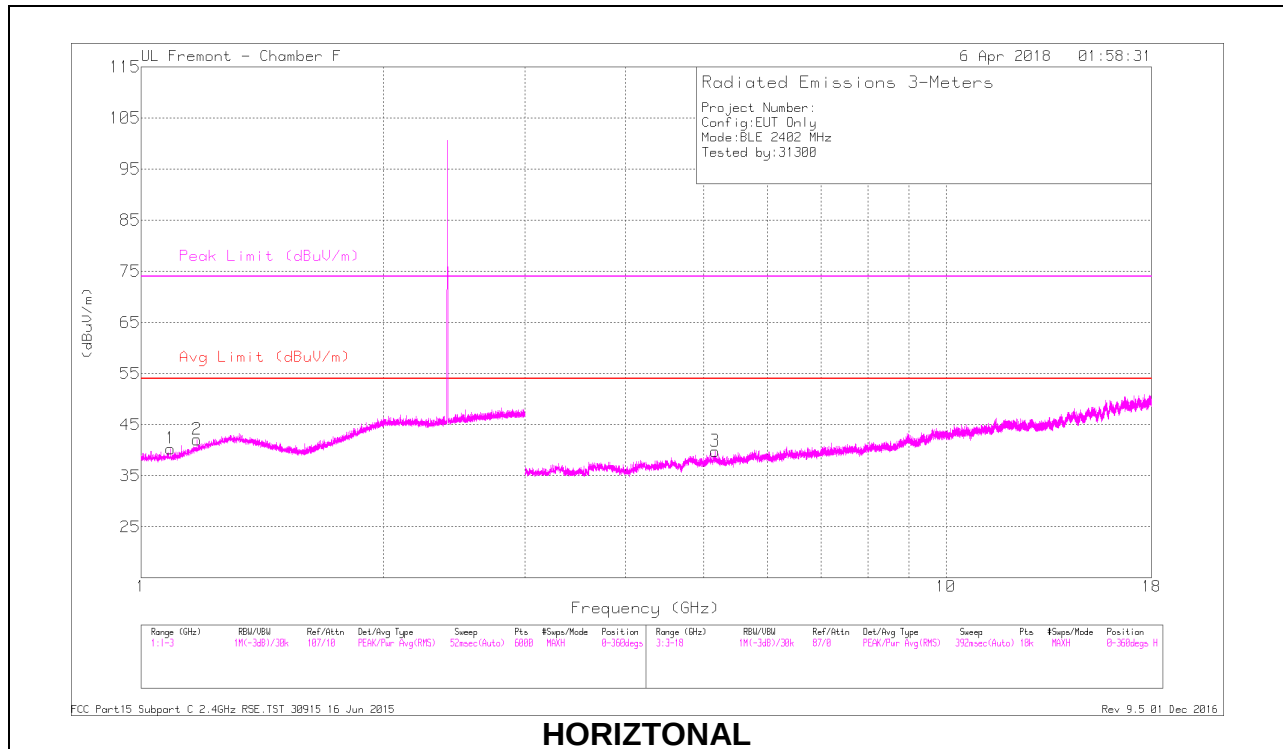
RMS - RMS detection

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

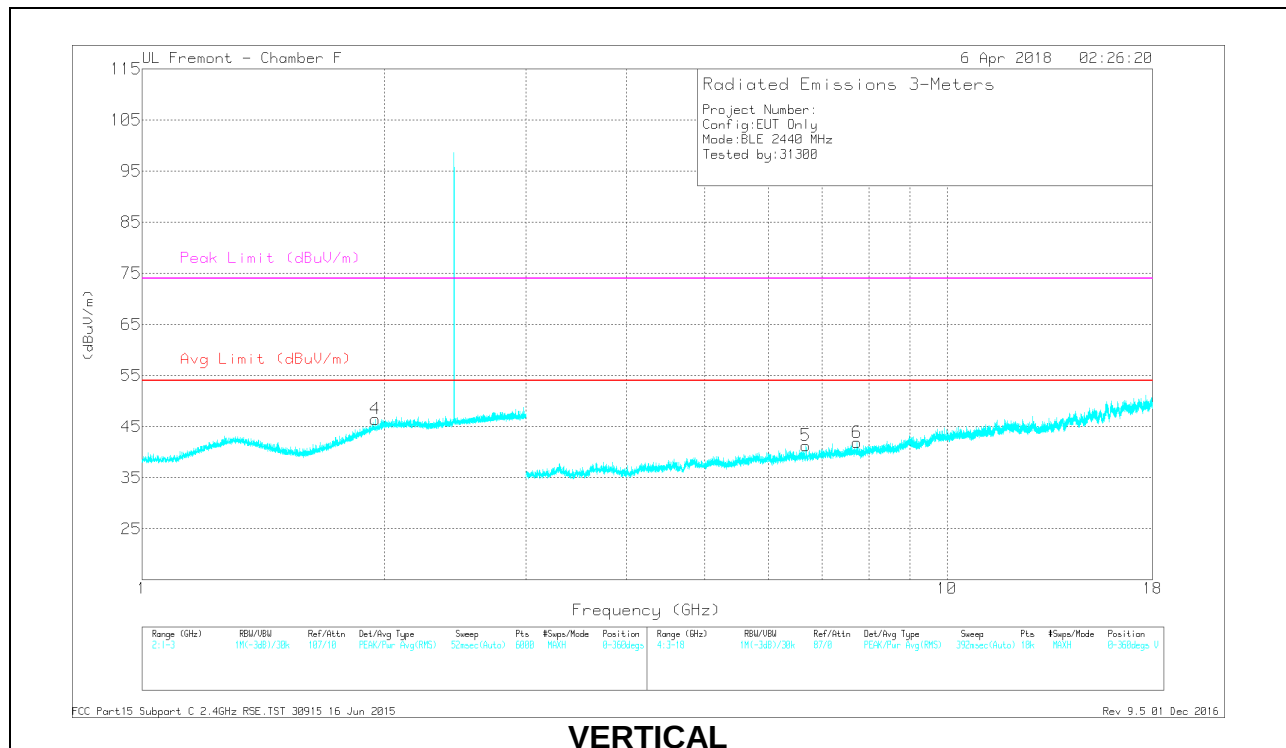
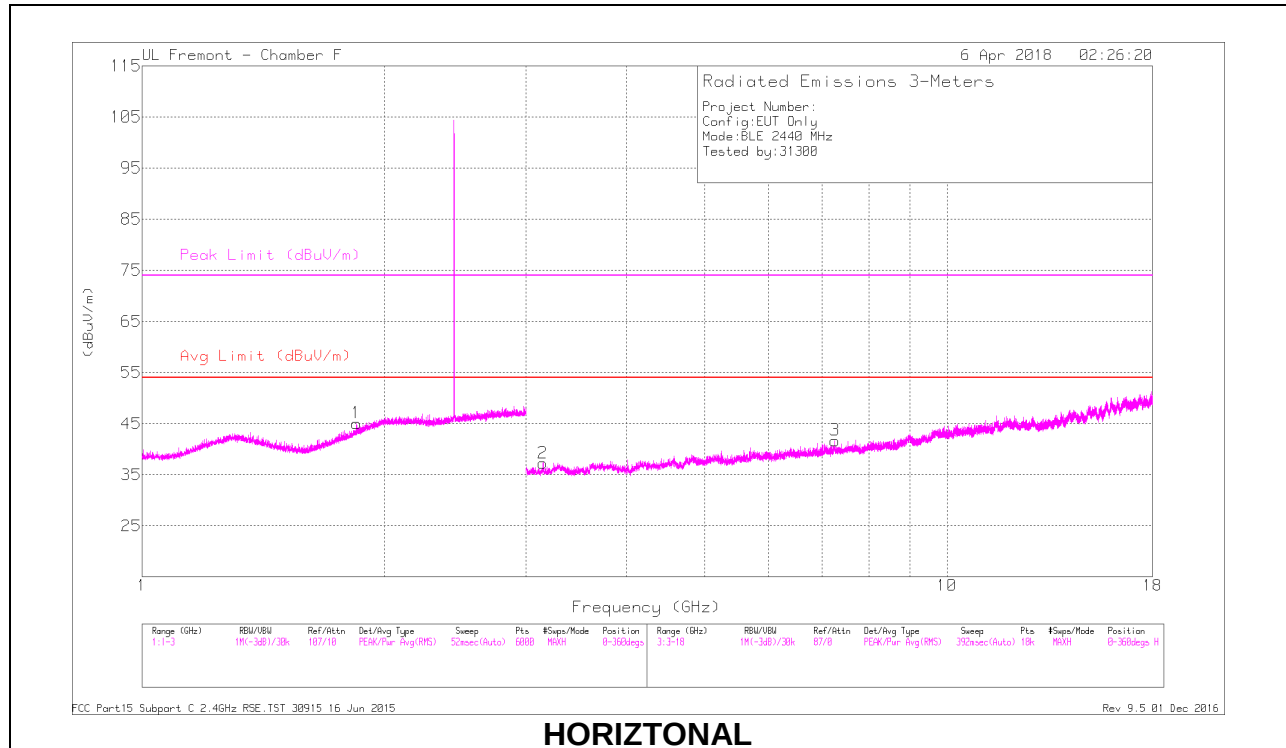
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.086	42.15	PK2	26.8	-22.5	46.45	-	-	74	-27.55	184	202	H
	* 1.09	30.39	MAv1	26.8	-22.5	34.69	54	-19.31	-	-	184	202	H
2	* 1.175	42.83	PK2	28.3	-22.4	48.73	-	-	74	-25.27	286	223	H
	* 1.173	30.26	MAv1	28.3	-22.3	36.26	54	-17.74	-	-	286	223	H
4	* 1.343	42.44	PK2	29.7	-21.9	50.24	-	-	74	-23.76	65	131	V
	* 1.343	30.09	MAv1	29.7	-21.9	37.89	54	-16.11	-	-	65	131	V
5	* 2.721	42.28	PK2	32.6	-20.3	54.58	-	-	74	-19.42	291	101	V
	* 2.723	29.99	MAv1	32.6	-20.3	42.29	54	-11.71	-	-	291	101	V
3	5.17	38.28	PK2	34.5	-26.4	46.38	-	-	-	-	295	104	H
6	6.776	37.31	PK2	35.6	-26	46.91	-	-	-	-	323	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

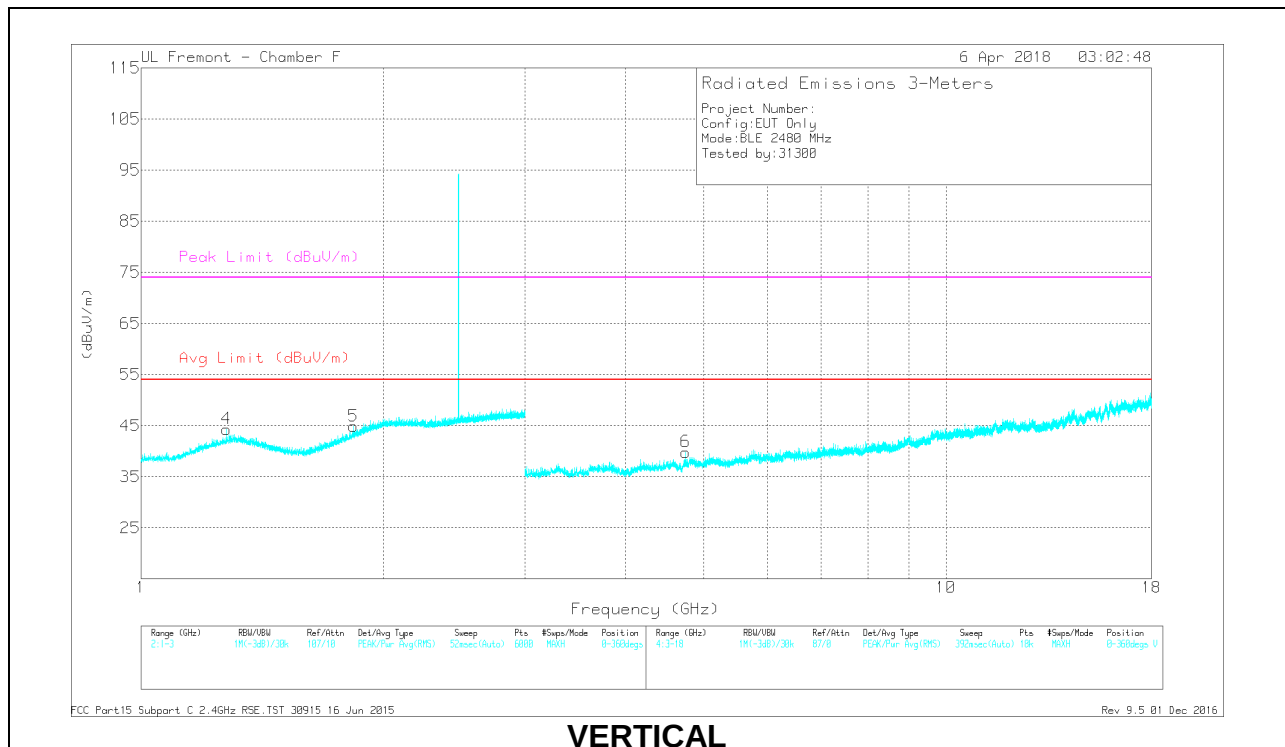
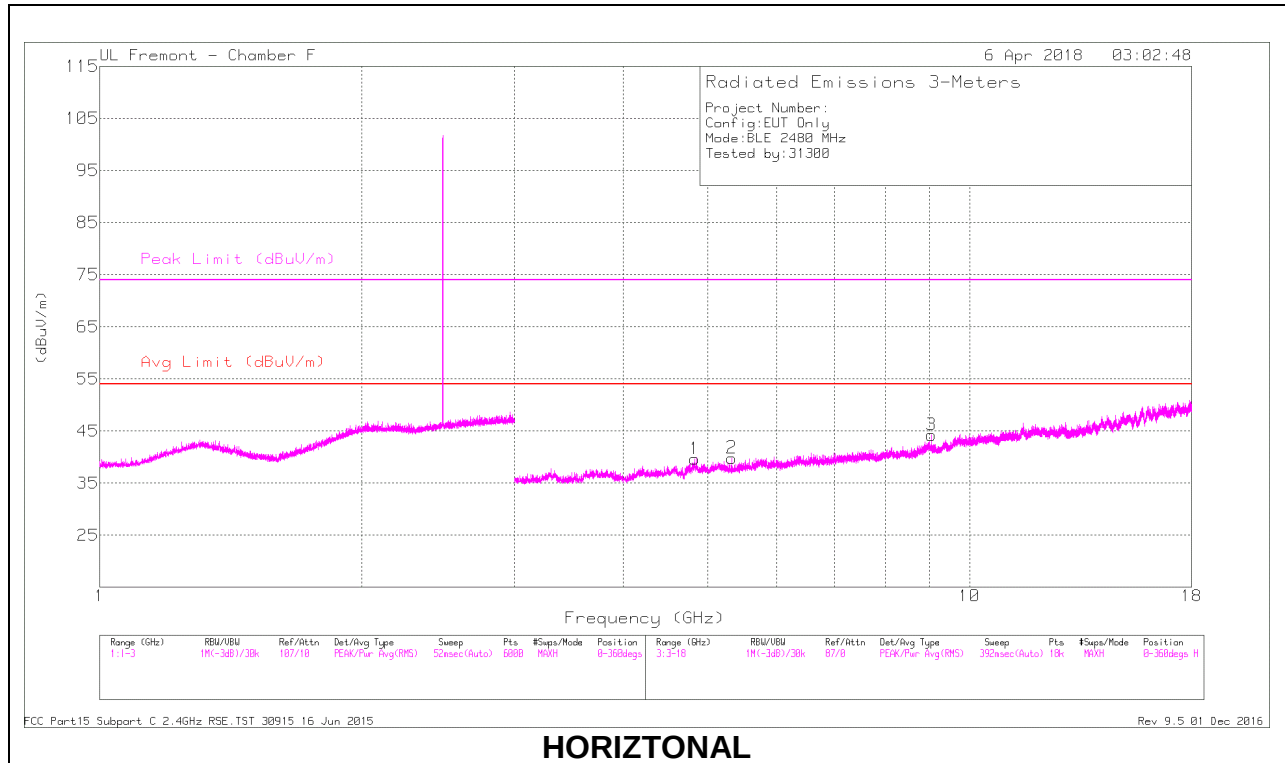
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.846	42.28	PK2	30.4	-21.1	51.58	-	-	-	-	42	112	H
4	1.95	42.38	PK2	31.8	-21.1	53.08	-	-	-	-	339	202	V
2	3.145	40.36	PK2	32.9	-29.2	44.06	-	-	-	-	205	221	H
3	* 7.259	37.23	PK2	35.9	-25.6	47.53	-	-	74	-26.47	6	197	H
	* 7.258	25.71	MAv1	35.9	-25.6	36.01	54	-17.99	-	-	6	197	H
5	6.684	37.23	PK2	35.7	-26.2	46.73	-	-	-	-	143	200	V
6	* 7.731	37.11	PK2	36	-24.8	48.31	-	-	74	-25.69	106	200	V
	* 7.732	25.15	MAv1	36	-24.8	36.35	54	-17.65	-	-	106	200	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 T119 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.28	42.59	PK2	29.9	-22	50.49	-	-	74	-23.51	251	123	V
	* 1.277	30.21	MAv1	29.8	-22	38.01	54	-15.99	-	-	251	123	V
5	1.837	41.75	PK2	30.3	-21.1	50.95	-	-	-	-	107	181	V
1	* 4.831	37.89	PK2	34.2	-26.9	45.19	-	-	74	-28.81	230	121	H
	* 4.83	26.52	MAv1	34.2	-26.9	33.82	54	-20.18	-	-	230	121	H
2	5.333	38.51	PK2	34.7	-27.9	45.31	-	-	-	-	273	231	H
3	* 9.037	35.79	PK2	36.5	-22.4	49.89	-	-	74	-24.11	142	100	H
	* 9.036	23.51	MAv1	36.5	-22.3	37.71	54	-16.29	-	-	142	100	H
6	* 4.748	39.47	PK2	34.1	-27.7	45.87	-	-	74	-28.13	348	240	V
	* 4.745	27.72	MAv1	34.1	-27.8	34.02	54	-19.98	-	-	348	240	V

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

PK2 - KDB558074 Method: Maximum Peak

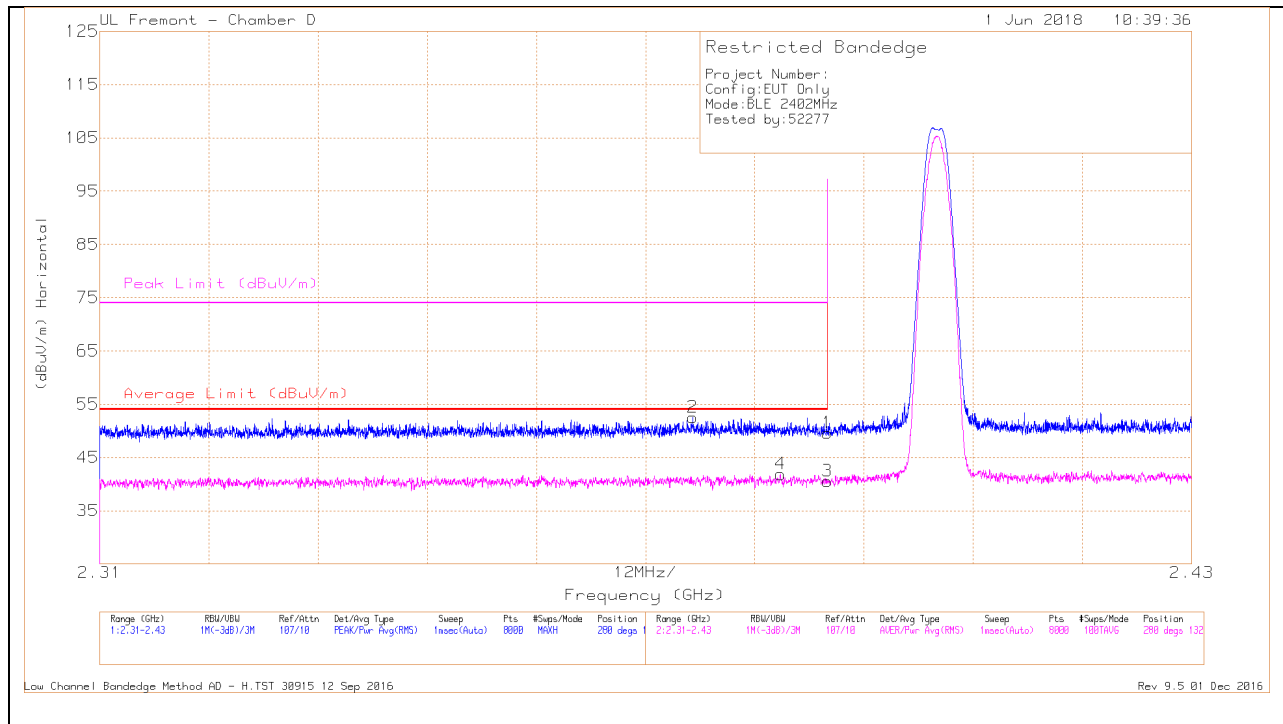
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.2. HIGH POWER BLE (2Mbps)

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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
2	* 2.375	41.22	Pk	31.8	-20.5	52.52	-	-	74	-21.48	280	132	H
4	* 2.385	30.45	RMS	31.9	-20.5	41.85	54	-12.15	-	-	280	132	H
1	* 2.39	38.19	Pk	31.9	-20.5	49.59	-	-	74	-24.41	280	132	H
3	* 2.39	29.15	RMS	31.9	-20.5	40.55	54	-13.45	-	-	280	132	H

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

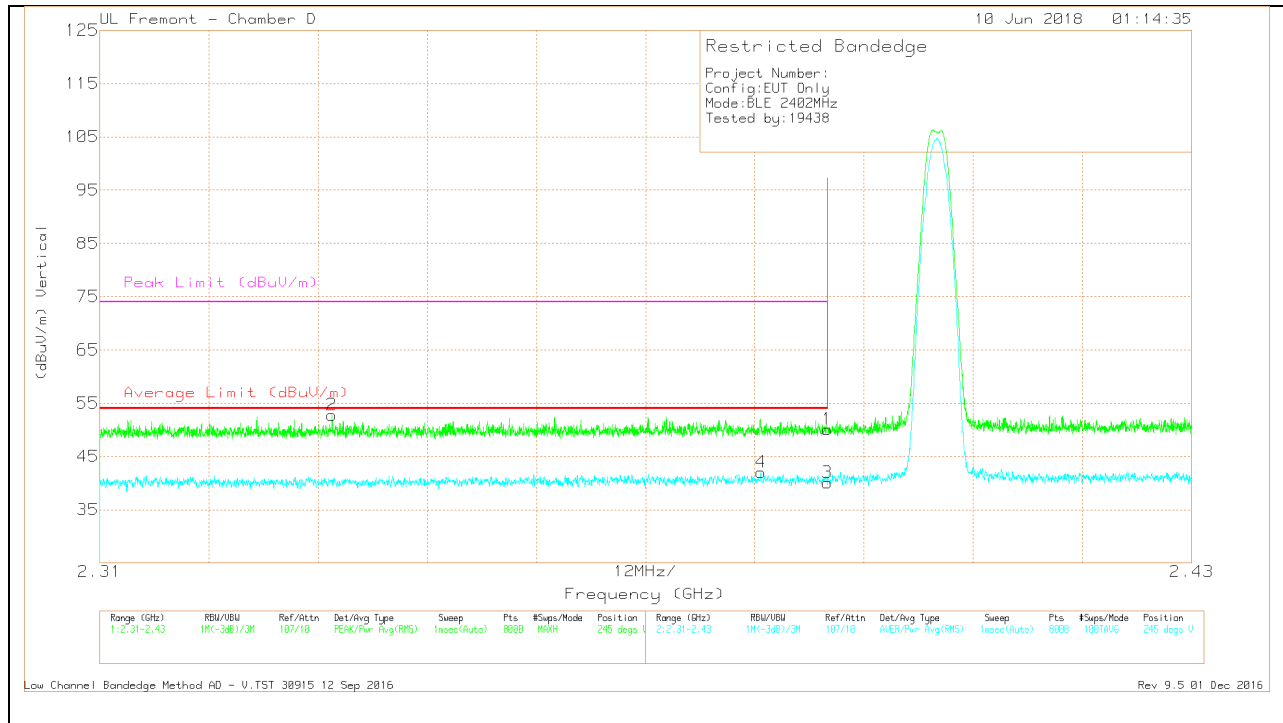
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	38.69	Pk	31.9	-20.5	50.09	-	-	74	-23.91	245	393	V
2	* 2.336	41.78	Pk	31.6	-20.6	52.78	-	-	74	-21.22	245	393	V
3	* 2.39	28.67	RMS	31.9	-20.5	40.07	54	-13.93	-	-	245	393	V
4	* 2.383	30.72	RMS	31.8	-20.5	42.02	54	-11.98	-	-	245	393	V

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

Pk - Peak detector

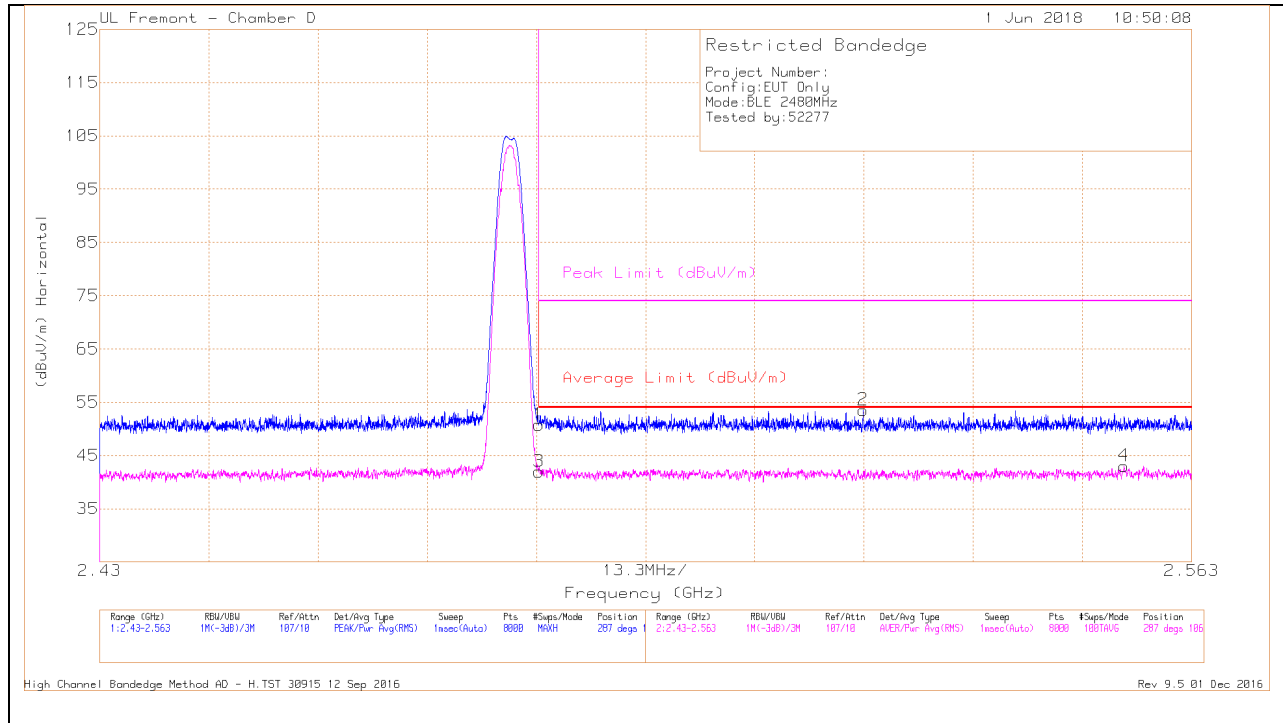
RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH 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	* 2.484	38.78	Pk	32.4	-20.4	50.78	-	-	74	-23.22	287	106	H
3	* 2.484	29.98	RMS	32.4	-20.4	41.98	54	-12.02	-	-	287	106	H
2	2.523	41.55	Pk	32.4	-20.4	53.55	-	-	74	-20.45	287	106	H
4	2.555	30.84	RMS	32.5	-20.3	43.04	54	-10.96	-	-	287	106	H

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

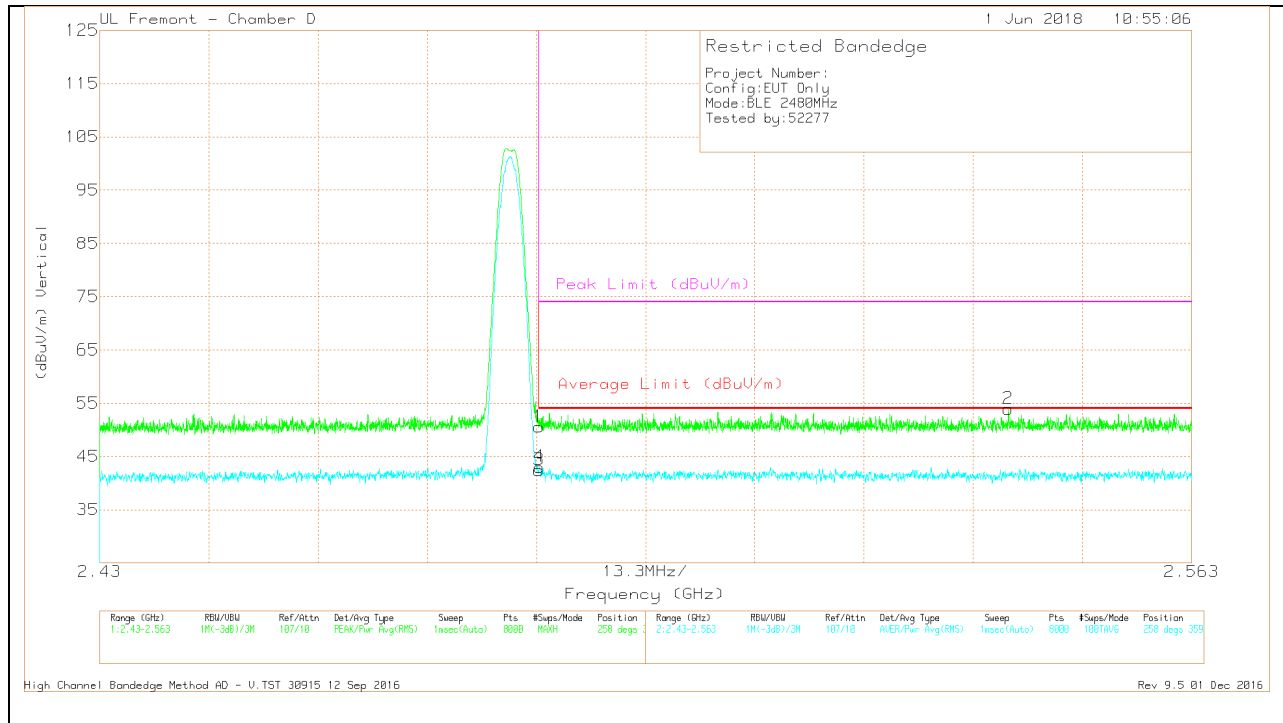
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.484	38.54	Pk	32.4	-20.4	50.54	-	-	74	-23.46	258	359	V
3	* 2.484	30.46	RMS	32.4	-20.4	42.46	54	-11.54	-	-	258	359	V
4	* 2.484	31.15	RMS	32.4	-20.5	43.05	54	-10.95	-	-	258	359	V
2	2.541	41.85	Pk	32.4	-20.3	53.95	-	-	74	-20.05	258	359	V

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

Pk - Peak detector

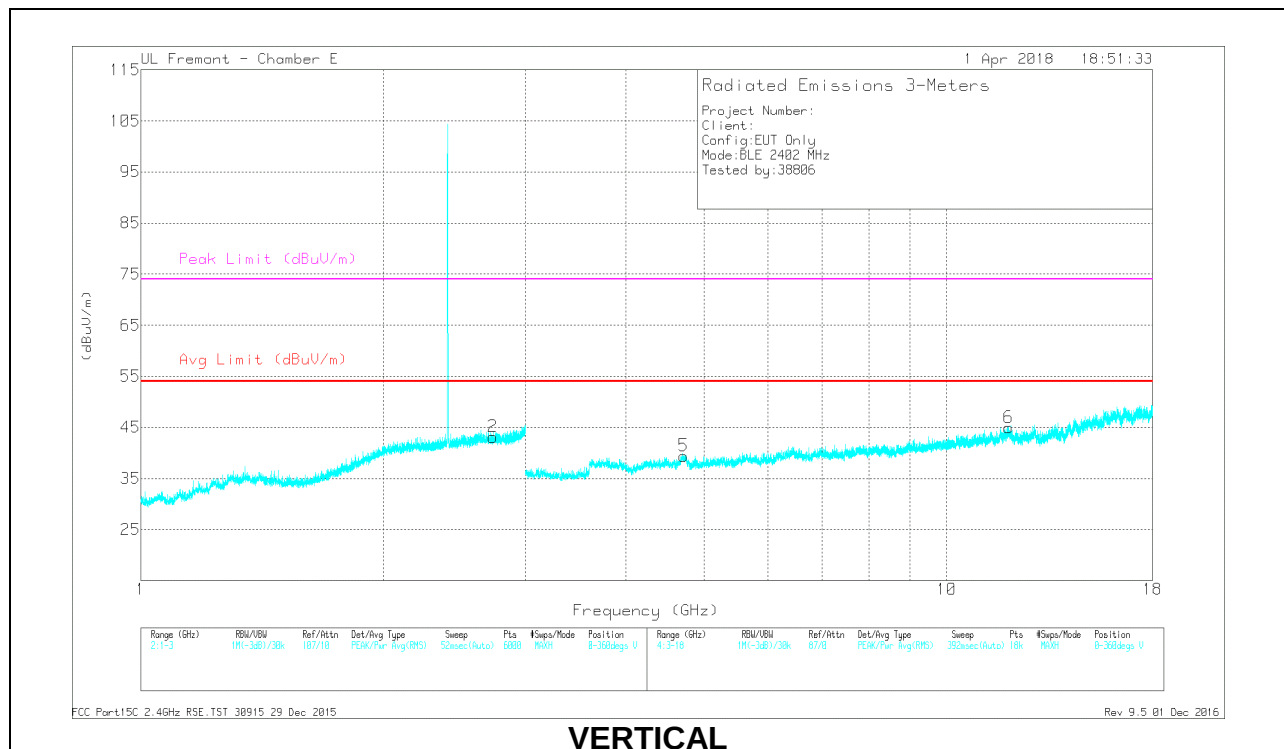
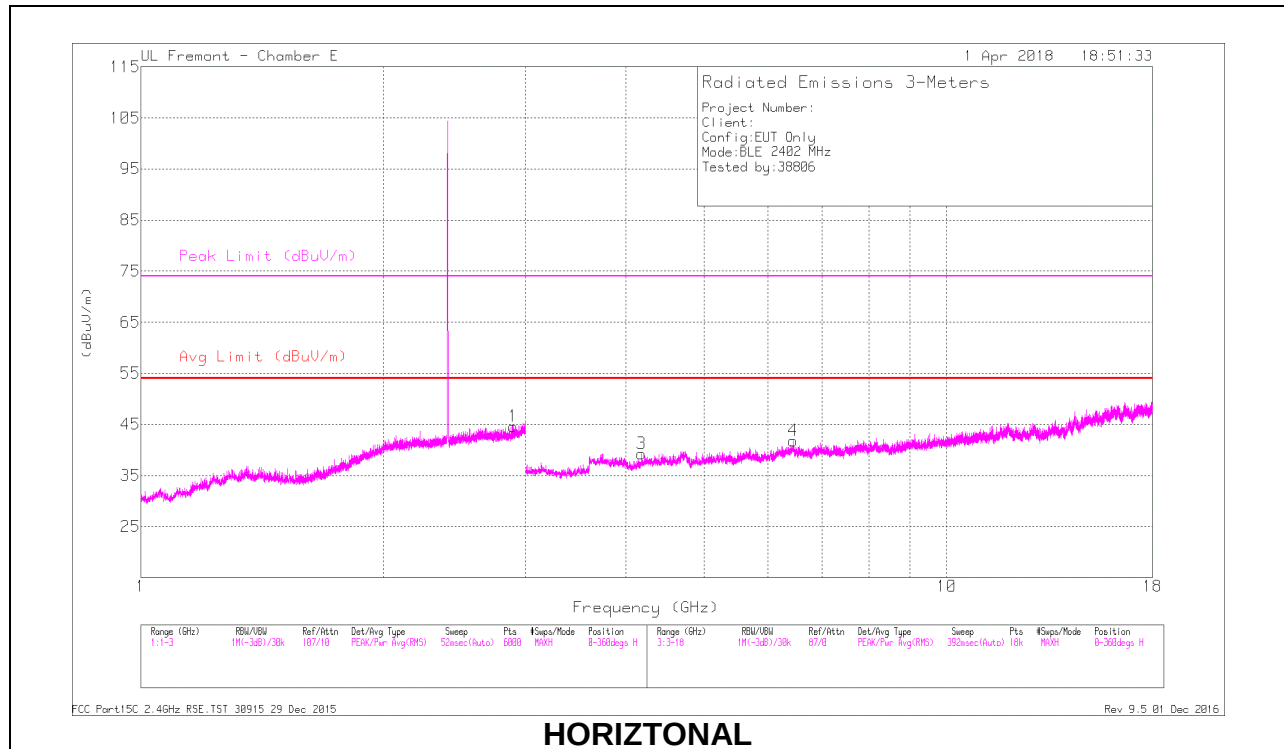
RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

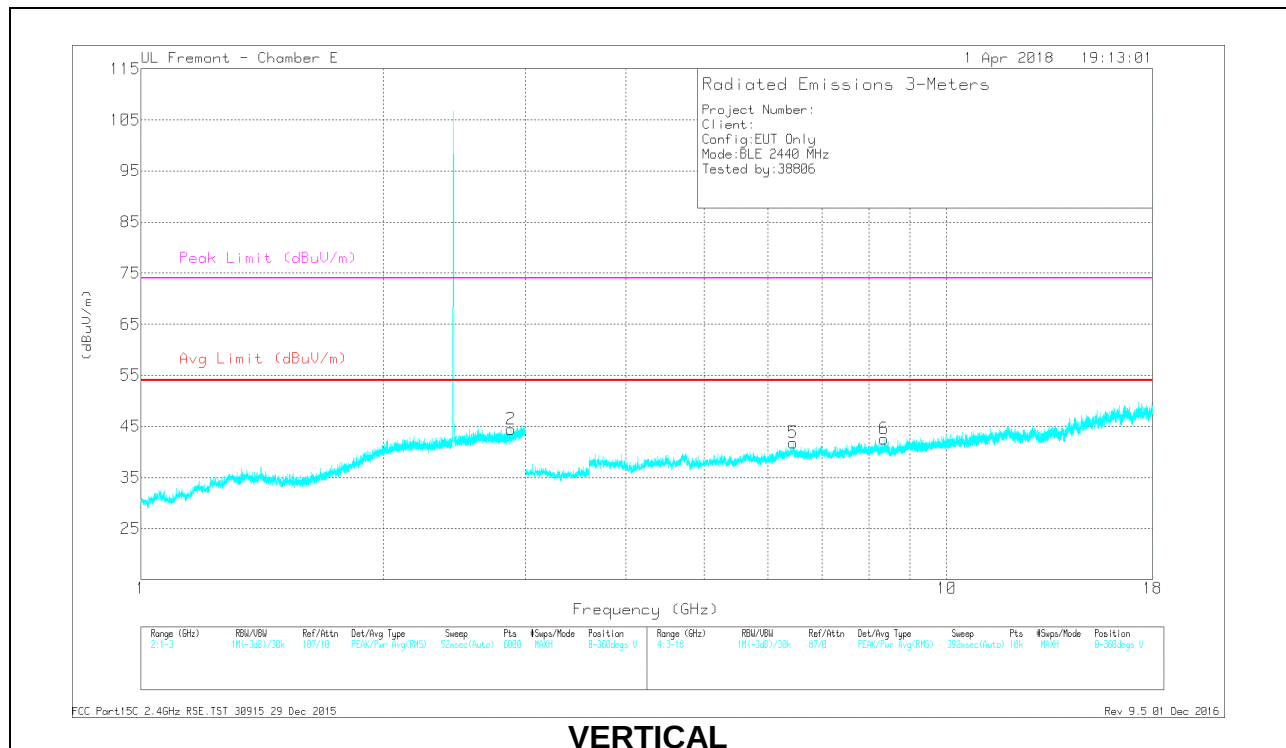
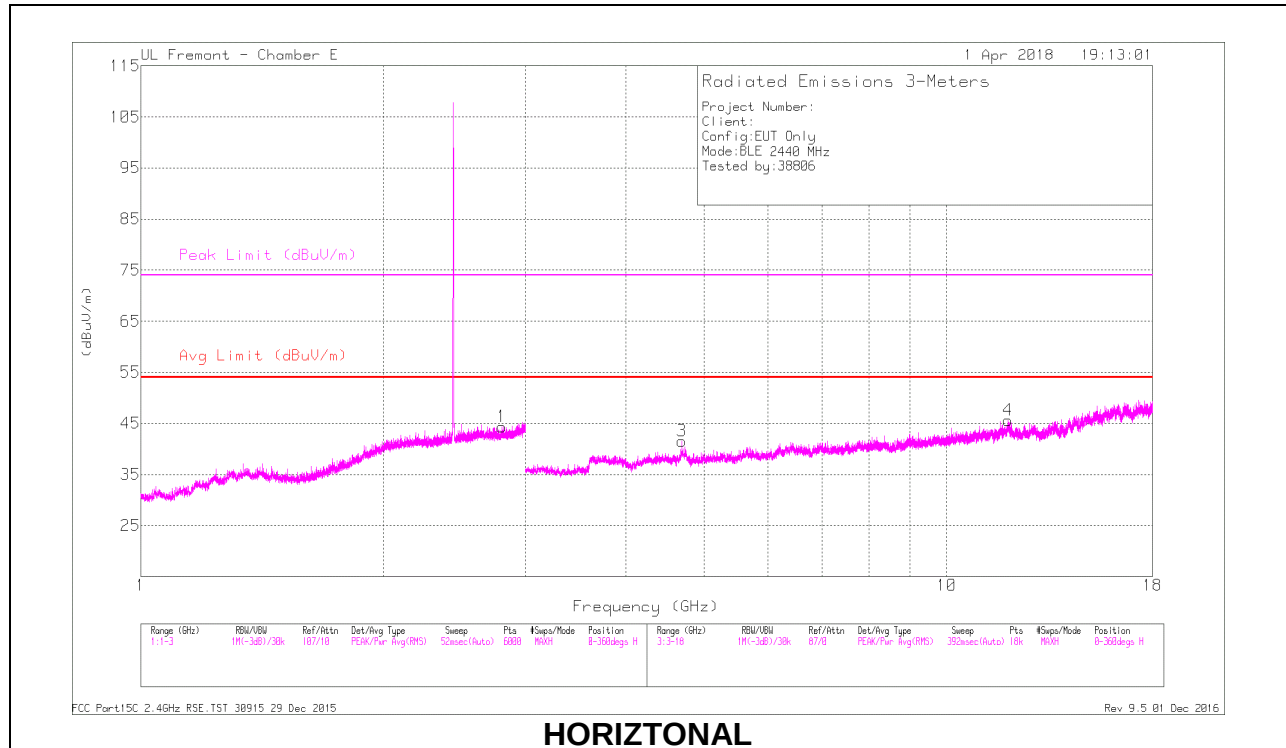
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.899	38.27	PK2	32.8	-19.1	51.97	-	-	74	-22.03	97	128	H
	* 2.899	20.08	MAv1	32.8	-19.1	33.78	54	-20.22	-	-	97	128	H
2	* 2.734	38.13	PK2	32.5	-19.4	51.23	-	-	74	-22.77	263	212	V
	* 2.735	18.83	MAv1	32.5	-19.4	31.93	54	-22.07	-	-	263	212	V
3	* 4.181	40.71	PK2	33.7	-29.4	45.01	-	-	74	-28.99	201	156	H
	* 4.184	28.48	MAv1	33.7	-29.3	32.88	54	-21.12	-	-	201	156	H
4	6.444	40.15	PK2	36.2	-27.2	49.15	-	-	-	-	137	265	H
	* 4.715	41.26	PK2	34.4	-28.5	47.16	-	-	74	-26.84	300	220	V
	* 4.716	29.31	MAv1	34.4	-28.4	35.31	54	-18.69	-	-	300	220	V
6	* 11.933	35.59	PK2	39.5	-22	53.09	-	-	74	-20.91	227	175	V
	* 11.931	22.75	MAv1	39.5	-21.9	40.35	54	-13.65	-	-	227	175	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

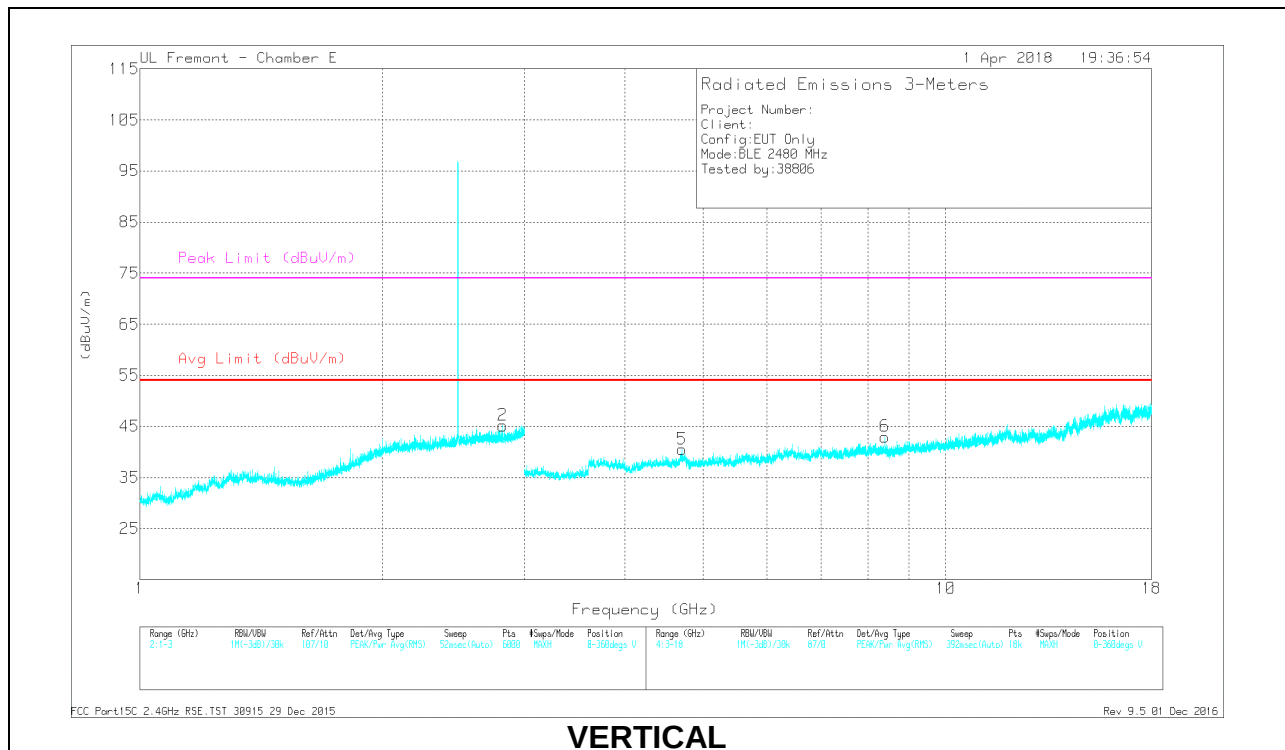
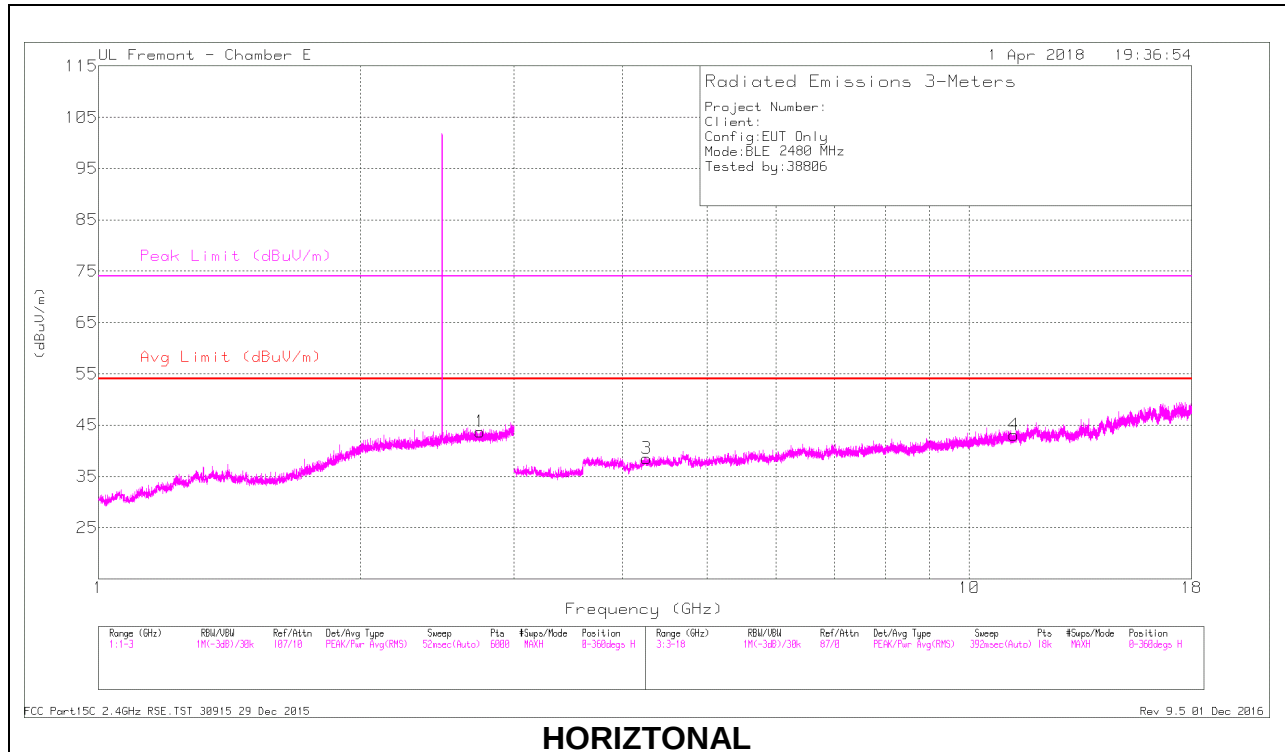
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.807	38.87	PK2	32.6	-19.3	52.17	-	-	74	-21.83	253	177	H
	* 2.804	18.36	MAv1	32.6	-19.3	31.66	54	-22.34	-	-	253	177	H
2	* 2.877	37.86	PK2	32.8	-19.1	51.56	-	-	74	-22.44	181	158	V
	* 2.881	19.98	MAv1	32.8	-19.1	33.68	54	-20.32	-	-	181	158	V
3	* 4.687	41.77	PK2	34.4	-29.1	47.07	-	-	74	-26.93	45	151	H
	* 4.688	29.64	MAv1	34.4	-29.1	34.94	54	-19.06	-	-	45	151	H
4	* 11.918	35.09	PK2	39.4	-22.1	52.39	-	-	74	-21.61	120	182	H
	* 11.918	22.7	MAv1	39.4	-22.1	40	54	-14	-	-	120	182	H
5	6.446	40.43	PK2	36.2	-27.2	49.43	-	-	-	-	229	130	V
6	* 8.366	37.03	PK2	36.5	-24.8	48.73	-	-	74	-25.27	107	276	V
	* 8.363	24	MAv1	36.5	-24.7	35.8	54	-18.2	-	-	107	276	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 T712 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.744	38.44	PK2	32.5	-19.3	51.64	-	-	74	-22.36	99	154	H
	* 2.744	18.71	MAv1	32.5	-19.3	31.91	54	-22.09	-	-	99	154	H
2	* 2.816	38.22	PK2	32.6	-19.2	51.62	-	-	74	-22.38	187	144	V
	* 2.819	20.58	MAv1	32.7	-19.2	34.08	54	-19.92	-	-	187	144	V
3	* 4.265	40.05	PK2	33.8	-28.5	45.35	-	-	74	-28.65	267	192	H
	* 4.265	28.28	MAv1	33.8	-28.5	33.58	54	-20.42	-	-	267	192	H
4	* 11.261	35.62	PK2	38.7	-23.3	51.02	-	-	74	-22.98	218	143	H
	* 11.261	23.37	MAv1	38.7	-23.3	38.77	54	-15.23	-	-	218	143	H
5	* 4.704	41.38	PK2	34.4	-28.7	47.08	-	-	74	-26.92	315	200	V
	* 4.702	30.1	MAv1	34.4	-28.8	35.7	54	-18.3	-	-	315	200	V
6	* 8.403	36.59	PK2	36.5	-24.9	48.19	-	-	74	-25.81	223	165	V
	* 8.4	24.99	MAv1	36.5	-24.8	36.69	54	-17.31	-	-	223	165	V

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

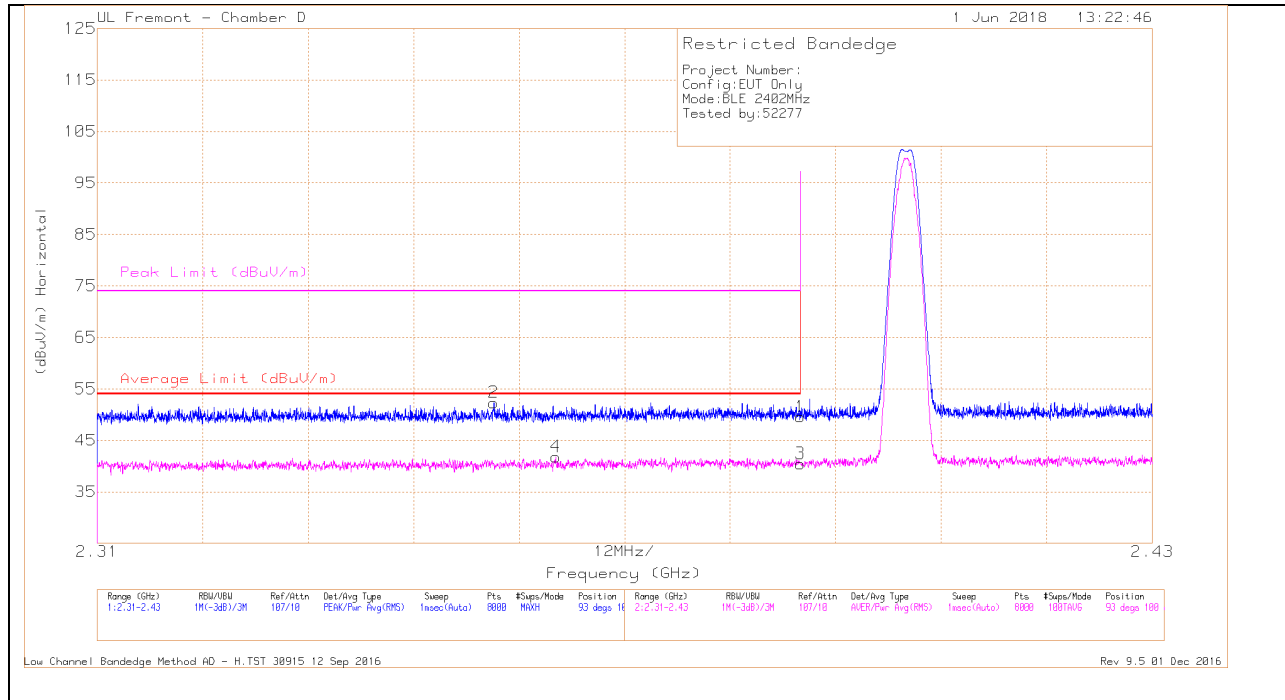
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.16	Pk	31.9	-20.5	49.56	-	-	74	-24.44	93	100	H
2	* 2.355	41.24	Pk	31.7	-20.6	52.34	-	-	74	-21.66	93	100	H
3	* 2.39	29.08	RMS	31.9	-20.5	40.48	54	-13.52	-	-	93	100	H
4	* 2.362	30.72	RMS	31.7	-20.6	41.82	54	-12.18	-	-	93	100	H

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

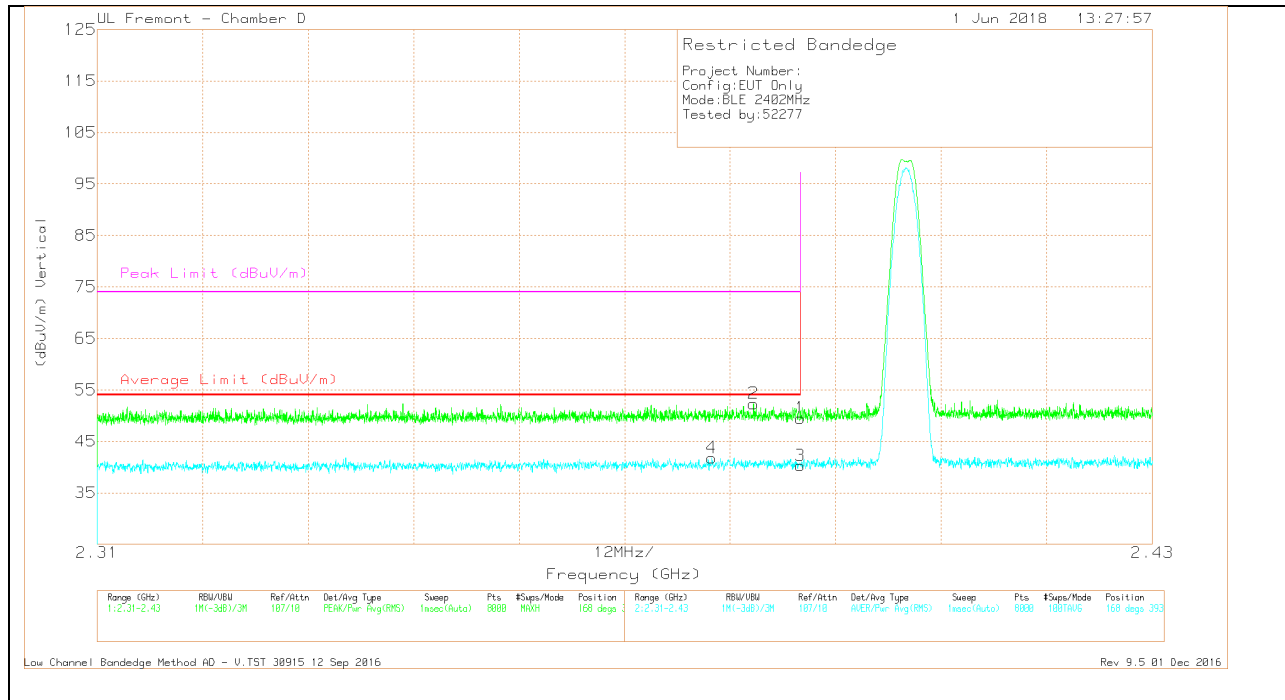
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fltr/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	38.13	Pk	31.9	-20.5	49.53	-	-	74	-24.47	168	393	V
2	* 2.385	40.94	Pk	31.9	-20.5	52.34	-	-	74	-21.66	168	393	V
3	* 2.39	28.88	RMS	31.9	-20.5	40.28	54	-13.72	-	-	168	393	V
4	* 2.38	30.41	RMS	31.8	-20.4	41.81	54	-12.19	-	-	168	393	V

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

Pk - Peak detector

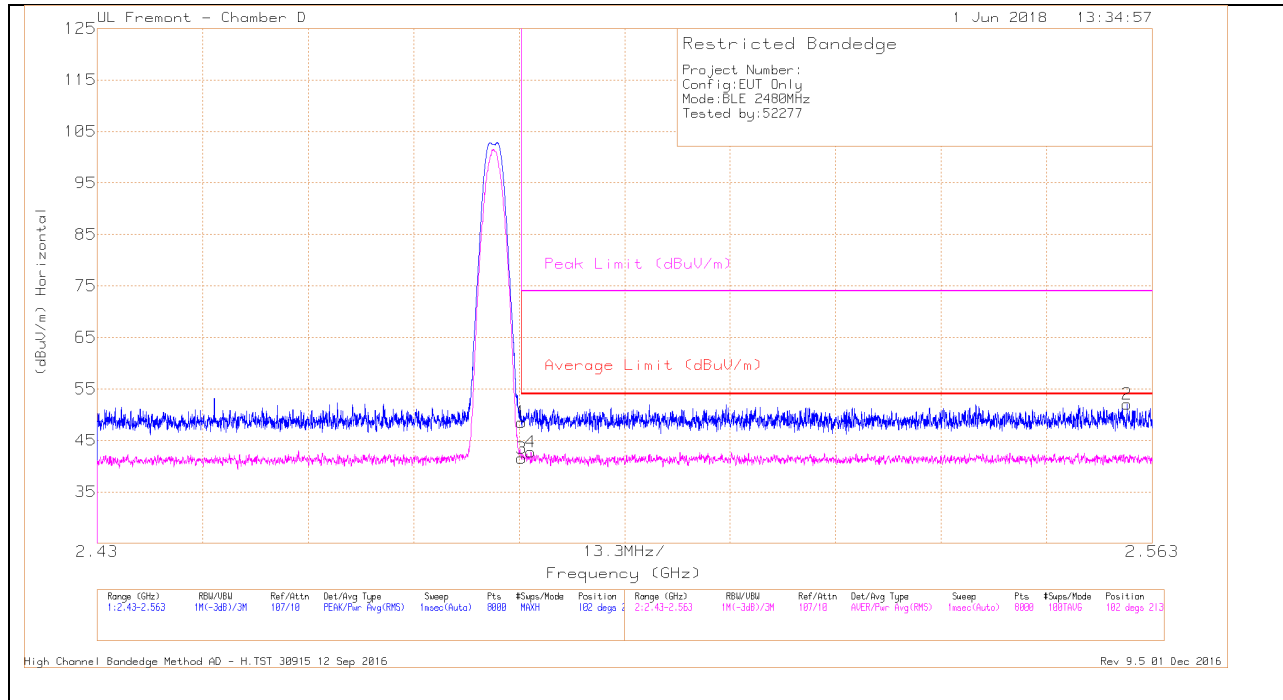
RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cb1/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	36.51	Pk	32.4	-20.4	48.51	-	-	74	-25.49	102	213	H
3	* 2.484	29.51	RMS	32.4	-20.4	41.51	54	-12.49	-	-	102	213	H
4	* 2.485	30.86	RMS	32.4	-20.5	42.76	54	-11.24	-	-	102	213	H
2	2.56	39.82	Pk	32.5	-20.3	52.02	-	-	74	-21.98	102	213	H

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

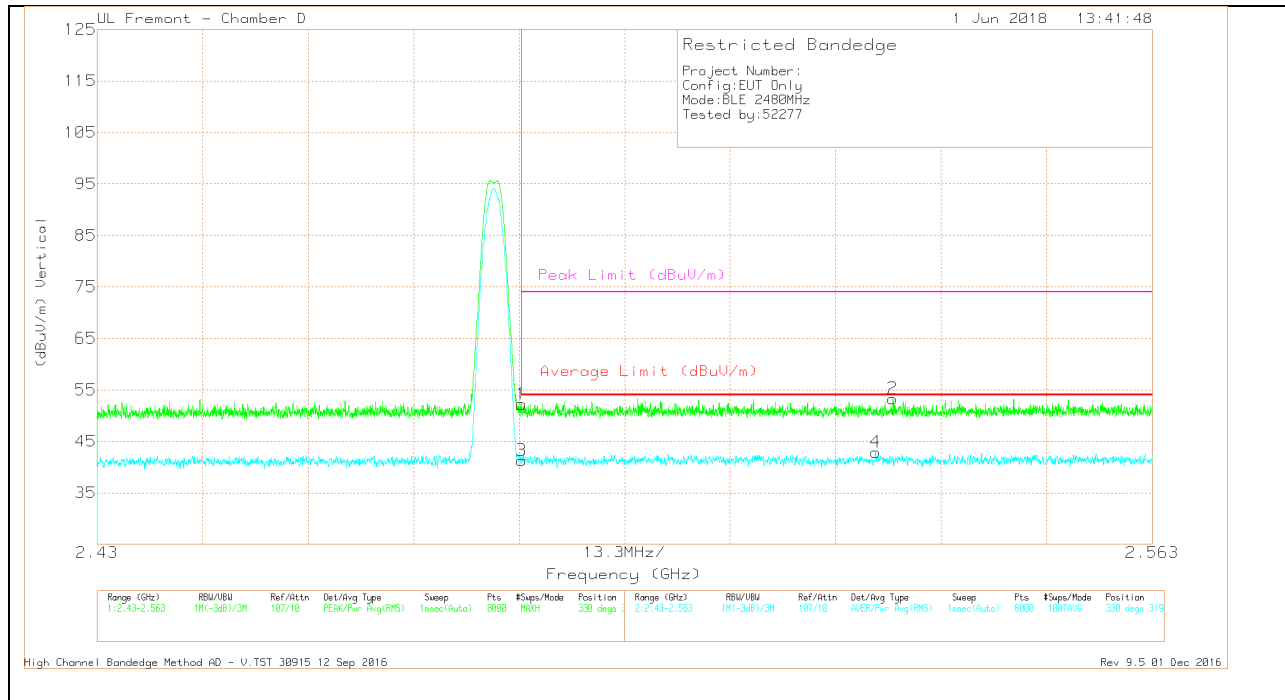
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fltr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.23	Pk	32.4	-20.4	52.23	-	-	74	-21.77	330	319	V
3	* 2.484	29.3	RMS	32.4	-20.4	41.3	54	-12.7	-	-	330	319	V
4	2.528	30.92	RMS	32.4	-20.4	42.92	54	-11.08	-	-	330	319	V
2	2.53	41.2	Pk	32.4	-20.3	53.3	-	-	74	-20.7	330	319	V

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

Pk - Peak detector

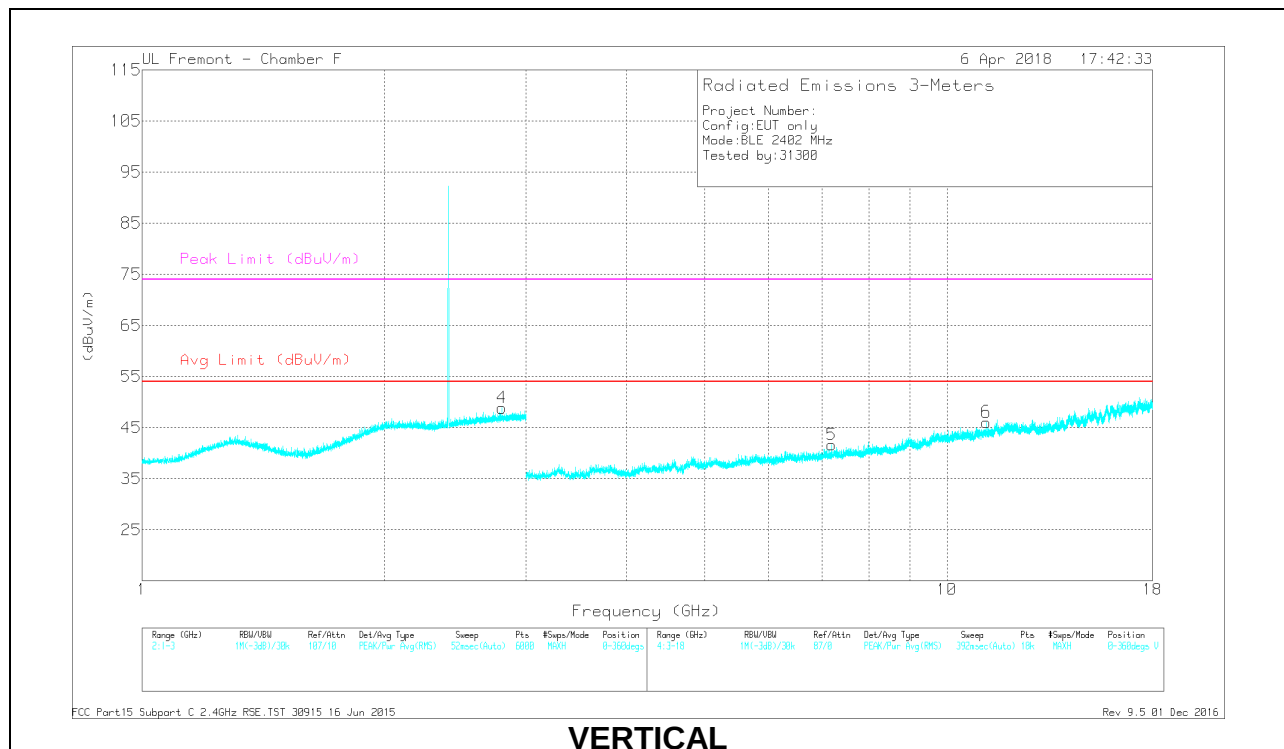
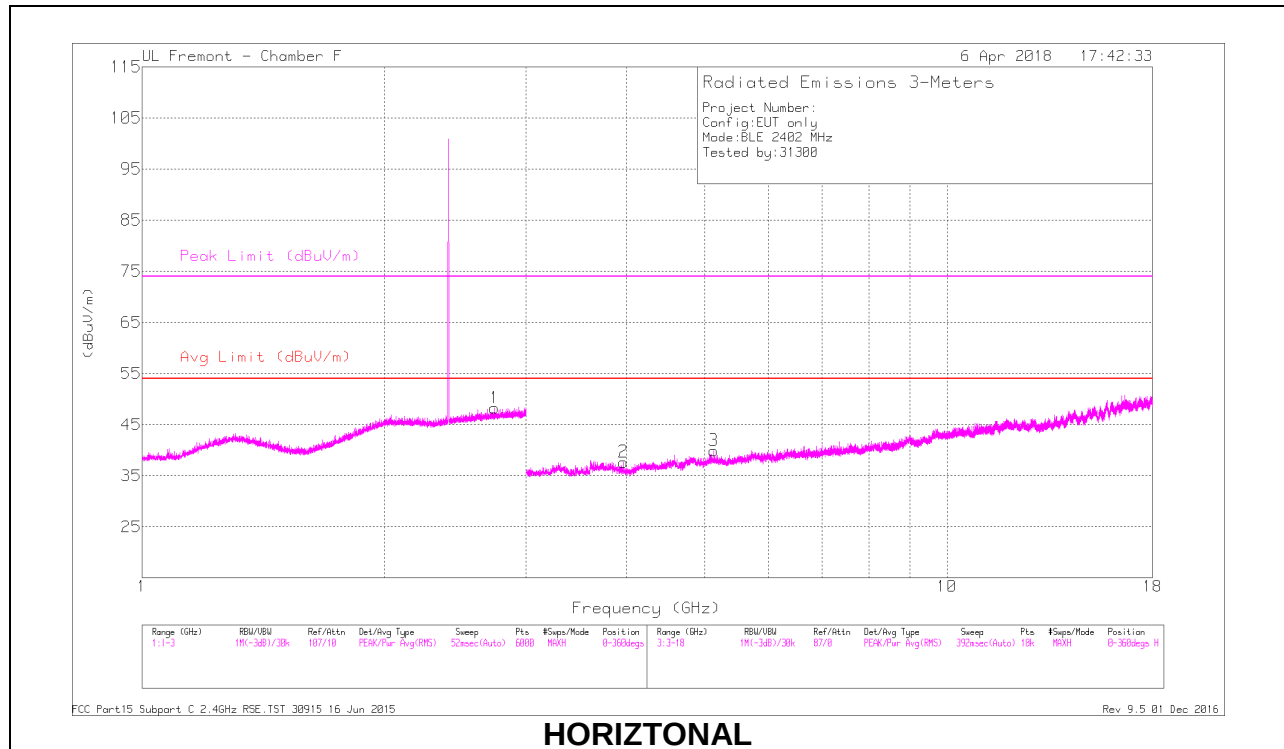
RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

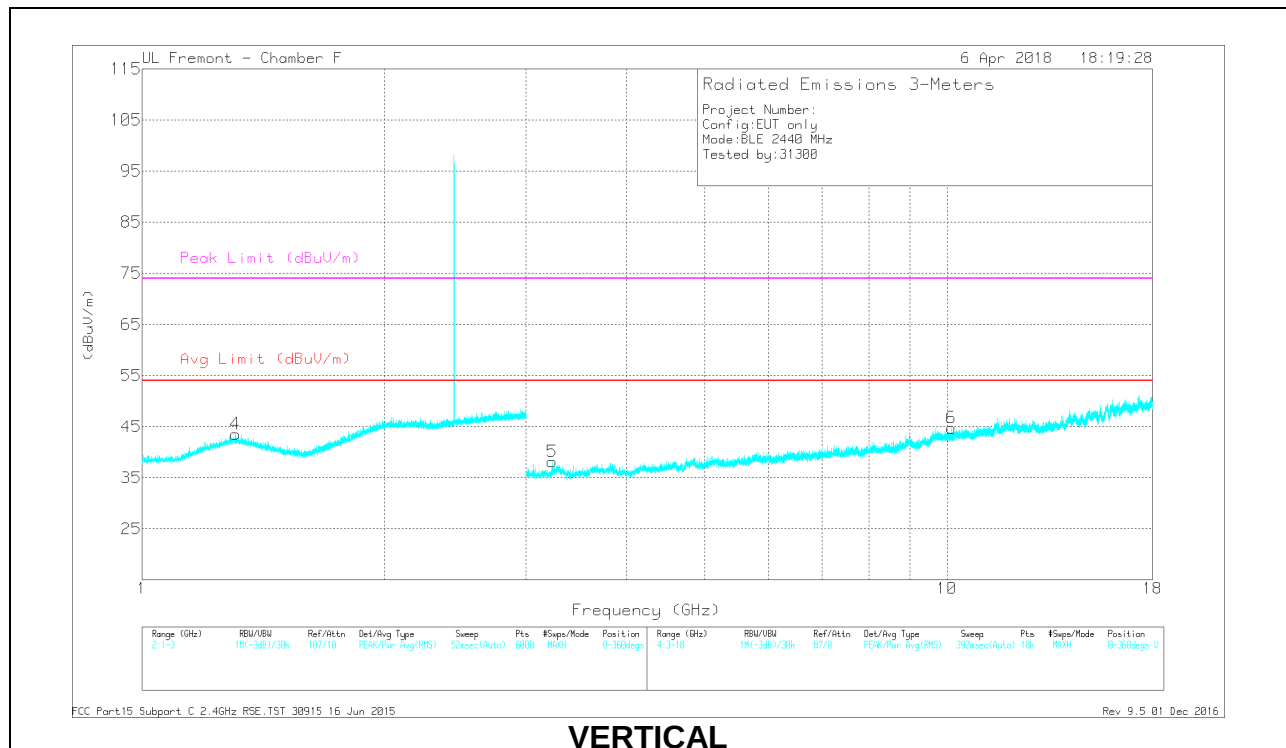
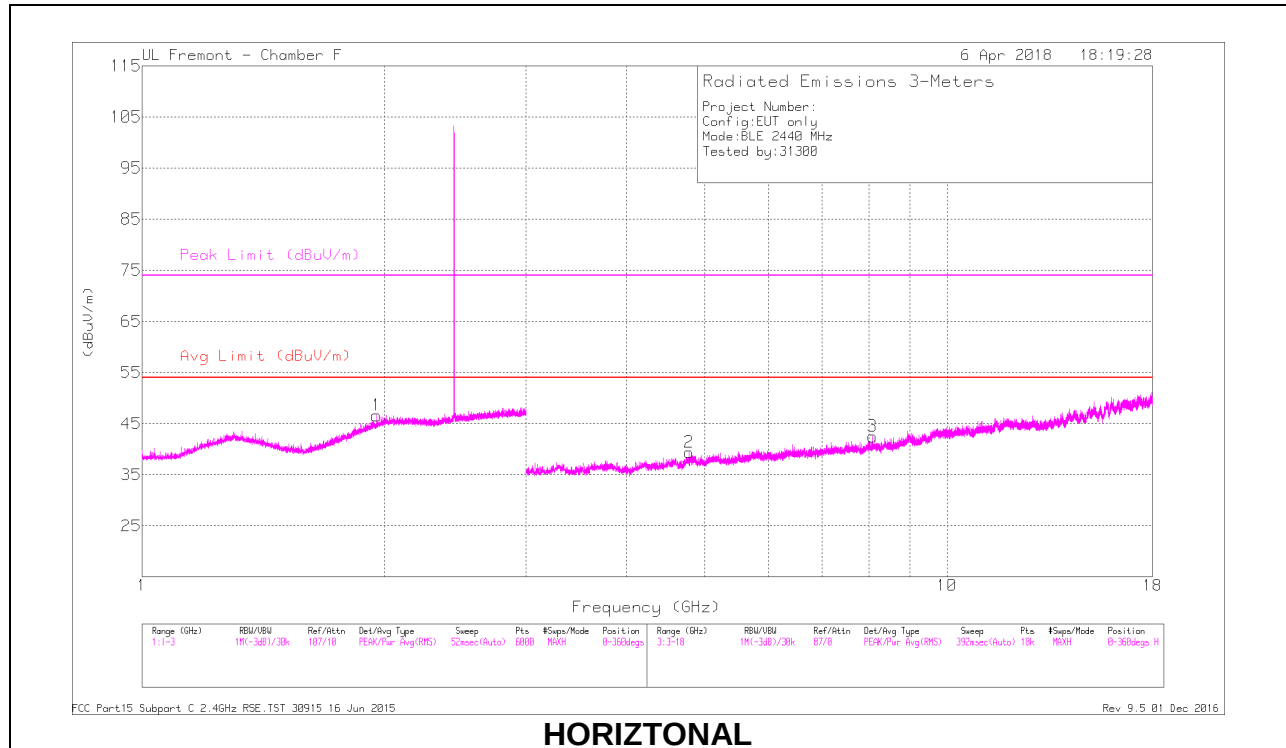
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.741	41.86	PK2	32.6	-20.4	54.06	-	-	74	-19.94	220	369	H
	* 2.739	30.09	MAv1	32.6	-20.3	42.39	54	-11.61	-	-	220	369	H
4	* 2.798	42.1	PK2	32.7	-20.2	54.6	-	-	74	-19.4	157	282	V
	* 2.799	30.03	MAv1	32.7	-20.2	42.53	54	-11.47	-	-	157	282	V
2	* 3.962	39.14	PK2	33.3	-28.7	43.74	-	-	74	-30.26	78	350	H
	* 3.962	27.62	MAv1	33.3	-28.7	32.22	54	-21.78	-	-	78	350	H
3	* 5.134	38.02	PK2	34.4	-26.4	46.02	-	-	74	-27.98	359	116	H
	* 5.136	26.26	MAv1	34.4	-26.4	34.26	54	-19.74	-	-	359	116	H
5	7.19	37.38	PK2	35.9	-25.6	47.68	-	-	-	-	315	135	V
6	* 11.194	35.06	PK2	38.1	-21.5	51.66	-	-	74	-22.34	157	206	V
	* 11.191	23.13	MAv1	38.1	-21.4	39.83	54	-14.17	-	-	157	206	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

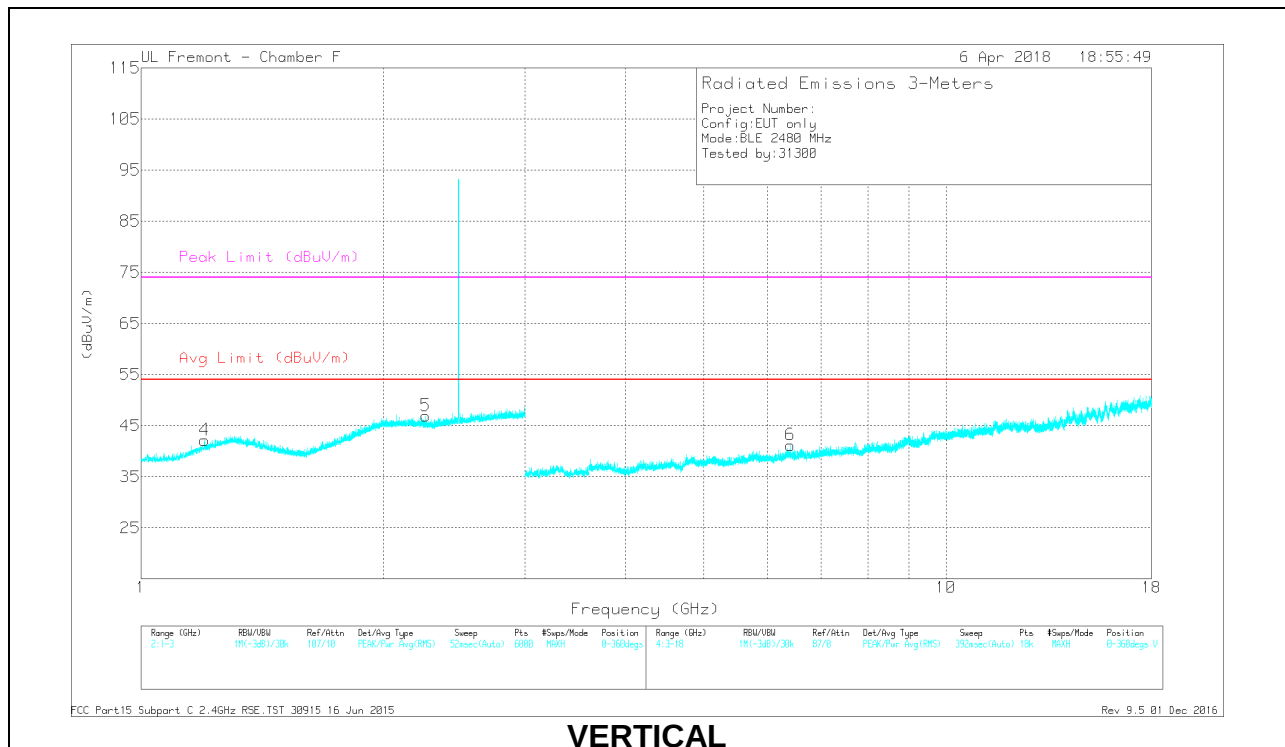
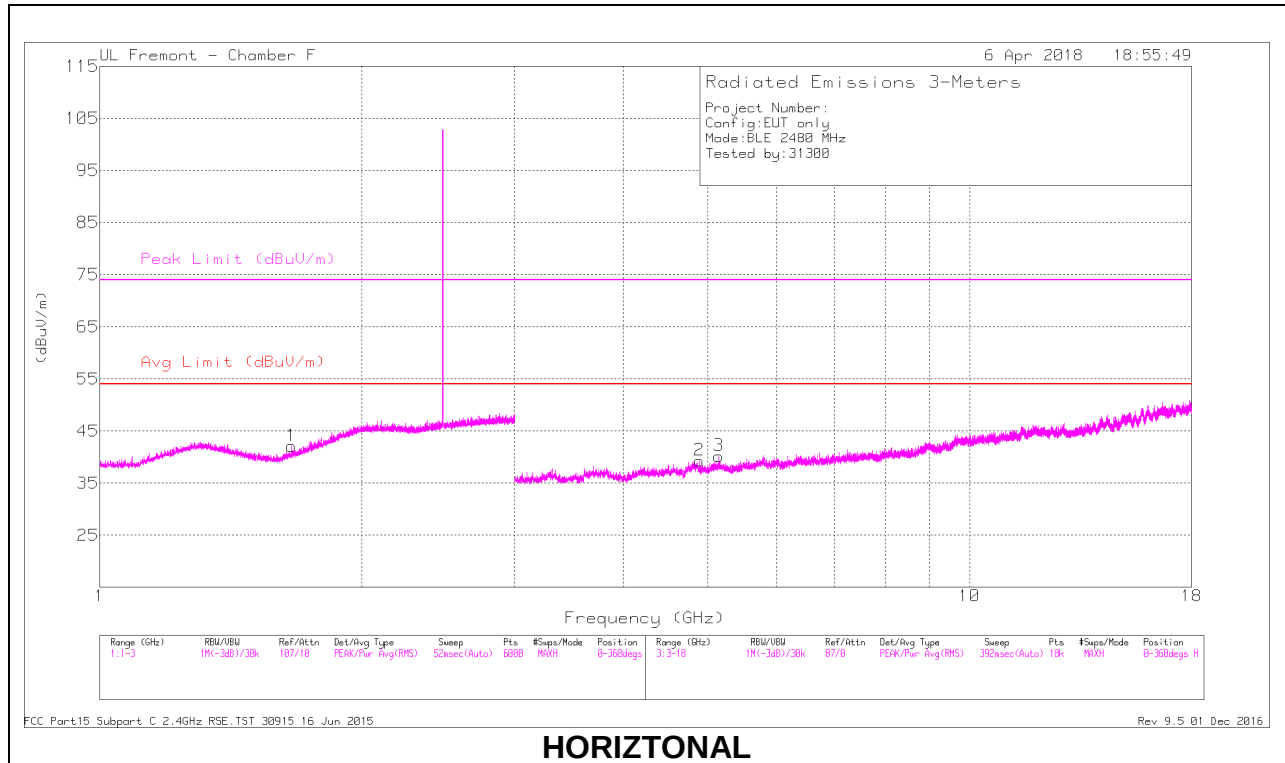
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.957	42.22	PK2	31.8	-21.1	52.92	-	-	-	-	306	400	H
2	* 1.308	41.99	PK2	30	-21.9	50.09	-	-	74	-23.91	323	242	V
	* 1.305	29.9	MAV1	30.1	-21.9	38.1	54	-15.9	-	-	323	242	V
3	* 4.785	38.5	PK2	34.1	-27.2	45.4	-	-	74	-28.6	312	247	H
	* 4.785	27.08	MAV1	34.1	-27.2	33.98	54	-20.2	-	-	312	247	H
4	* 8.081	37.2	PK2	36	-24.1	49.1	-	-	74	-24.9	334	141	H
	* 8.083	24.63	MAV1	36	-24.1	36.53	54	-17.47	-	-	334	141	H
5	3.234	39.89	PK2	33.2	-28.8	44.29	-	-	-	-	24	261	V
6	10.125	35.54	PK2	37.4	-21.5	51.44	-	-	-	-	340	151	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 T119 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.662	41.95	PK2	27.9	-21.5	48.35	-	-	74	-25.65	135	146	H
	* 1.663	29.95	MAv1	28	-21.5	36.45	54	-17.55	-	-	135	146	H
4	* 1.2	42.4	PK2	28.9	-22.2	49.1	-	-	74	-24.9	187	113	V
	* 1.2	30.08	MAv1	28.9	-22.2	36.78	54	-17.22	-	-	187	113	V
5	* 2.259	42.09	PK2	31.8	-20.8	53.09	-	-	74	-20.91	183	277	V
	* 2.26	29.8	MAv1	31.8	-20.8	40.8	54	-13.2	-	-	183	277	V
5	* 4.888	38.62	PK2	34.2	-27.5	45.32	-	-	74	-28.68	249	180	H
	* 4.889	26.3	MAv1	34.2	-27.5	33	54	-21	-	-	249	180	H
3	5.152	38.26	PK2	34.5	-26.4	46.36	-	-	-	-	105	101	H
6	6.408	37.74	PK2	35.7	-26.4	47.04	-	-	-	-	203	363	V

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

PK2 - KDB558074 Method: Maximum Peak

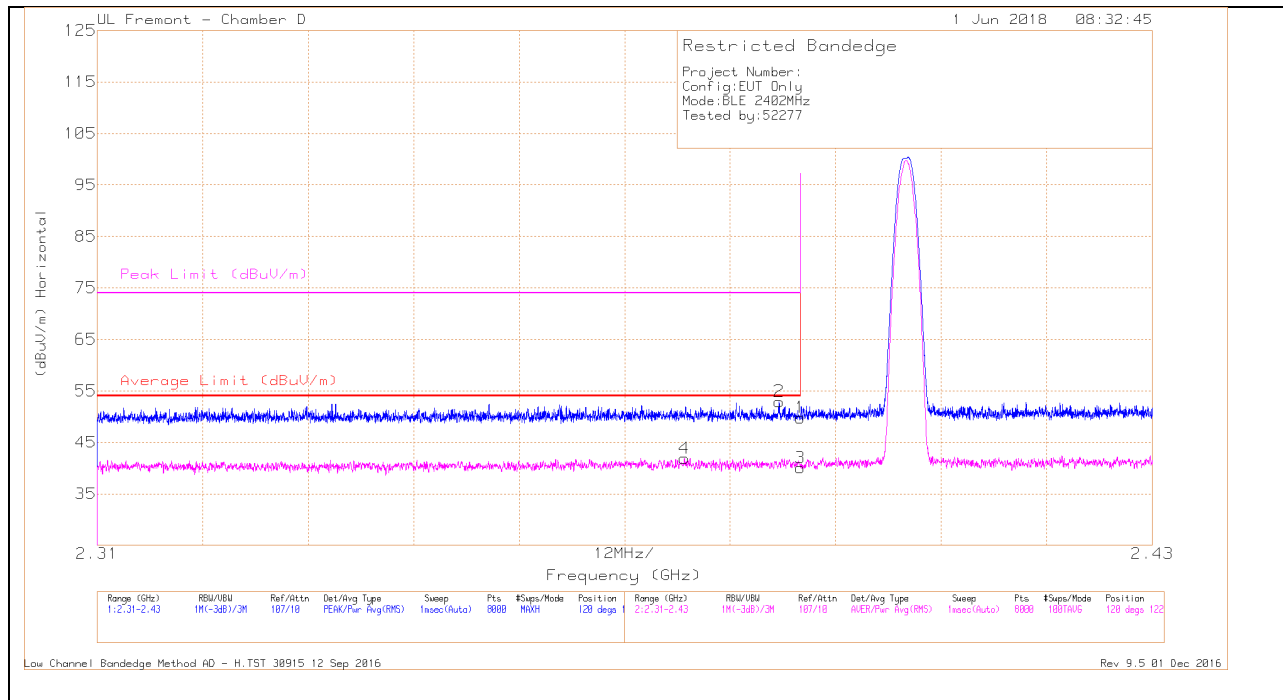
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.3. LOW POWER BLE (1Mbps)

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	38.4	Pk	31.9	-20.5	49.8	-	-	74	-24.2	120	122	H
2	* 2.388	41.53	Pk	31.9	-20.5	52.93	-	-	74	-21.07	120	122	H
3	* 2.39	28.66	RMS	31.9	-20.5	40.06	54	-13.94	-	-	120	122	H
4	* 2.377	30.5	RMS	31.8	-20.4	41.9	54	-12.1	-	-	120	122	H

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

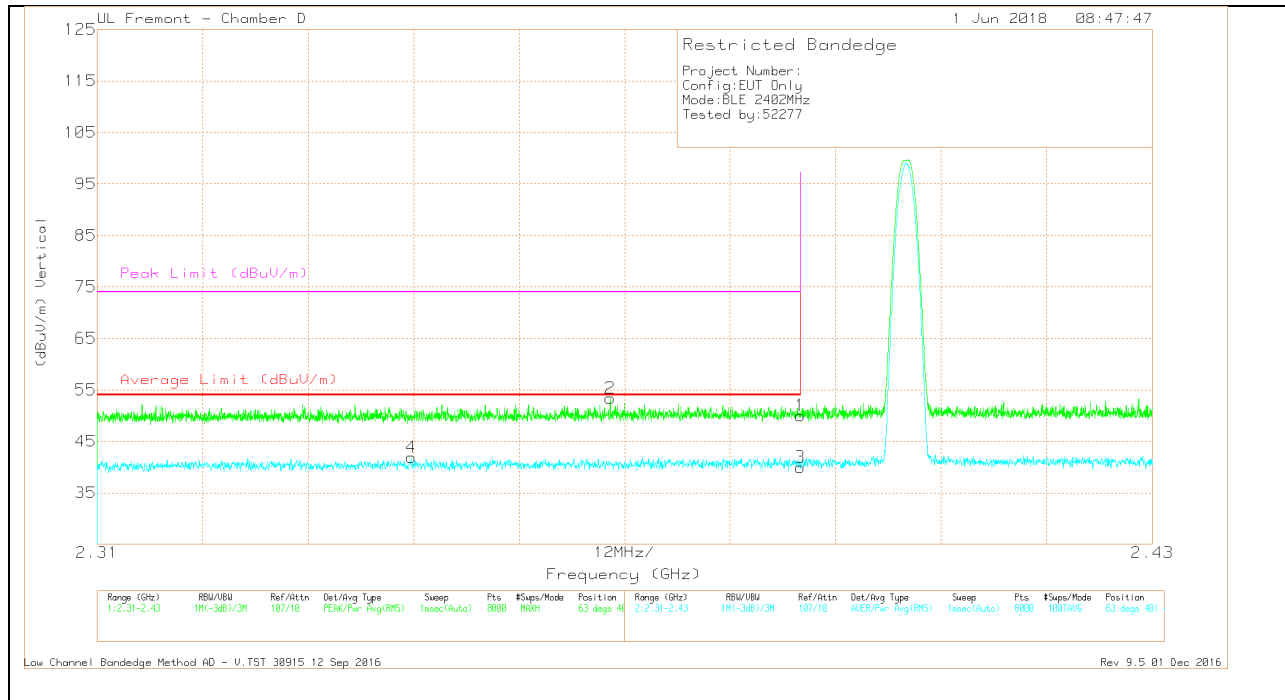
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtz/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	38.6	Pk	31.9	-20.5	50	-	-	74	-24	63	401	V
2	* 2.368	42.27	Pk	31.7	-20.6	53.37	-	-	74	-20.63	63	401	V
3	* 2.39	28.56	RMS	31.9	-20.5	39.96	54	-14.04	-	-	63	401	V
4	* 2.346	30.87	RMS	31.6	-20.6	41.87	54	-12.13	-	-	63	401	V

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

Pk - Peak detector

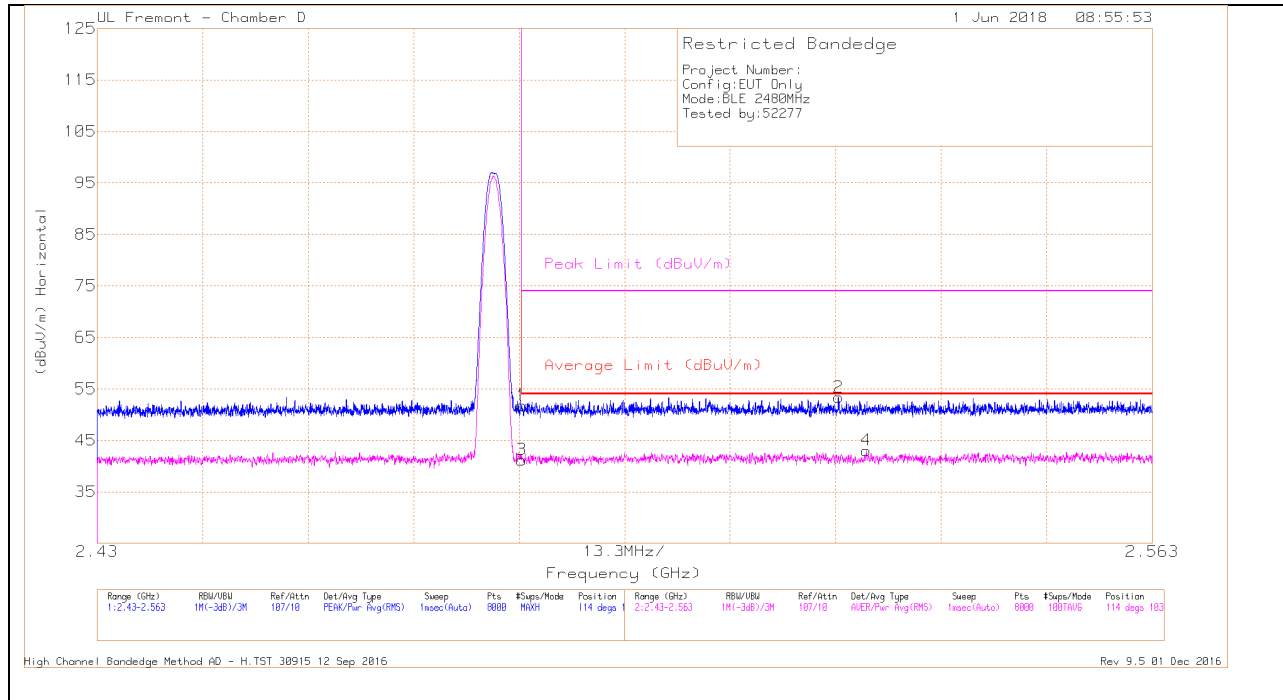
RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.81	Pk	32.4	-20.4	51.81	-	-	74	-22.19	114	103	H
3	* 2.484	29.22	RMS	32.4	-20.4	41.22	54	-12.78	-	-	114	103	H
2	2.523	41.39	Pk	32.4	-20.4	53.39	-	-	74	-20.61	114	103	H
4	2.527	31.06	RMS	32.4	-20.4	43.06	54	-10.94	-	-	114	103	H

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

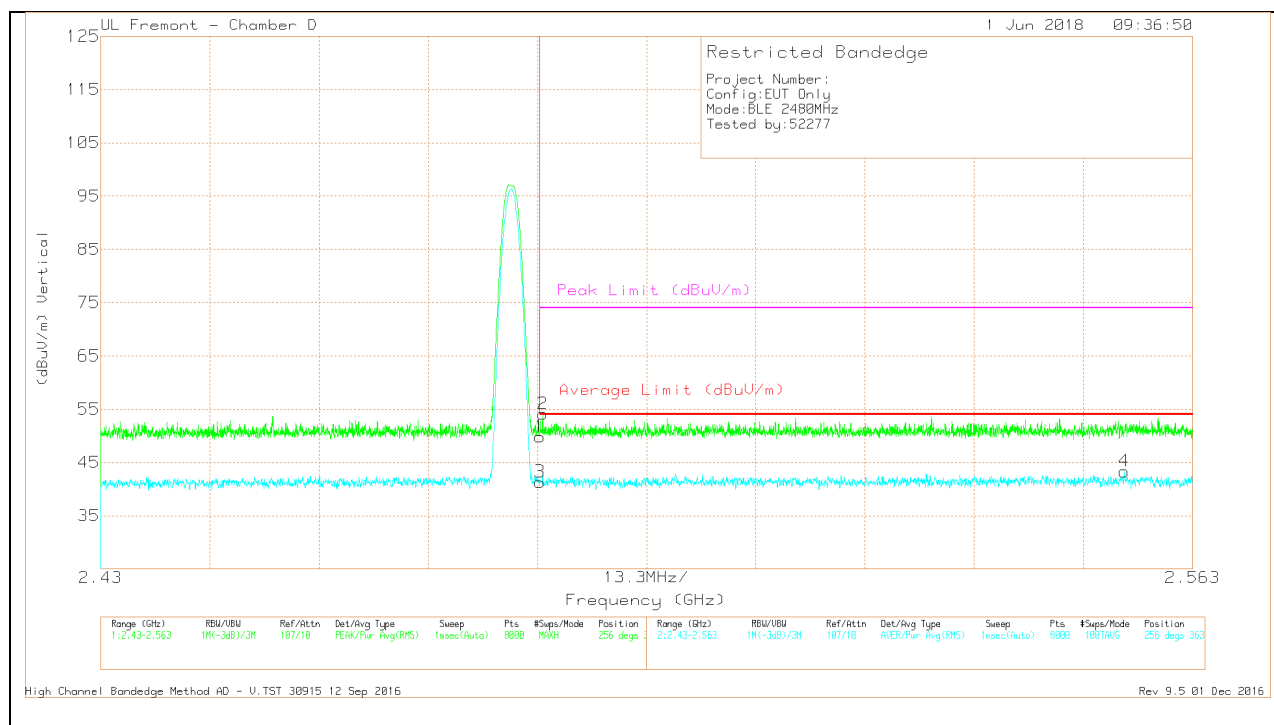
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.484	37.85	Pk	32.4	-20.4	49.85	-	-	74	-24.15	256	363	V
2	* 2.484	42.18	Pk	32.4	-20.5	54.08	-	-	74	-19.92	256	363	V
3	* 2.484	29.31	RMS	32.4	-20.4	41.31	54	-12.69	-	-	256	363	V
4	2.555	31.12	RMS	32.5	-20.3	43.32	54	-10.68	-	-	256	363	V

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

Pk - Peak detector

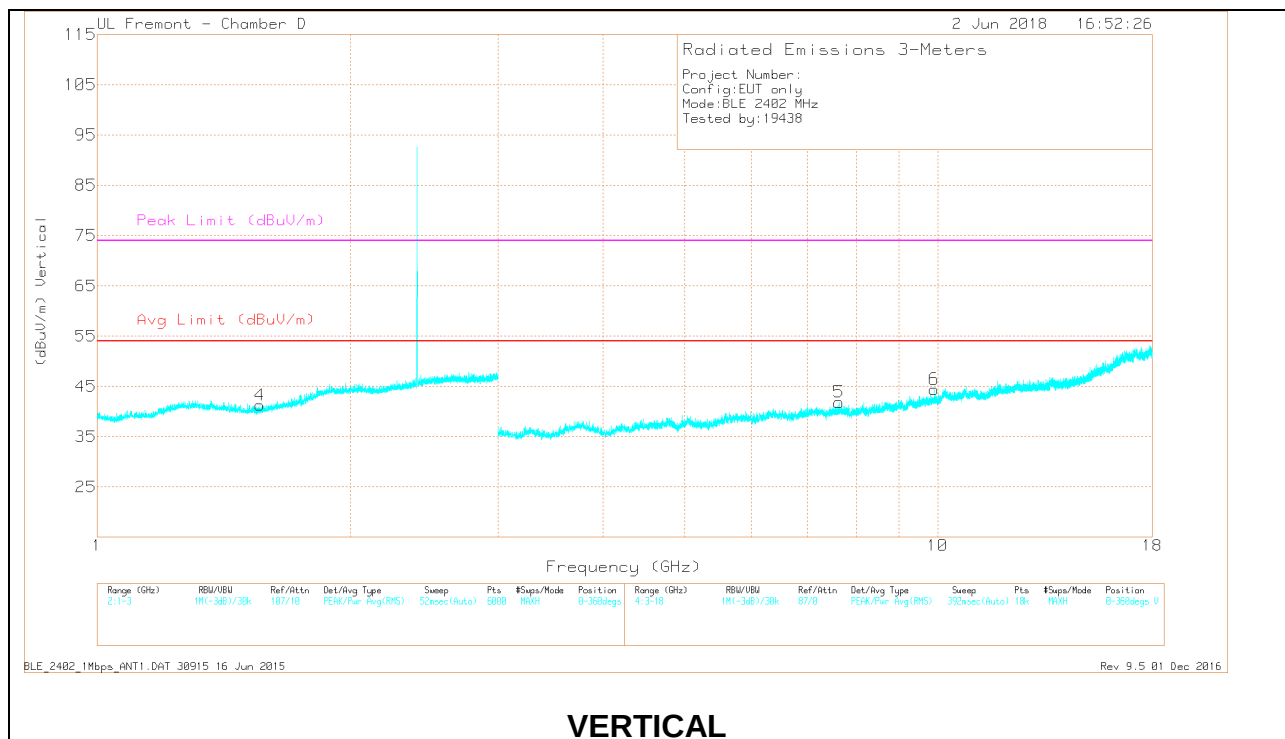
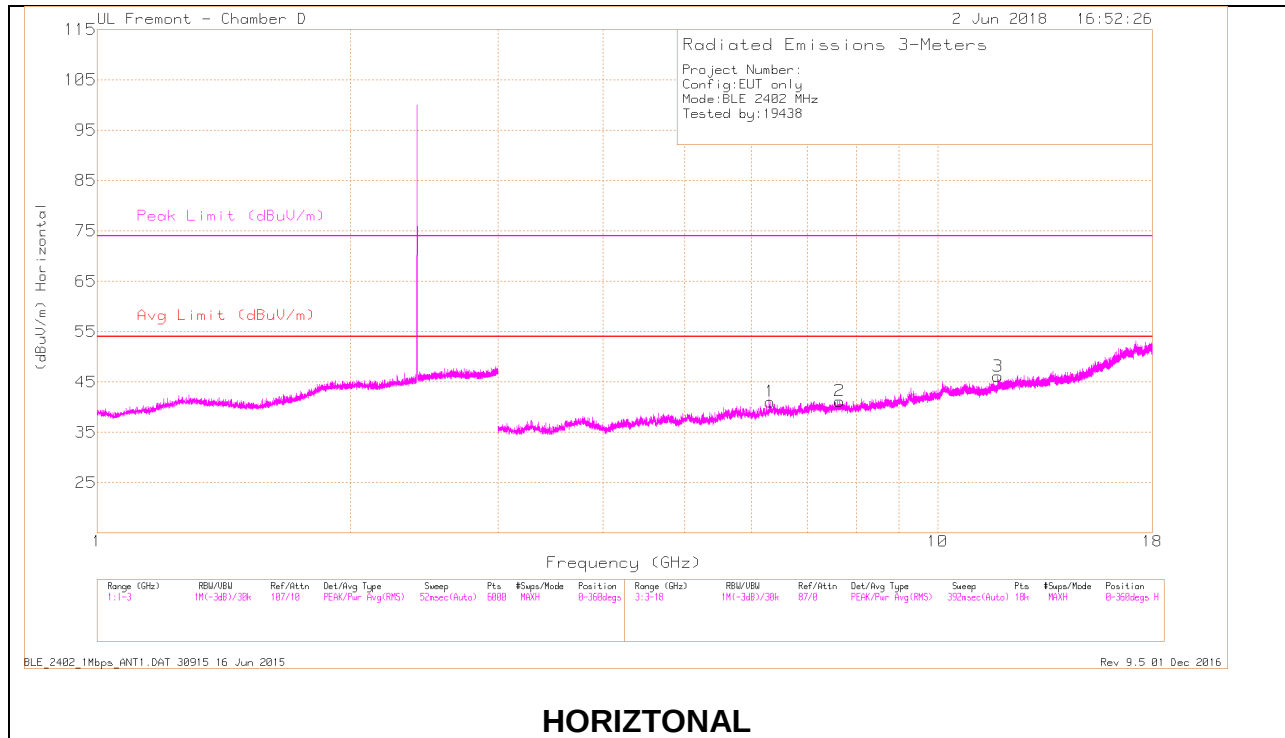
RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.55	42.11	PK2	28	-21.6	48.51	-	-	74	-25.49	99	155	V
	* 1.559	29.66	MAv1	28	-21.6	36.06	54	-17.94	-	-	99	155	V
2	* 7.642	35.38	PK2	36.2	-24.2	47.38	-	-	74	-26.62	98	125	H
	* 7.643	23.81	MAv1	36.2	-24.2	35.81	54	-18.19	-	-	98	125	H
3	* 11.794	33.12	PK2	38.6	-20.2	51.52	-	-	74	-22.48	167	275	H
	* 11.8	22.56	MAv1	38.6	-20	41.16	54	-12.84	-	-	167	275	H
5	* 7.621	35.52	PK2	36.2	-24.2	47.52	-	-	74	-26.48	253	343	V
	* 7.614	24.52	MAv1	36.3	-24.3	36.52	54	-17.48	-	-	253	343	V
1	6.315	36.31	PK2	35.9	-25.6	46.61	-	-	-	-	6	162	H
6	9.909	32.95	PK2	37.1	-20	50.05	-	-	-	-	201	269	V

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

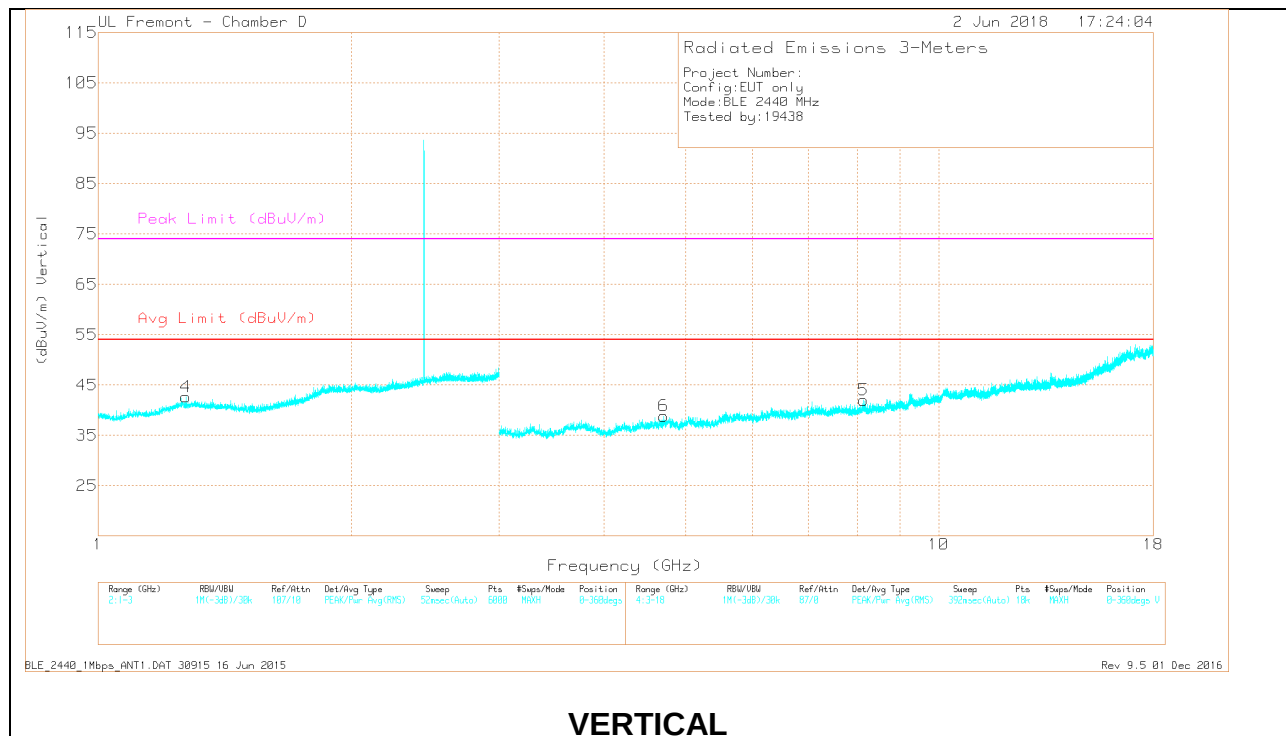
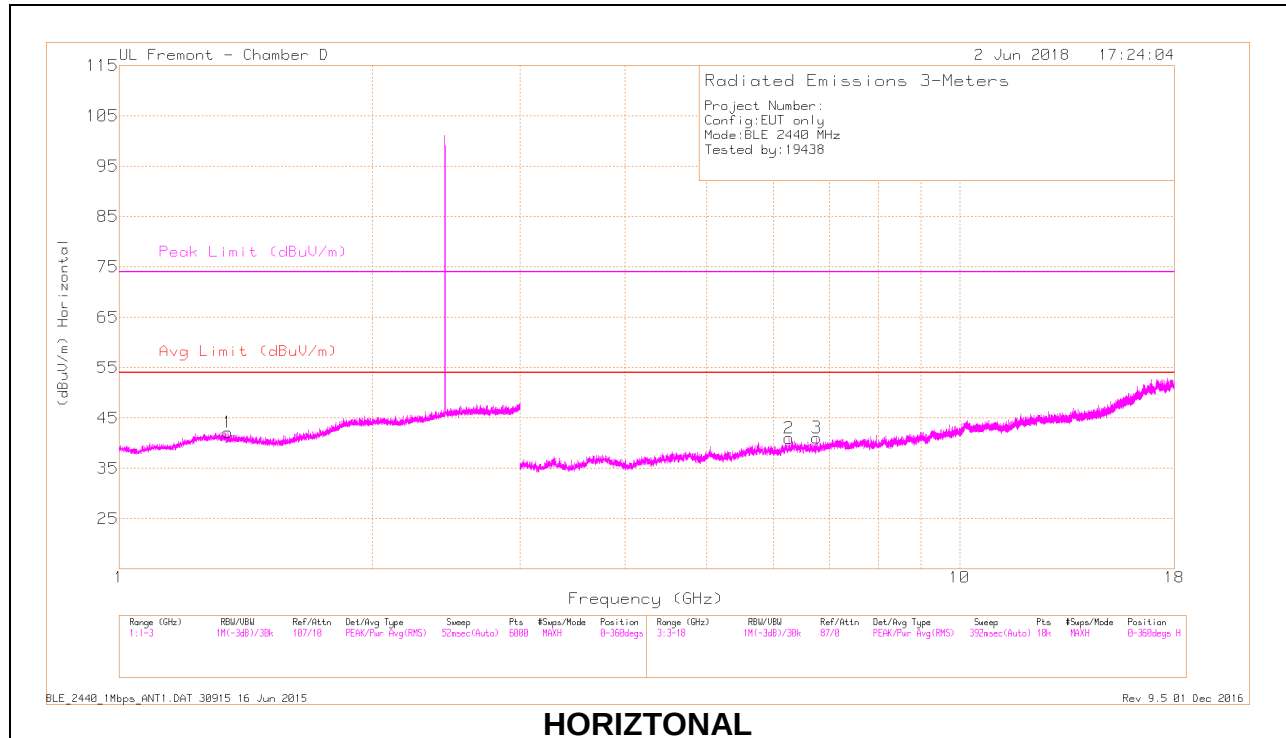
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

BLE_2402_1Mbps_ANT1.DAT 30915 16 Jun 2015

Rev 9.5 01 Dec 2016

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.351	41.92	PK2	28.8	-21.9	48.82	-	-	74	-25.18	174	279	H
	* 1.326	30.15	MAv1	29.1	-22	37.25	54	-16.75	-	-	174	279	H
4	* 1.278	42.29	PK2	29.2	-22	49.49	-	-	74	-24.51	286	119	V
	* 1.259	30.38	MAv1	29.1	-22.1	37.38	54	-16.62	-	-	286	119	V
5	* 8.137	34.58	PK2	35.8	-22.3	48.08	-	-	74	-25.92	245	175	V
	* 8.14	23.15	MAv1	35.8	-22.5	36.45	54	-17.55	-	-	245	175	V
6	* 4.711	37.92	PK2	34.6	-27.1	45.42	-	-	74	-28.58	303	137	V
	* 4.706	26.43	MAv1	34.6	-27.1	33.93	54	-20.07	-	-	303	137	V
2	6.248	36.62	PK2	35.8	-26	46.42	-	-	-	-	59	267	H
3	6.752	36.48	PK2	36	-25.5	46.98	-	-	-	-	211	154	H

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

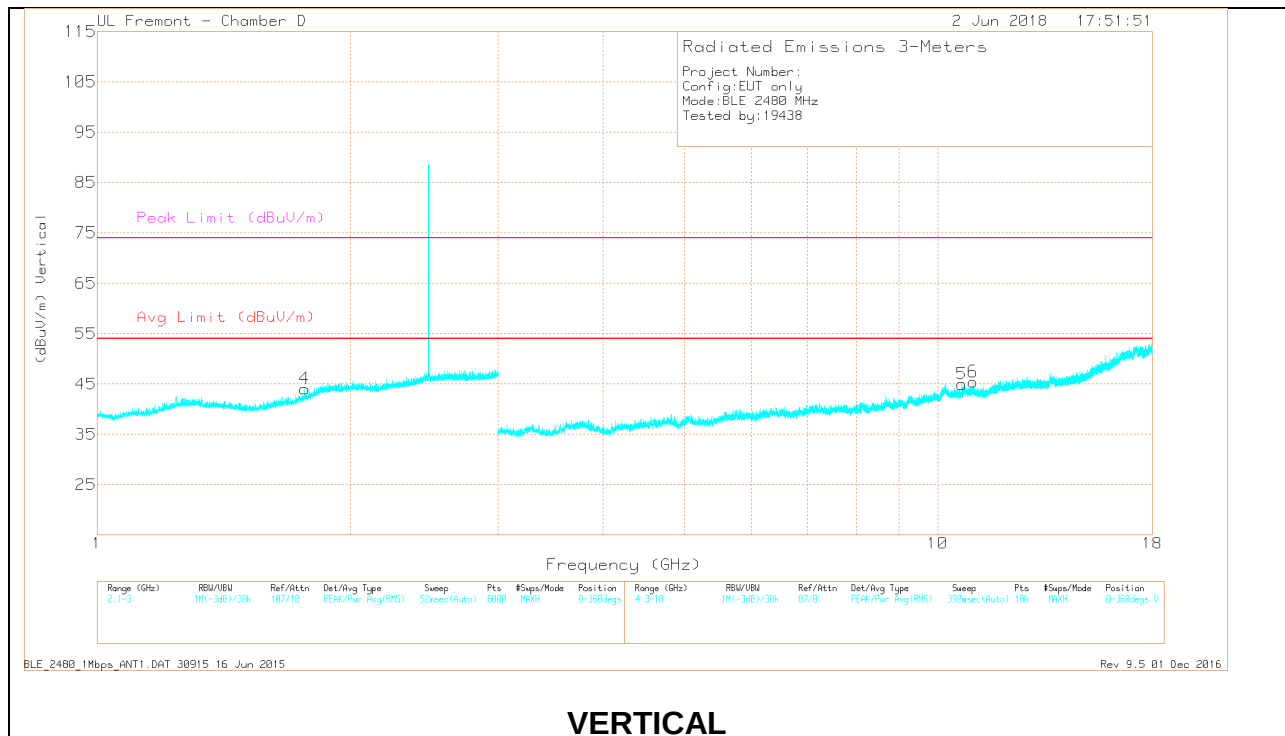
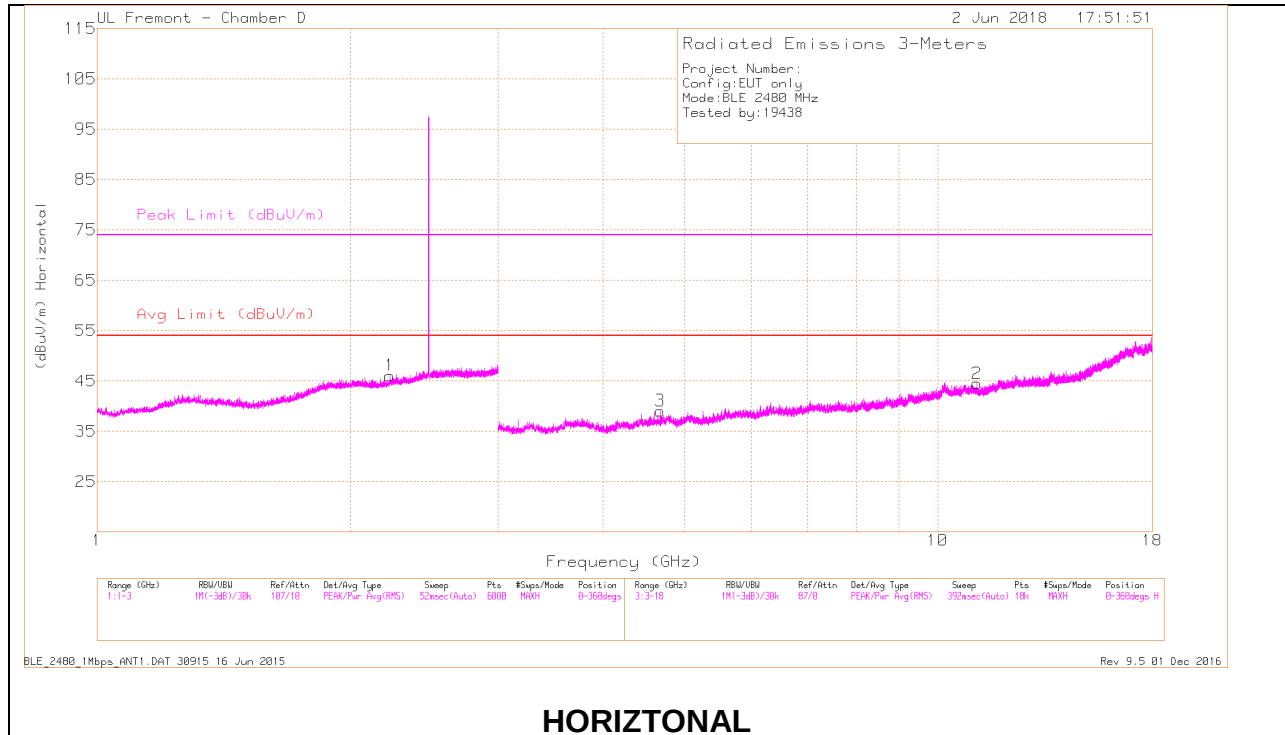
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

BLE_2440_1Mbps_ANT1.DAT 30915 16 Jun 2015

Rev 9.5 01 Dec 2016

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.228	41.77	PK2	31.4	-20.8	52.37	-	-	74	-21.63	218	393	H
	* 2.22	29.93	MAv1	31.3	-20.7	40.53	54	-13.47	-	-	218	393	H
2	* 11.143	33.41	PK2	37.8	-20.3	50.91	-	-	74	-23.09	269	108	H
	* 11.118	21.91	MAv1	37.8	-20.2	39.51	54	-14.49	-	-	269	108	H
3	* 4.665	37.94	PK2	34.6	-27.6	44.94	-	-	74	-29.06	349	289	H
	* 4.661	26.31	MAv1	34.6	-27.7	33.21	54	-20.79	-	-	349	289	H
5	* 10.67	33.75	PK2	37.7	-20.6	50.85	-	-	74	-23.15	128	169	V
	* 10.664	22.57	MAv1	37.7	-20.6	39.67	54	-14.33	-	-	128	169	V
6	* 11.03	32.94	PK2	37.8	-20.1	50.64	-	-	74	-23.36	243	150	V
	* 11.008	22.4	MAv1	37.8	-20	40.2	54	-13.8	-	-	243	150	V
4	1.767	41.97	PK2	29.8	-21.3	50.47	-	-	-	-	344	356	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

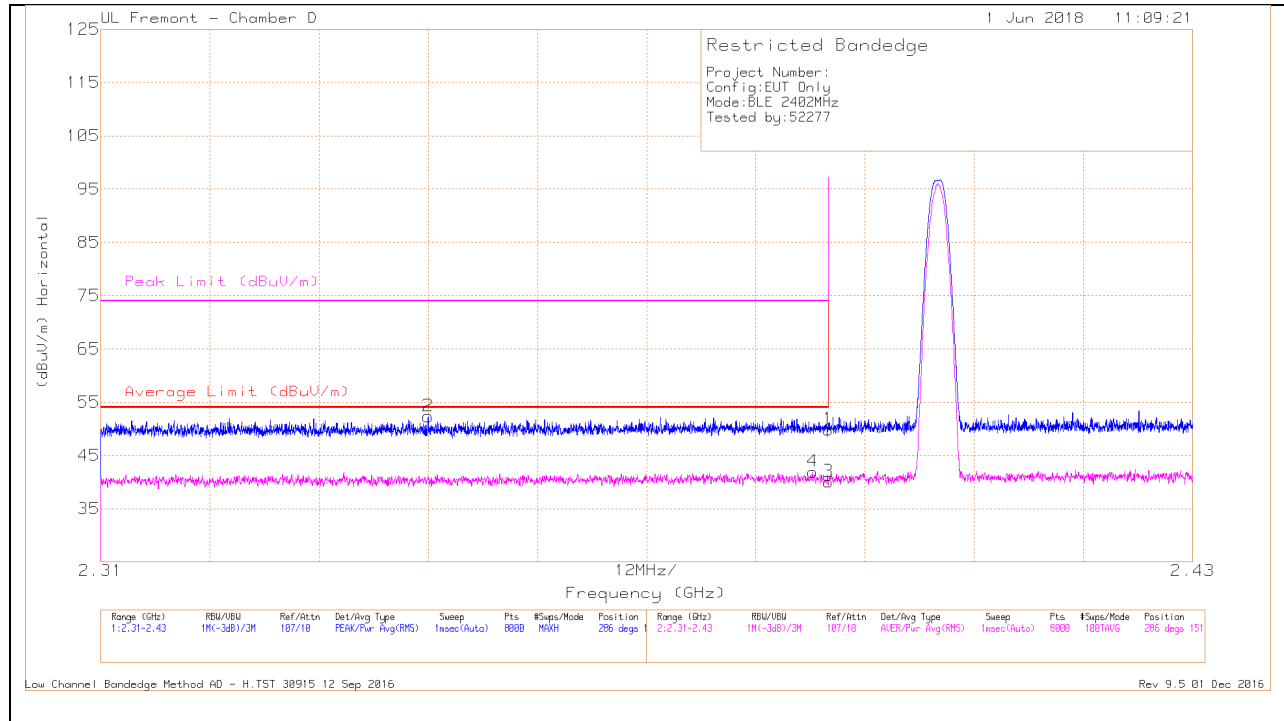
BLE_2480_1Mbps_ANT1.DAT 30915 16 Jun 2015

Rev 9.5 01 Dec 2016

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtz/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.346	41.35	Pk	31.6	-20.6	52.35	-	-	74	-21.65	286	151	H
4	* 2.388	30.56	RMS	31.9	-20.5	41.96	54	-12.04	-	-	286	151	H
1	* 2.39	38.48	Pk	31.9	-20.5	49.88	-	-	74	-24.12	286	151	H
3	* 2.39	28.69	RMS	31.9	-20.5	40.09	54	-13.91	-	-	286	151	H

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

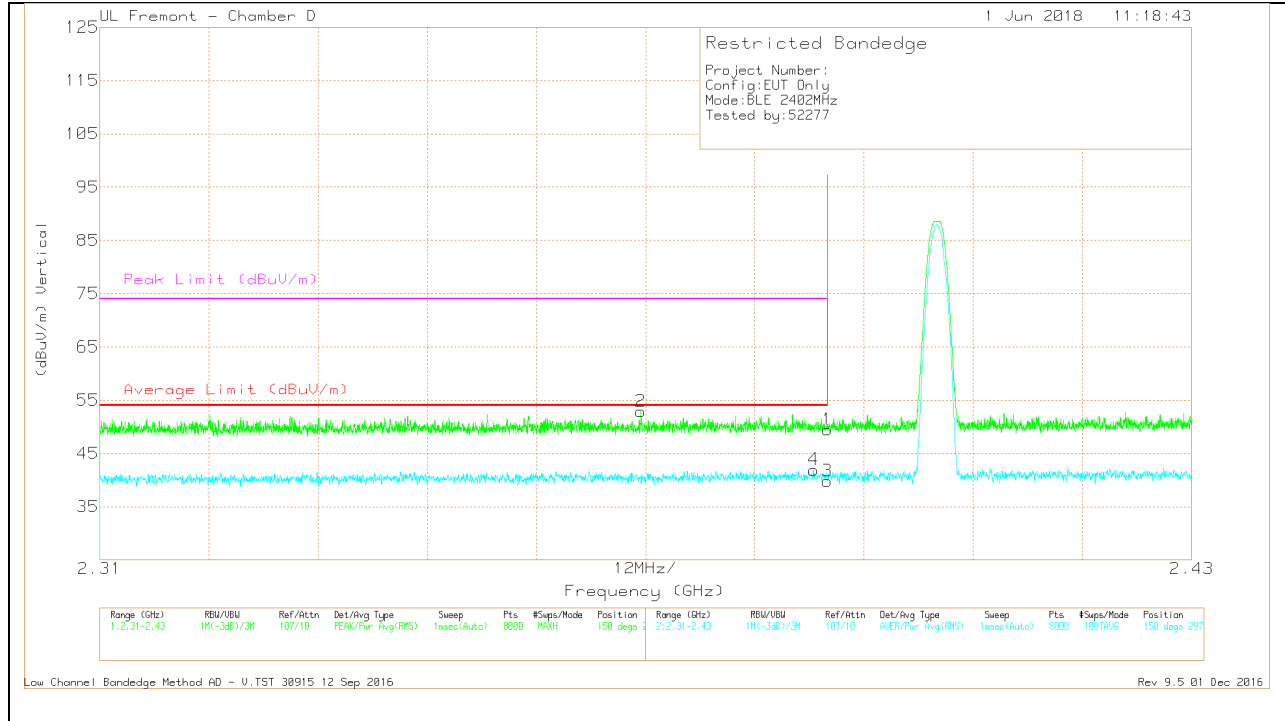
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T136 (dB/m)	Amp/Cb/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.369	41.69	Pk	31.8	-20.6	52.89	-	-	74	-21.11	150	297	V
4	* 2.388	30.51	RMS	31.9	-20.5	41.91	54	-12.09	-	-	150	297	V
1	* 2.39	38.06	Pk	31.9	-20.5	49.46	-	-	74	-24.54	150	297	V
3	* 2.39	28.43	RMS	31.9	-20.5	39.83	54	-14.17	-	-	150	297	V

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

Pk - Peak detector

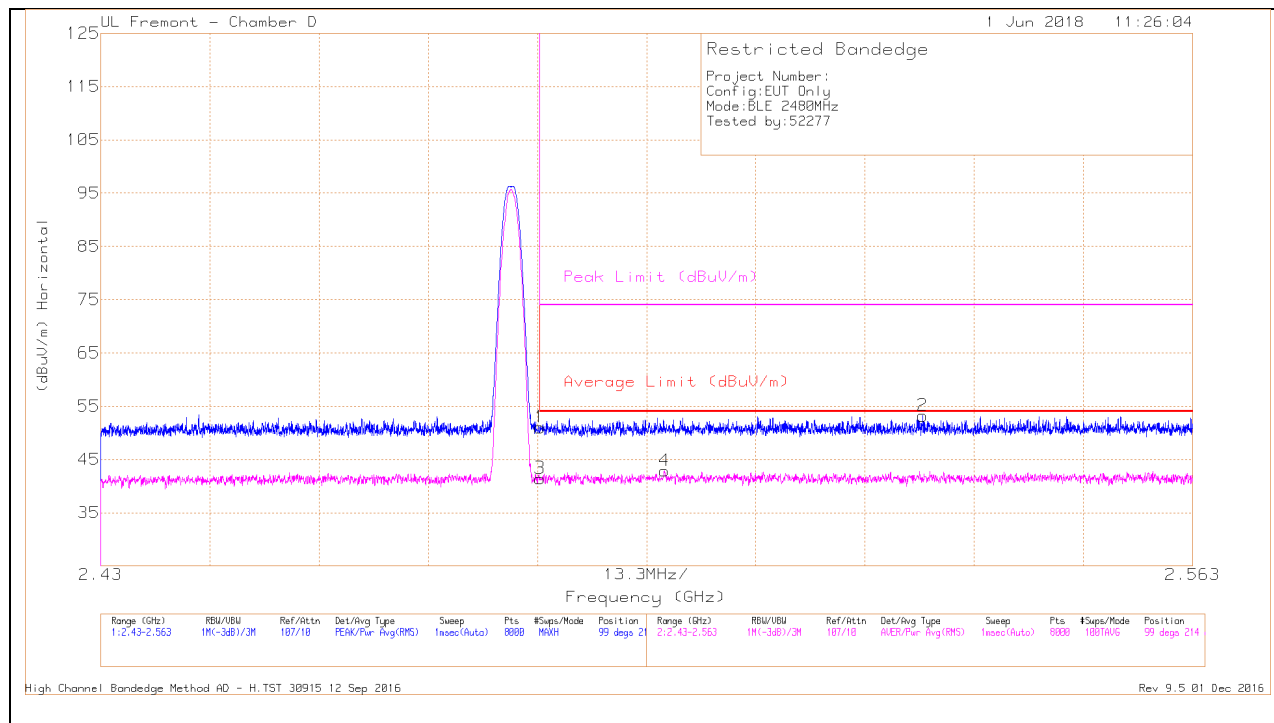
RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH 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	* 2.484	39.01	Pk	32.4	-20.4	51.01	-	-	74	-22.99	99	214	H
3	* 2.484	29.43	RMS	32.4	-20.4	41.43	54	-12.57	-	-	99	214	H
4	* 2.499	30.85	RMS	32.4	-20.4	42.85	54	-11.15	-	-	99	214	H
2	2.53	41.11	Pk	32.4	-20.3	53.21	-	-	74	-20.79	99	214	H

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

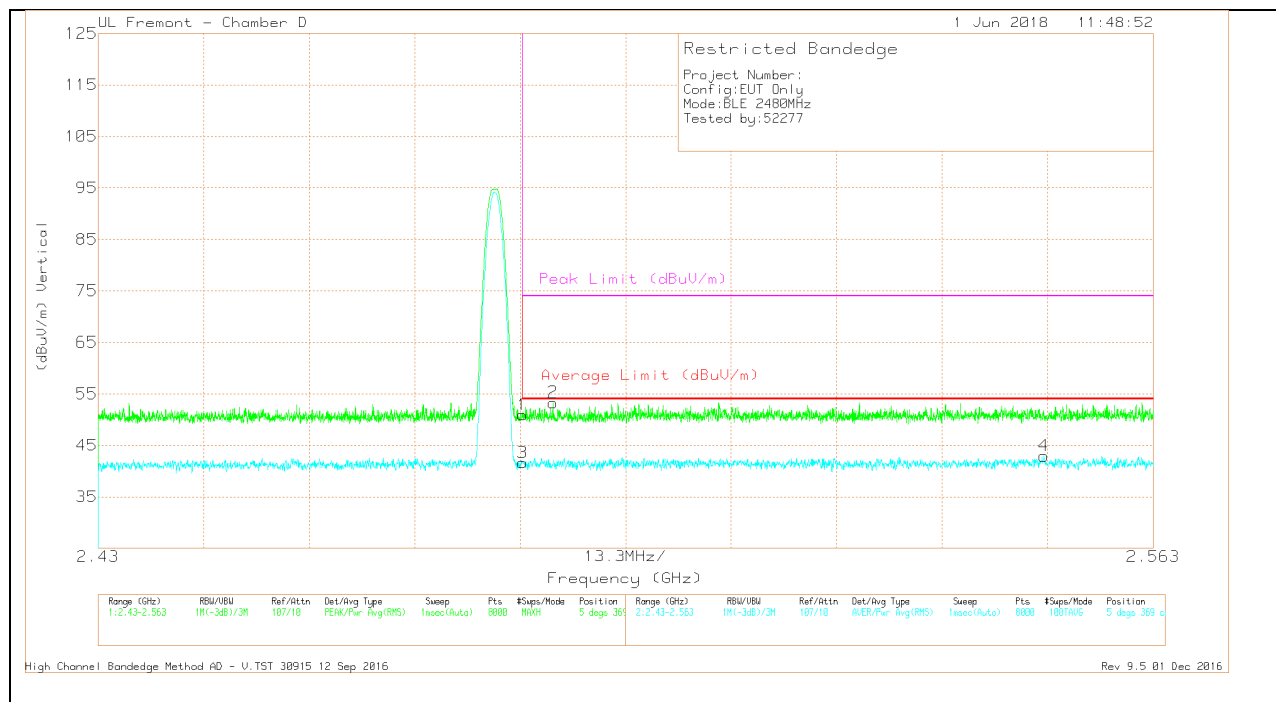
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtz/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.91	Pk	32.4	-20.4	50.91	-	-	74	-23.09	5	369	V
2	* 2.487	41.4	Pk	32.4	-20.5	53.3	-	-	74	-20.7	5	369	V
3	* 2.484	29.64	RMS	32.4	-20.4	41.64	54	-12.36	-	-	5	369	V
4	2.549	30.85	RMS	32.4	-20.3	42.95	54	-11.05	-	-	5	369	V

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

Pk - Peak detector

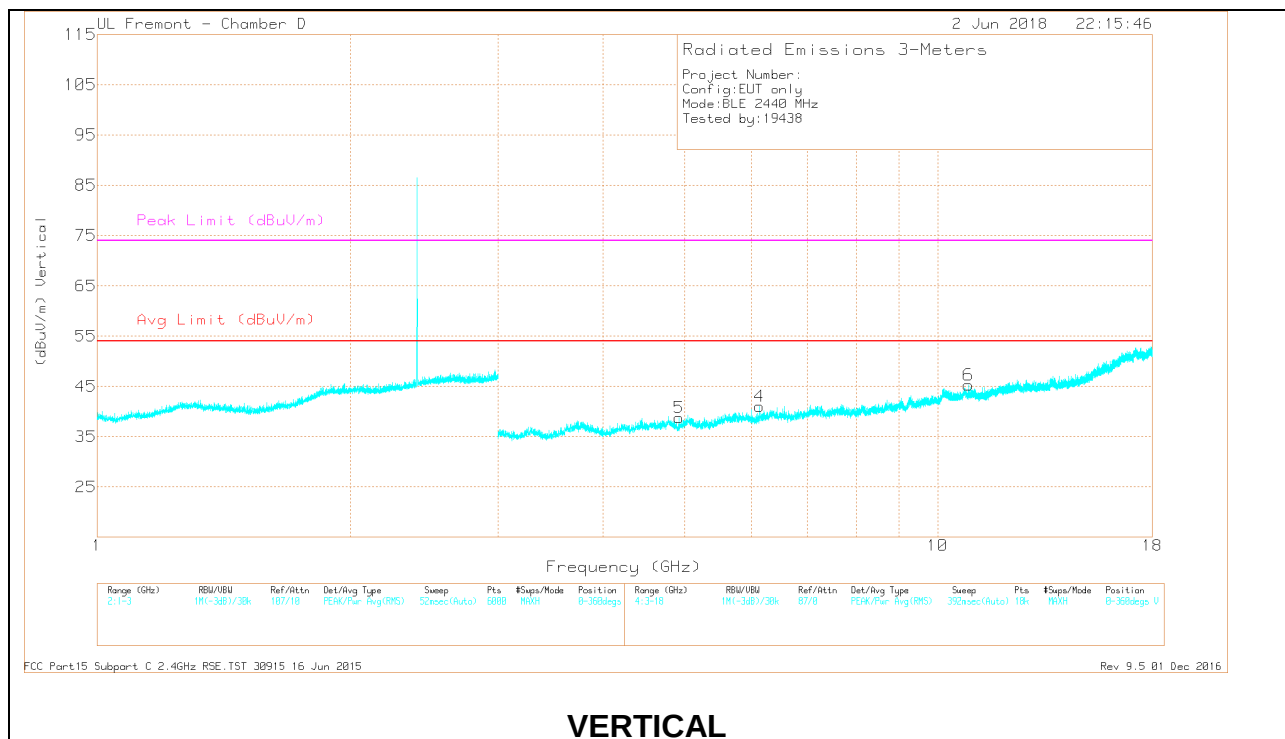
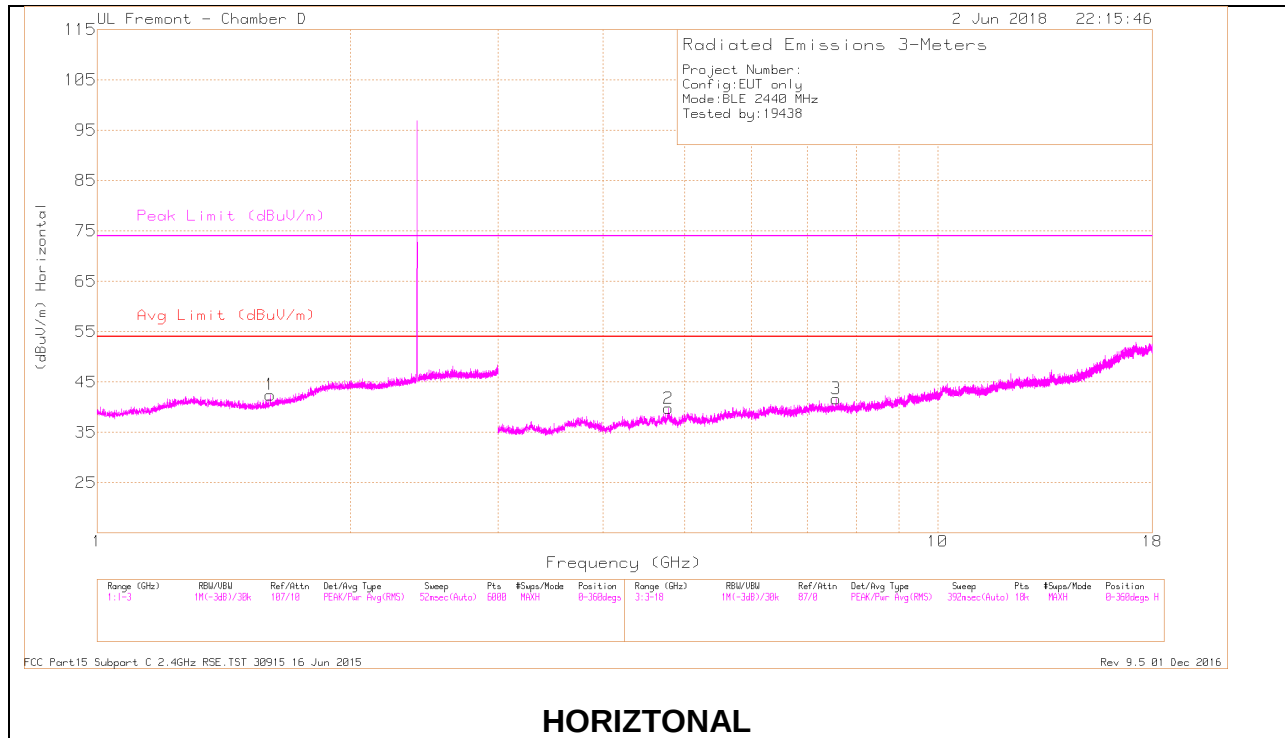
RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.621	41.84	PK2	28.6	-21.5	48.94	-	-	74	-25.06	202	152	H
	* 1.378	30.03	MAv1	28.8	-21.8	37.03	54	-16.97	-	-	202	152	H
2	* 4.773	37.46	PK2	34.5	-26.3	45.66	-	-	74	-28.34	274	242	H
	* 4.769	26.32	MAv1	34.5	-26.3	34.52	54	-19.48	-	-	274	242	H
3	* 7.571	35.44	PK2	36.3	-24.3	47.44	-	-	74	-26.56	204	372	H
	* 7.559	24.55	MAv1	36.3	-24.3	36.55	54	-17.45	-	-	204	372	H
5	* 4.921	37.55	PK2	34.3	-27.7	44.15	-	-	74	-29.85	173	177	V
	* 4.927	26.39	MAv1	34.3	-27.7	32.99	54	-21.01	-	-	173	177	V
6	* 10.883	33.77	PK2	37.7	-20.3	51.17	-	-	74	-22.83	0	242	H
	* 10.887	22.21	MAv1	37.7	-20.3	39.61	54	-14.39	-	-	0	242	H
4	6.138	37.14	PK2	35.8	-26.3	46.64	-	-	-	-	280	214	V

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

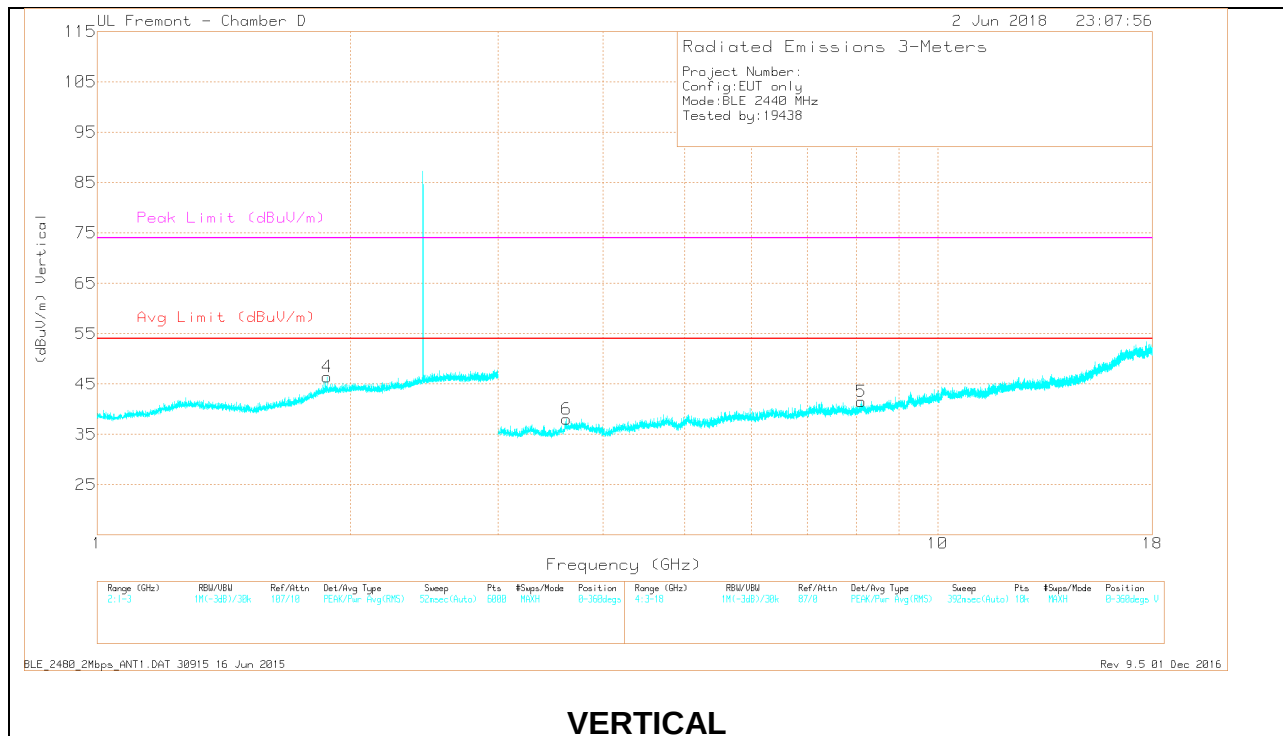
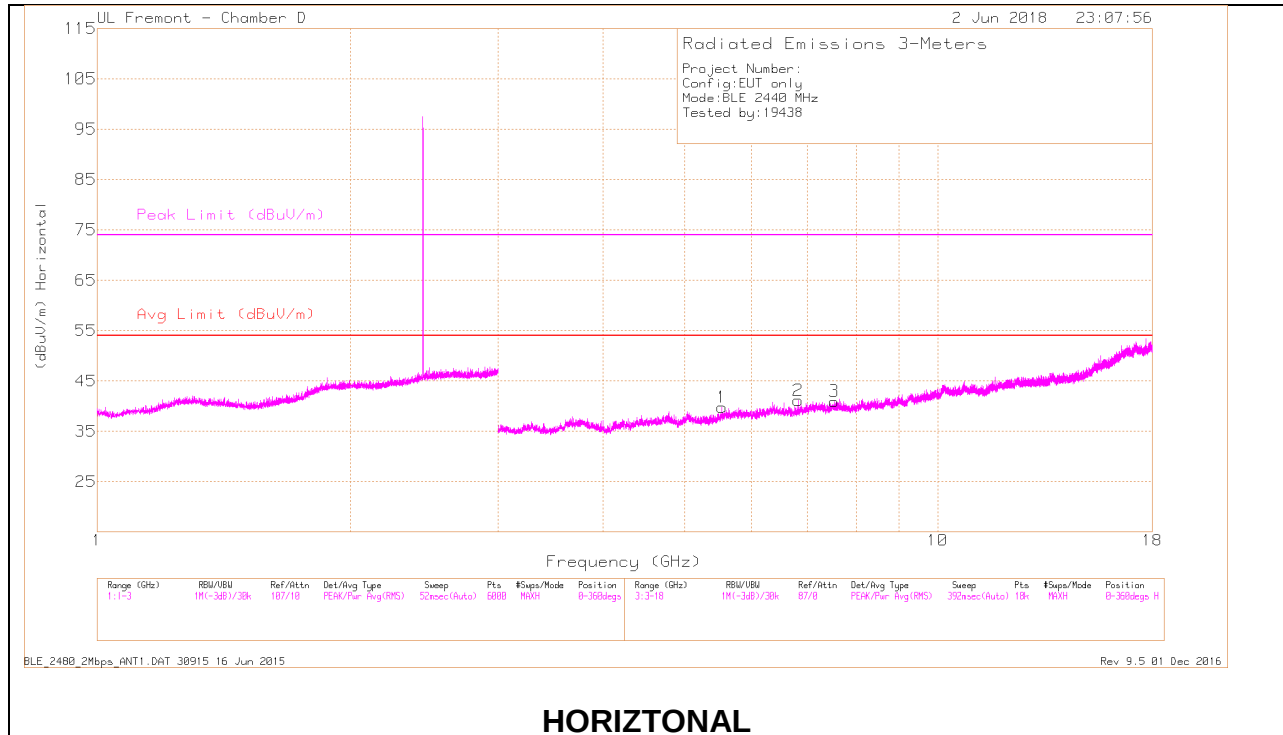
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15 Subpart C 2.4GHz RSE.TST 30915 16 Jun 2015

Rev 9.5 01 Dec 2016

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 7.53	35.45	PK2	36.3	-24.5	47.25	-	-	74	-26.75	120	337	H
	* 7.526	24.45	MAv1	36.3	-24.5	36.25	54	-17.75	-	-	120	337	H
5	* 8.109	35.1	PK2	35.8	-22.9	48	-	-	74	-26	252	181	V
	* 8.102	23.89	MAv1	35.8	-23	36.69	54	-17.31	-	-	252	181	V
6	* 3.619	37.64	PK2	33.6	-28.1	43.14	-	-	74	-30.86	289	125	V
	* 3.621	26	MAv1	33.6	-28.2	31.4	54	-22.6	-	-	289	125	V
4	1.877	43.84	PK2	31.4	-21.1	54.14	-	-	-	-	23	252	V
1	5.536	37.45	PK2	35	-26.8	45.65	-	-	-	-	122	283	H
2	6.806	35.96	PK2	36	-25.6	46.36	-	-	-	-	222	283	H

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

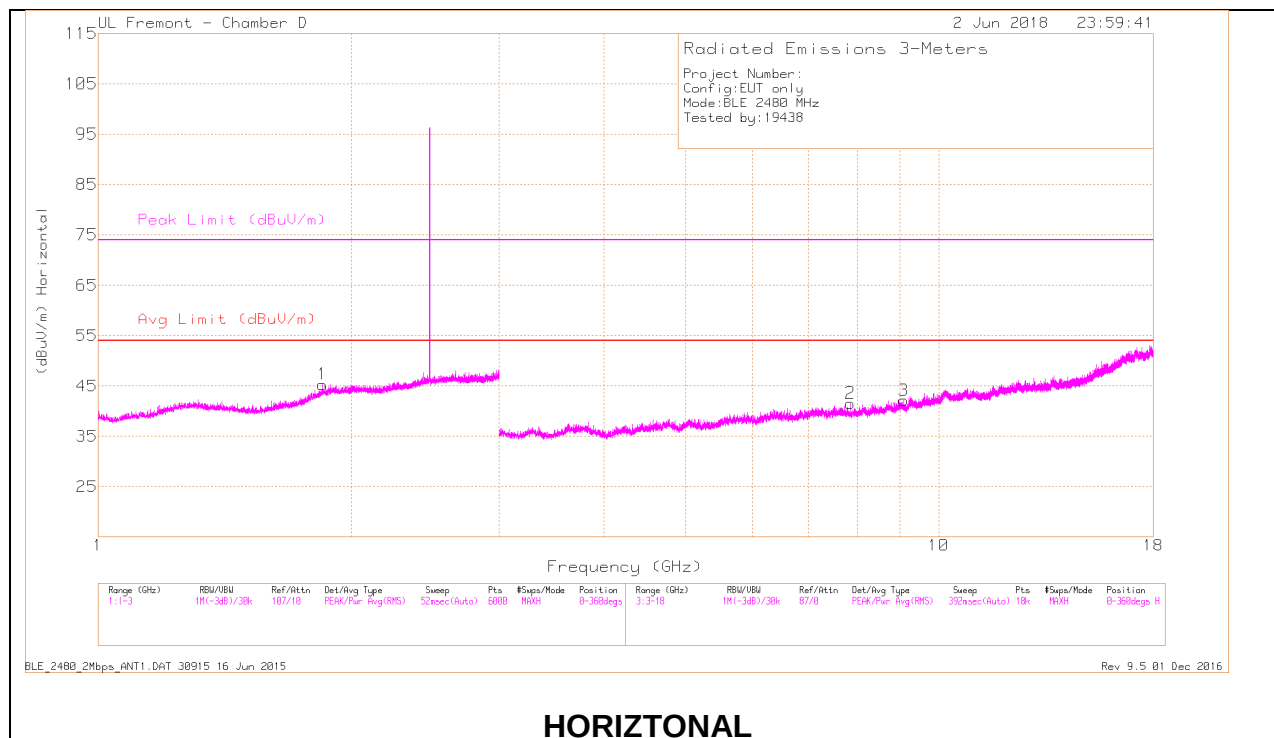
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

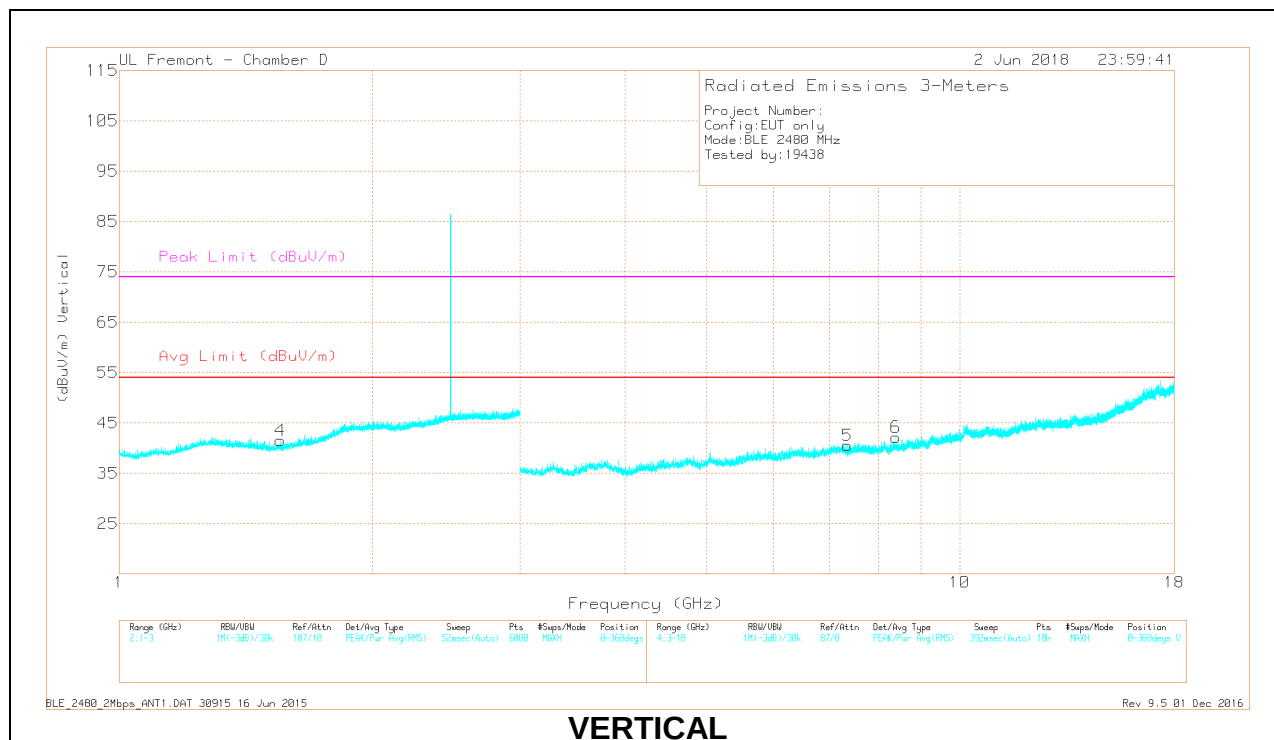
BLE_2480_2Mbps_ANT1.DAT 30915 16 Jun 2015

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HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.558	41.99	PK2	28	-21.6	48.39	-	-	74	-25.61	266	171	V
	* 1.551	30.44	MAv1	28	-21.7	36.74	54	-17.26	-	-	266	171	V
3	* 9.096	33.96	PK2	36.3	-21.9	48.36	-	-	74	-25.64	284	386	H
	* 9.102	22.97	MAv1	36.3	-22	37.27	54	-16.73	-	-	284	386	H
5	* 7.342	35.6	PK2	36.1	-24.5	47.2	-	-	74	-26.8	329	201	V
	* 7.339	24.7	MAv1	36.1	-24.5	36.3	54	-17.7	-	-	329	201	V
6	* 8.381	35.23	PK2	35.9	-22.6	48.53	-	-	74	-25.47	136	167	V
	* 8.391	23.37	MAv1	35.9	-22.7	36.57	54	-17.43	-	-	136	167	V
1	1.865	41.77	PK2	31.3	-21.1	51.97	-	-	-	-	210	254	H
2	7.829	35.47	PK2	35.8	-23.7	47.57	-	-	-	-	171	277	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

BLE_2480_2Mbps_ANT1.DAT 30915 16 Jun 2015

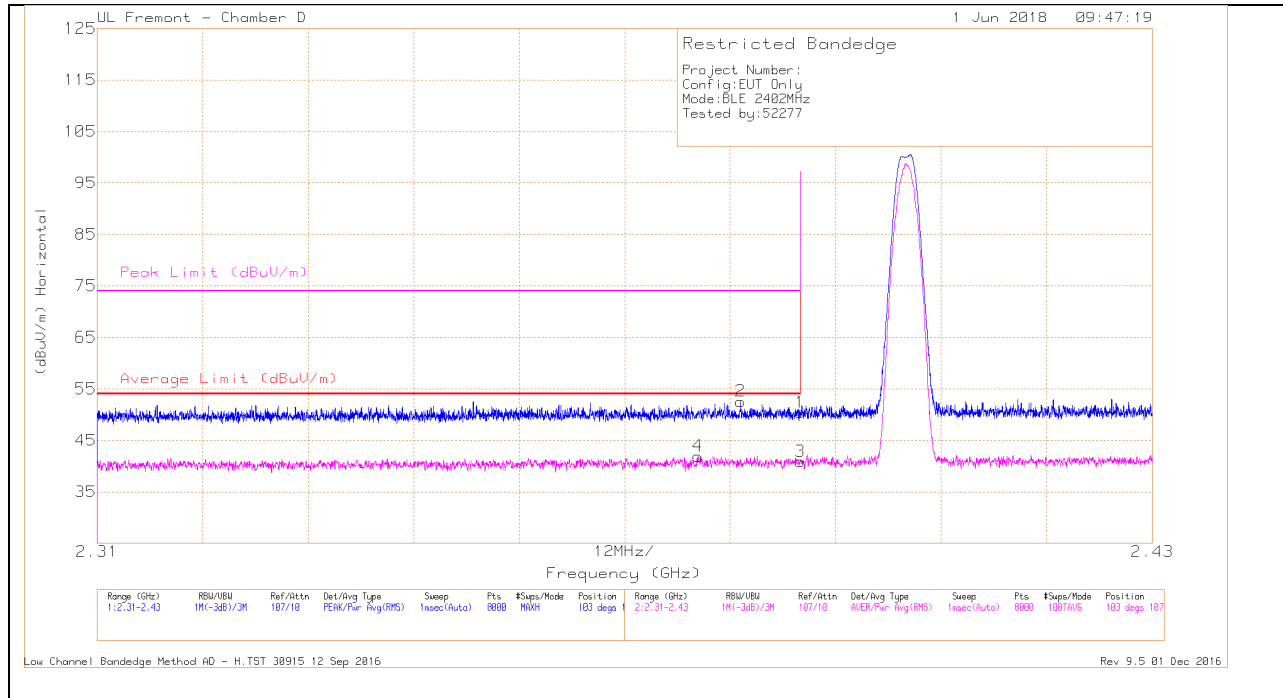
Rev 9.5 01 Dec 2016

9.2.4. LOW POWER BLE (2Mbps)

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.05	Pk	31.9	-20.5	50.45	-	-	74	-23.55	103	107	H
2	* 2.383	41.29	Pk	31.8	-20.5	52.59	-	-	74	-21.41	103	107	H
3	* 2.39	29.5	RMS	31.9	-20.5	40.9	54	-13.1	-	-	103	107	H
4	* 2.378	30.54	RMS	31.8	-20.4	41.94	54	-12.06	-	-	103	107	H

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

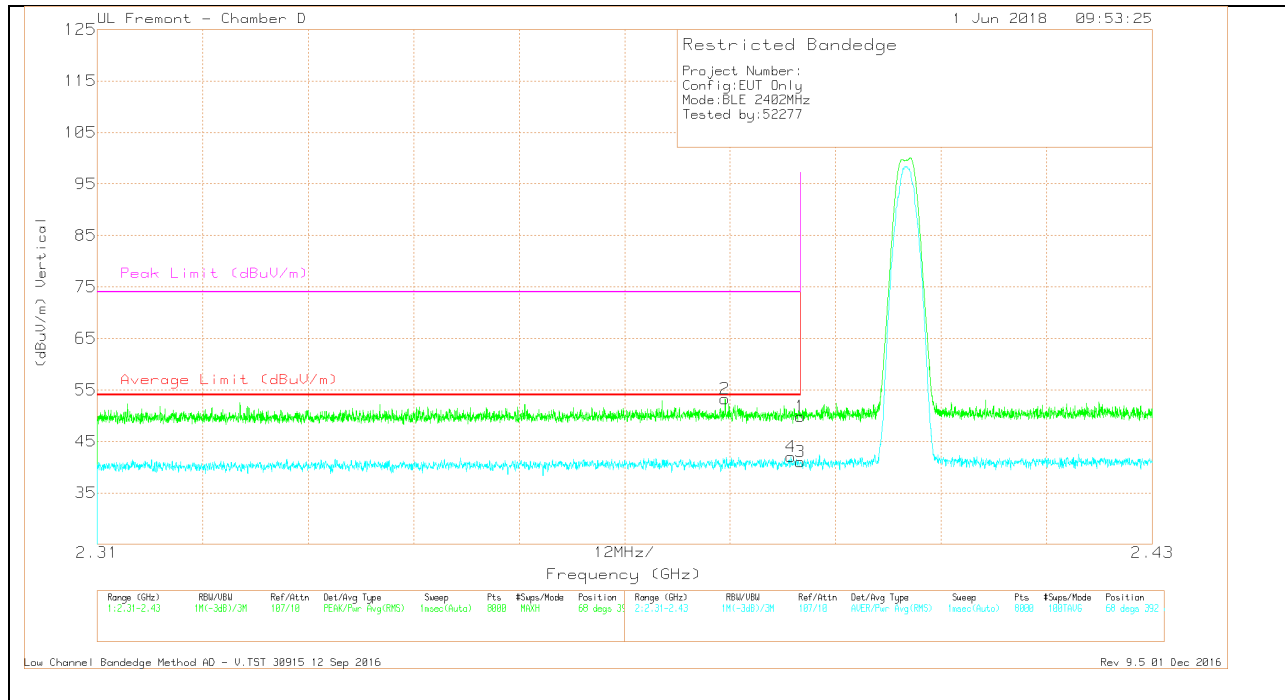
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.41	Pk	31.9	-20.5	49.81	-	-	74	-24.19	68	392	V
2	* 2.381	41.94	Pk	31.8	-20.5	53.24	-	-	74	-20.76	68	392	V
3	* 2.39	29.61	RMS	31.9	-20.5	41.01	54	-12.99	-	-	68	392	V
4	* 2.389	30.6	RMS	31.9	-20.5	42	54	-12	-	-	68	392	V

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

Pk - Peak detector

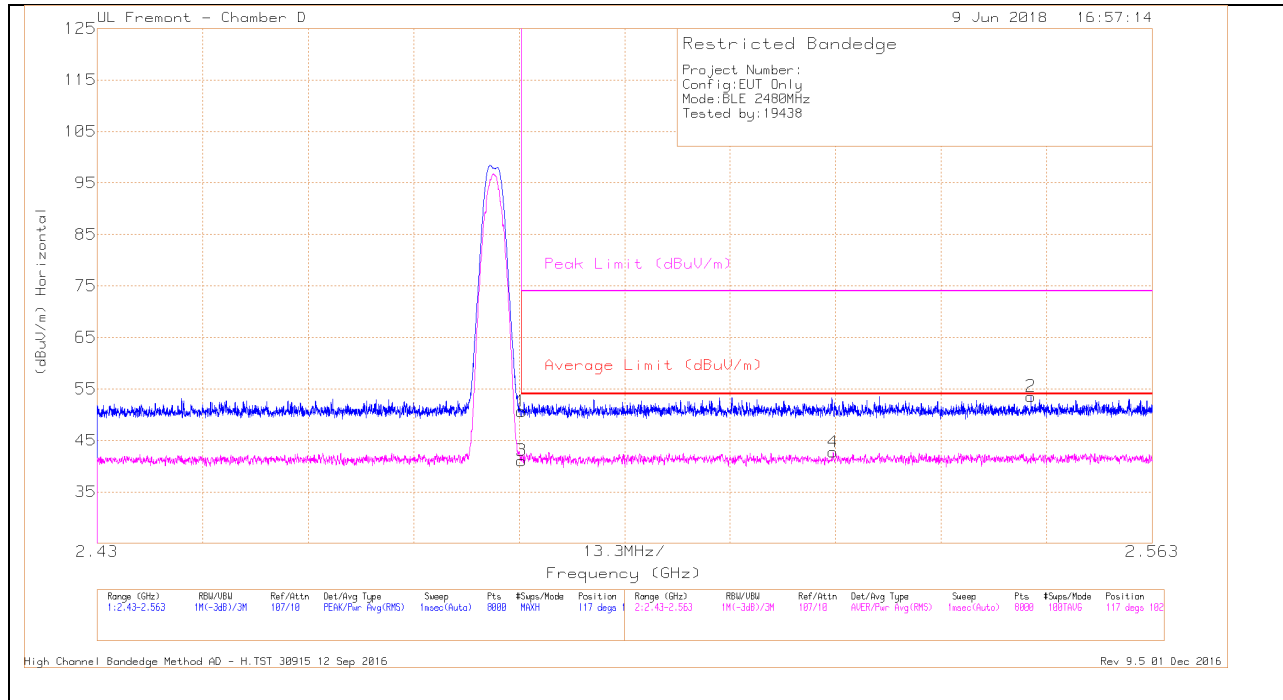
RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

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BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.65	Pk	32.4	-20.4	50.65	-	-	74	-23.35	117	102	H
3	* 2.484	29.09	RMS	32.4	-20.4	41.09	54	-12.91	-	-	117	102	H
4	2.523	30.73	RMS	32.4	-20.4	42.73	54	-11.27	-	-	117	102	H
2	2.548	41.43	Pk	32.4	-20.3	53.53	-	-	74	-20.47	117	102	H

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

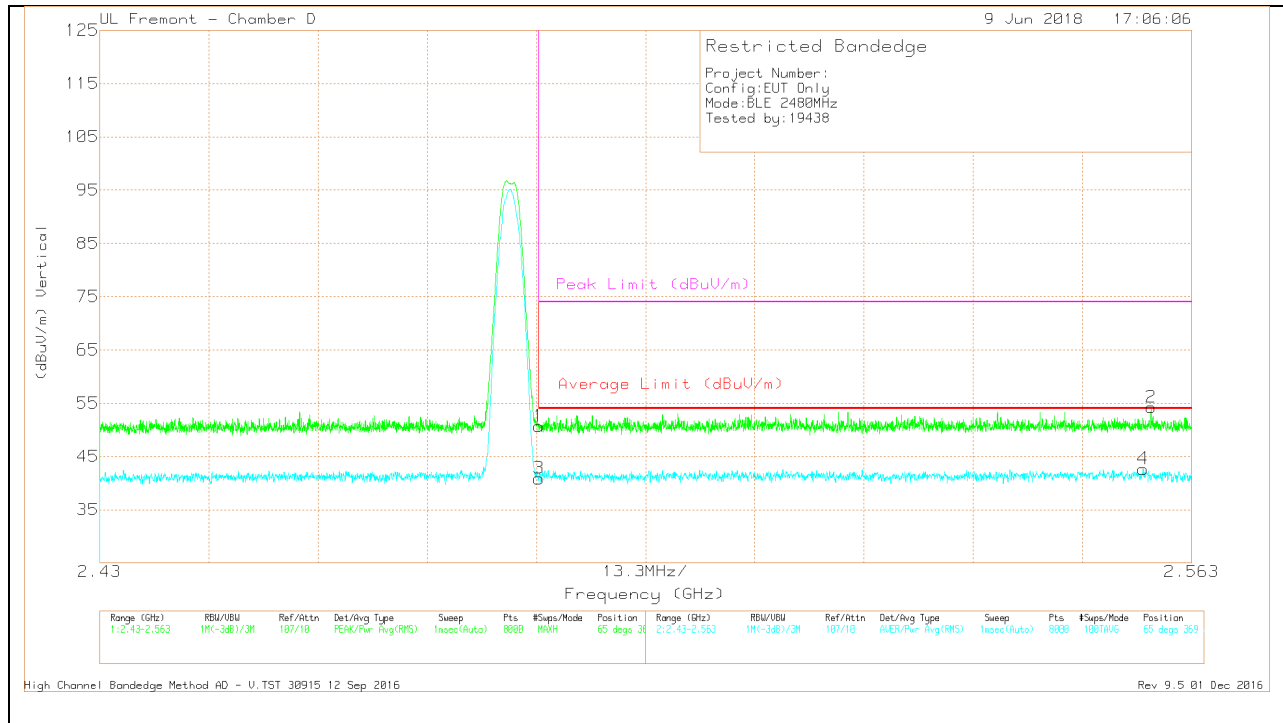
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.484	38.66	Pk	32.4	-20.4	50.66	-	-	74	-23.34	65	369	V
3	* 2.484	28.88	RMS	32.4	-20.4	40.88	54	-13.12	-	-	65	369	V
4	2.557	30.46	RMS	32.5	-20.3	42.66	54	-11.34	-	-	65	369	V
2	2.558	42.04	Pk	32.5	-20.3	54.24	-	-	74	-19.76	65	369	V

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

Pk - Peak detector

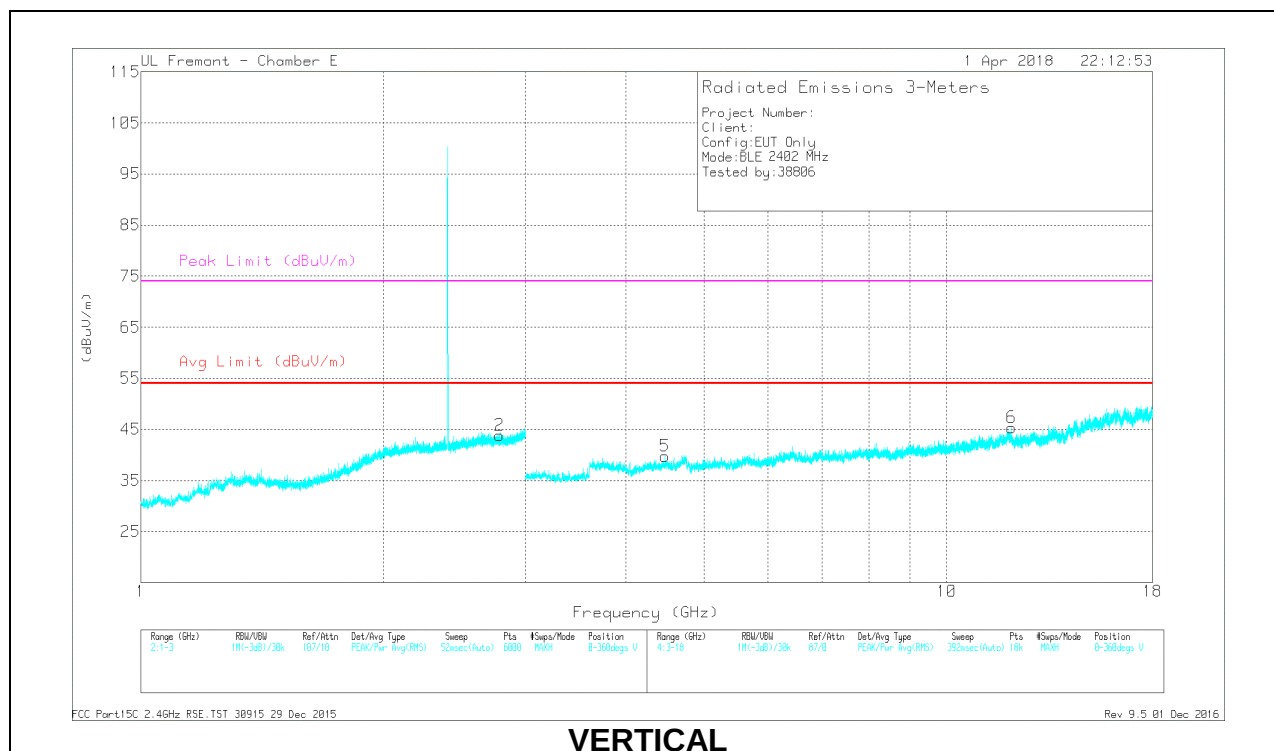
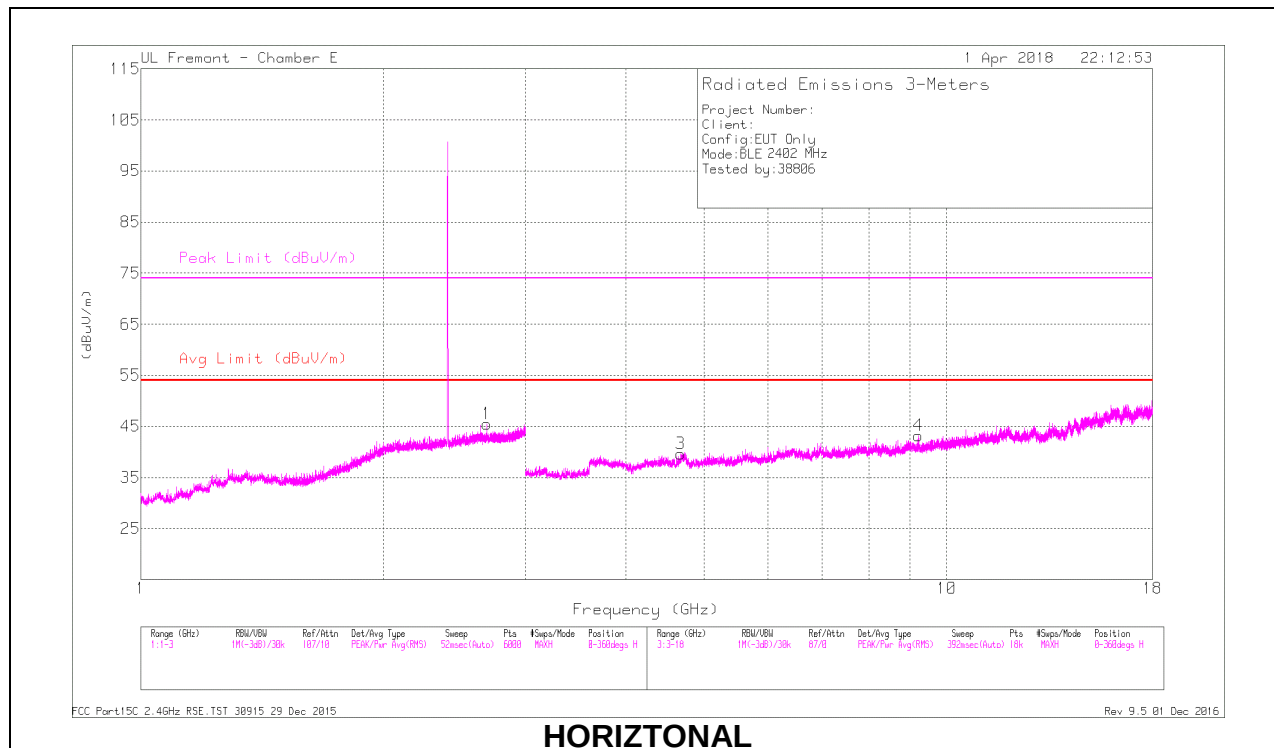
RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

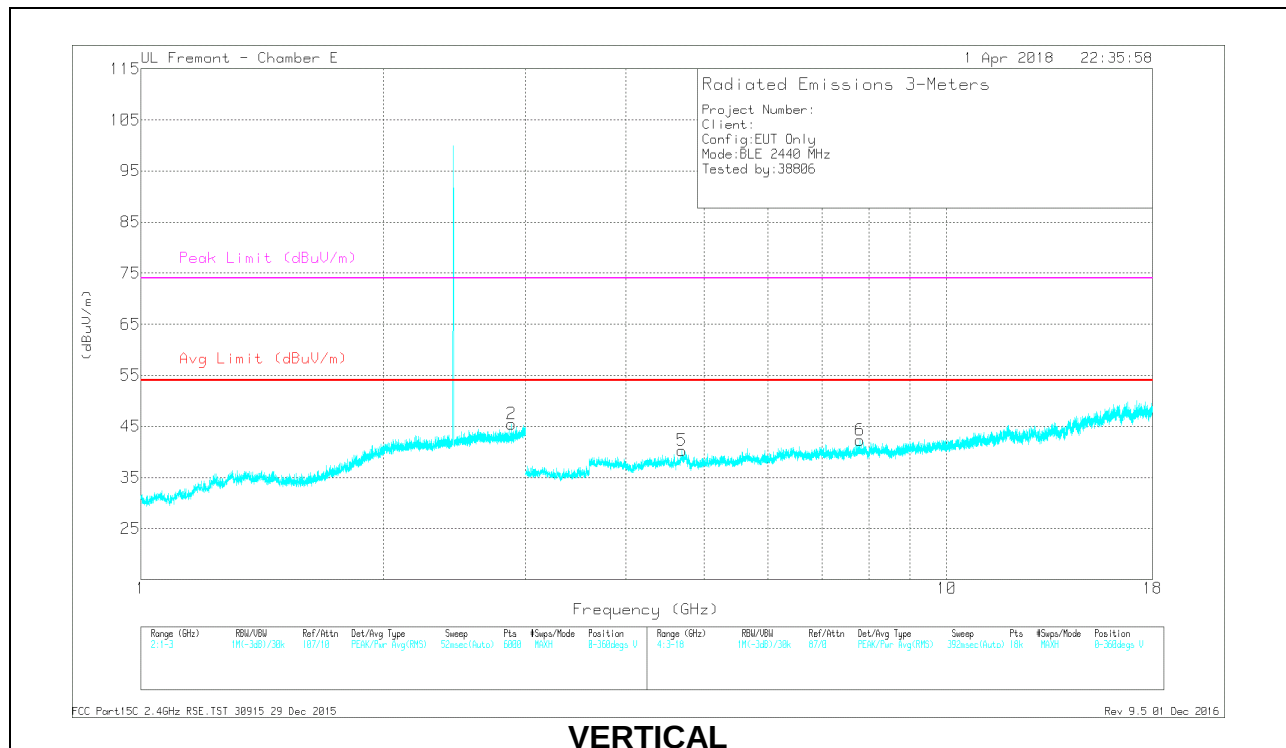
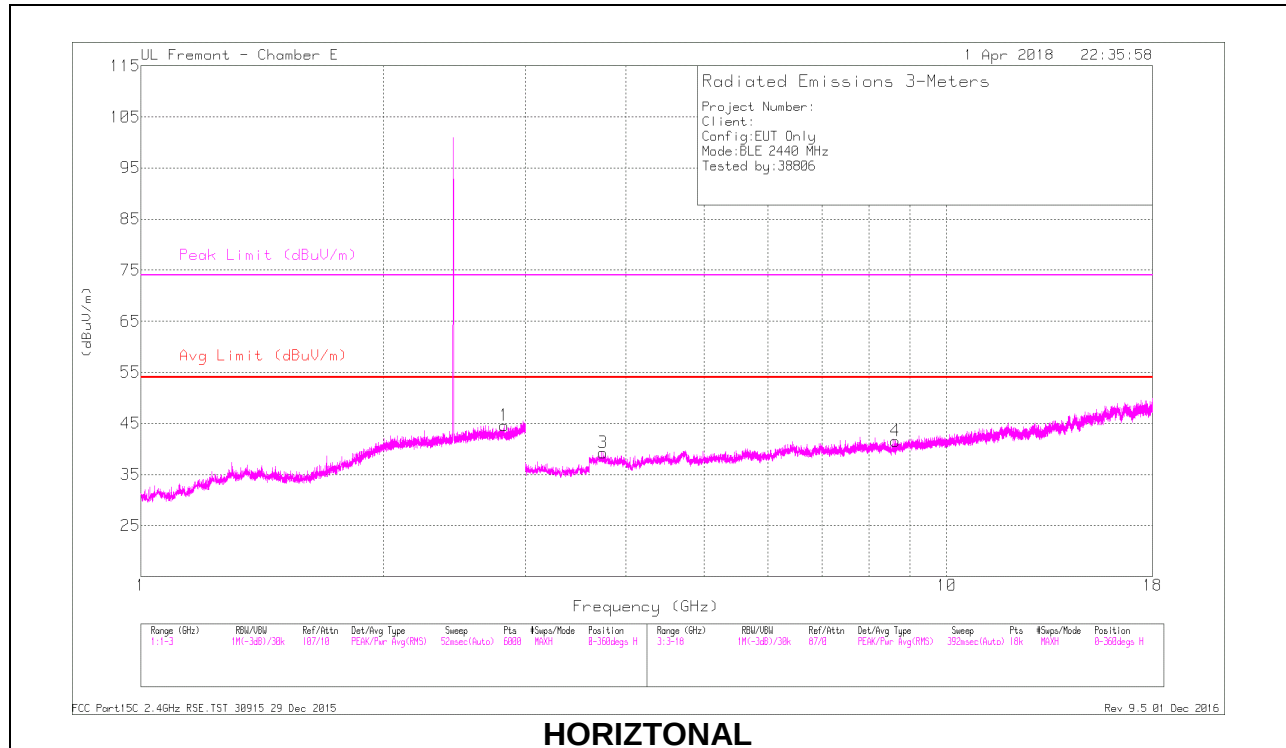
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.688	38.36	PK2	32.4	-19.3	51.46	-	-	74	-22.54	254	193	H
	* 2.688	18.59	MAv1	32.4	-19.3	31.69	54	-22.31	-	-	254	193	H
2	* 2.786	38.57	PK2	32.6	-19.3	51.87	-	-	74	-22.13	161	142	V
	* 2.787	20.83	MAv1	32.6	-19.3	34.13	54	-19.87	-	-	161	142	V
3	* 4.677	42	PK2	34.4	-29.1	47.3	-	-	74	-26.7	254	208	H
	* 4.677	29.24	MAv1	34.4	-29.1	34.54	54	-19.46	-	-	254	208	H
4	9.223	35.8	PK2	37.1	-24	48.9	-	-	-	-	66	168	H
5	4.469	40.92	PK2	34.4	-29.1	46.22	-	-	-	-	156	233	V
6	* 12.041	35.93	PK2	39.5	-23.5	51.93	-	-	74	-22.07	280	198	V
	* 12.04	23.35	MAv1	39.6	-23.5	39.45	54	-14.55	-	-	280	198	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

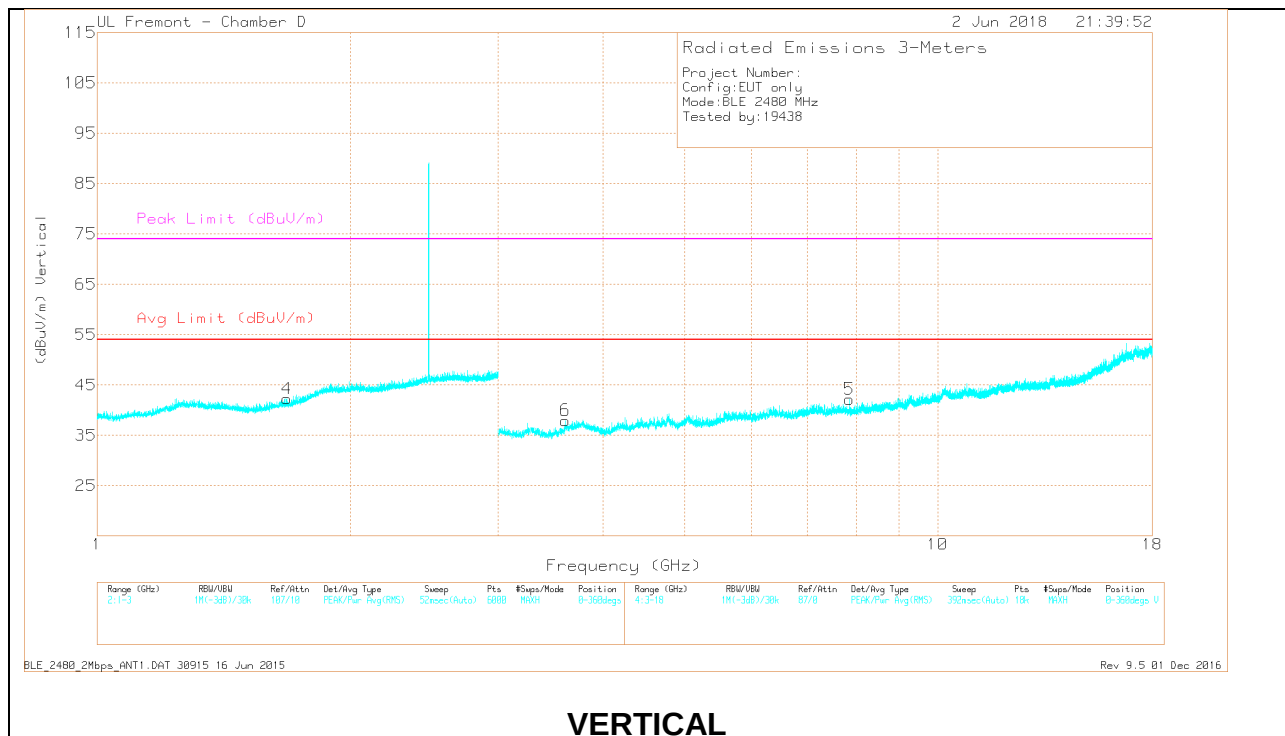
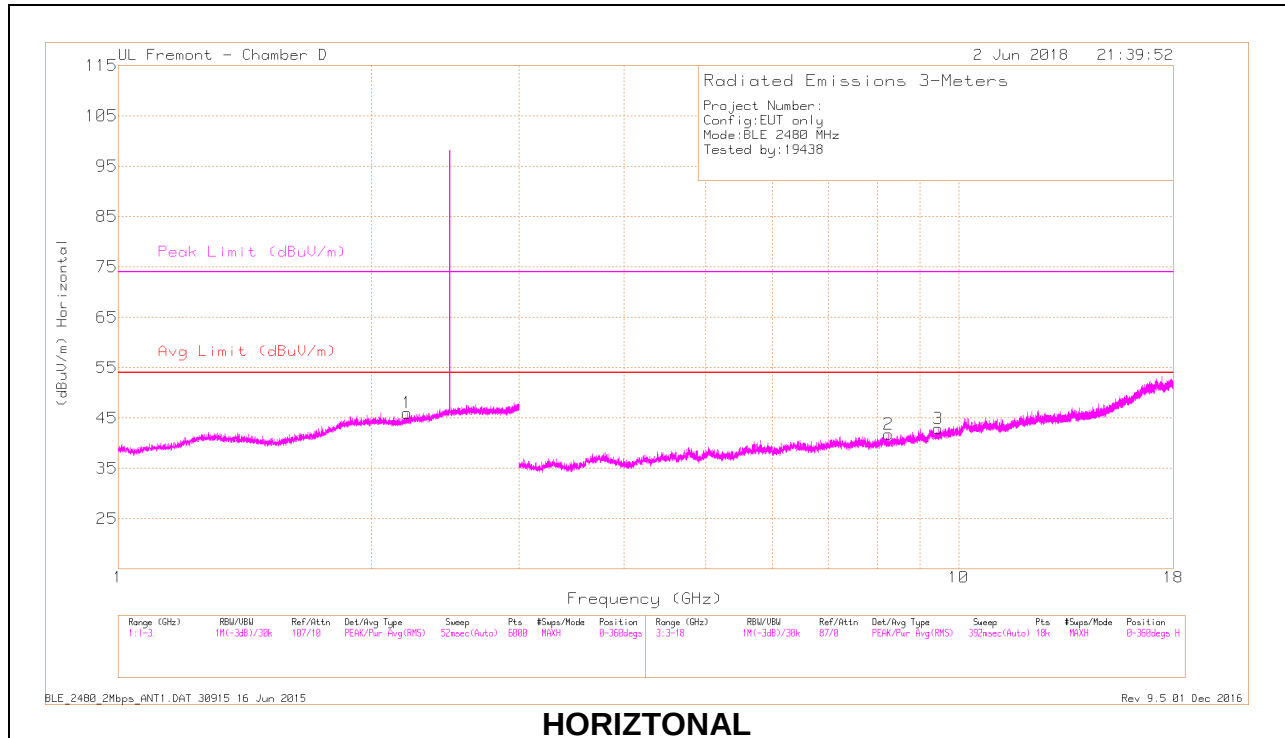
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.822	38.47	PK2	32.7	-19.2	51.97	-	-	74	-22.03	234	186	H
	* 2.82	18.15	MAv1	32.7	-19.2	31.65	54	-22.35	-	-	234	186	H
2	* 2.885	37.94	PK2	32.8	-19	51.74	-	-	74	-22.26	301	200	V
	* 2.884	20.9	MAv1	32.8	-19.1	34.6	54	-19.4	-	-	301	200	V
3	* 3.746	41.3	PK2	33.6	-29.7	45.2	-	-	74	-28.8	202	148	H
	* 3.747	29.66	MAv1	33.6	-29.7	33.56	54	-20.44	-	-	202	148	H
4	8.638	36.17	PK2	36.6	-24.9	47.87	-	-	-	-	87	204	H
5	* 4.69	41.11	PK2	34.4	-29.1	46.41	-	-	74	-27.59	161	187	V
	* 4.69	29.37	MAv1	34.4	-29.1	34.67	54	-19.33	-	-	161	187	V
6	7.804	37.56	PK2	36.5	-25.6	48.46	-	-	-	-	277	247	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 T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.277	42.19	PK2	31.5	-20.6	53.09	-	-	74	-20.91	191	116	H
	* 2.273	30.12	MAv1	31.5	-20.6	41.02	54	-12.98	-	-	191	116	H
4	* 1.695	42.23	PK2	29	-21.4	49.83	-	-	74	-24.17	293	104	V
	* 1.685	30.02	MAv1	29	-21.4	37.62	54	-16.38	-	-	293	104	V
2	* 8.245	35.79	PK2	35.8	-23.6	47.99	-	-	74	-26.01	346	194	H
	* 8.251	24.41	MAv1	35.9	-23.6	36.71	54	-17.29	-	-	346	194	H
3	* 9.47	33.5	PK2	36.6	-20.7	49.4	-	-	74	-24.6	169	244	H
	* 9.434	22.24	MAv1	36.6	-21	37.84	54	-16.16	-	-	169	244	H
6	* 3.606	37.95	PK2	33.5	-27.9	43.55	-	-	74	-30.45	284	384	V
	* 3.608	26.26	MAv1	33.5	-27.9	31.86	54	-22.14	-	-	284	384	V
5	7.831	35.04	PK2	35.8	-23.7	47.14	-	-	-	-	233	306	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

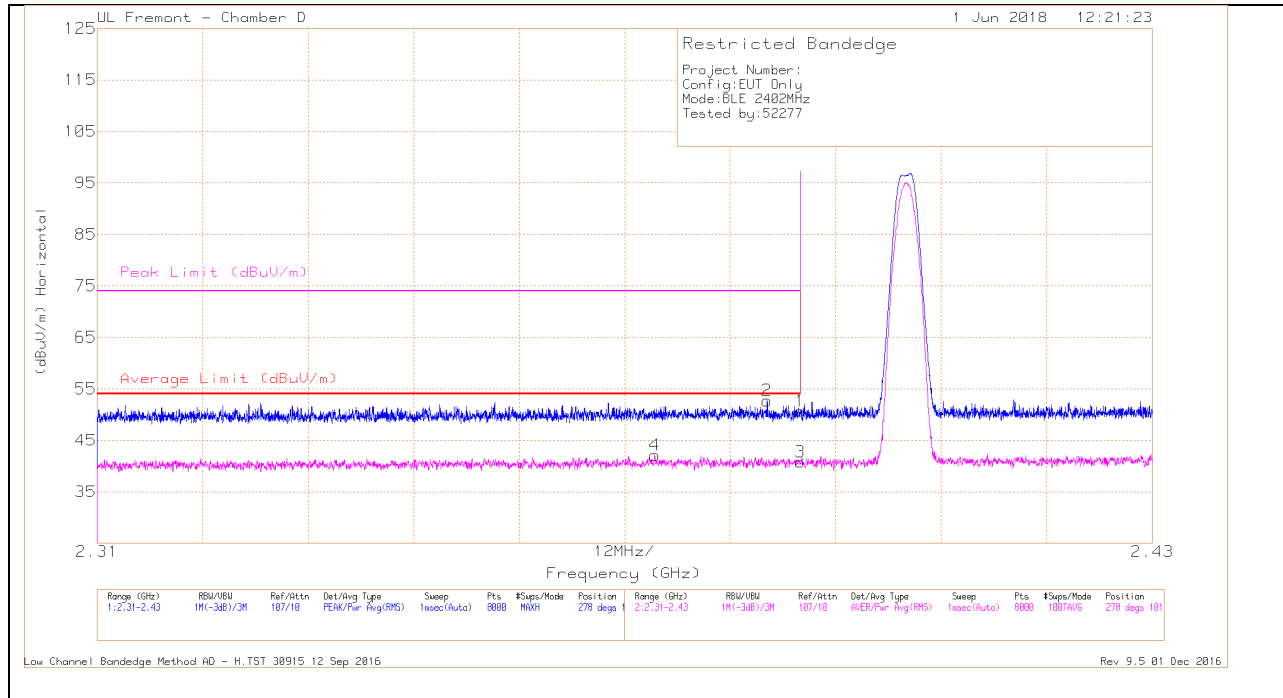
BLE_2480_2Mbps_ANT1.DAT 30915 16 Jun 2015

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Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.26	Pk	31.9	-20.5	50.66	-	-	74	-23.34	278	101	H
2	* 2.386	41.32	Pk	31.9	-20.5	52.72	-	-	74	-21.28	278	101	H
3	* 2.39	29.4	RMS	31.9	-20.5	40.8	54	-13.2	-	-	278	101	H
4	* 2.373	30.8	RMS	31.8	-20.5	42.1	54	-11.9	-	-	278	101	H

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

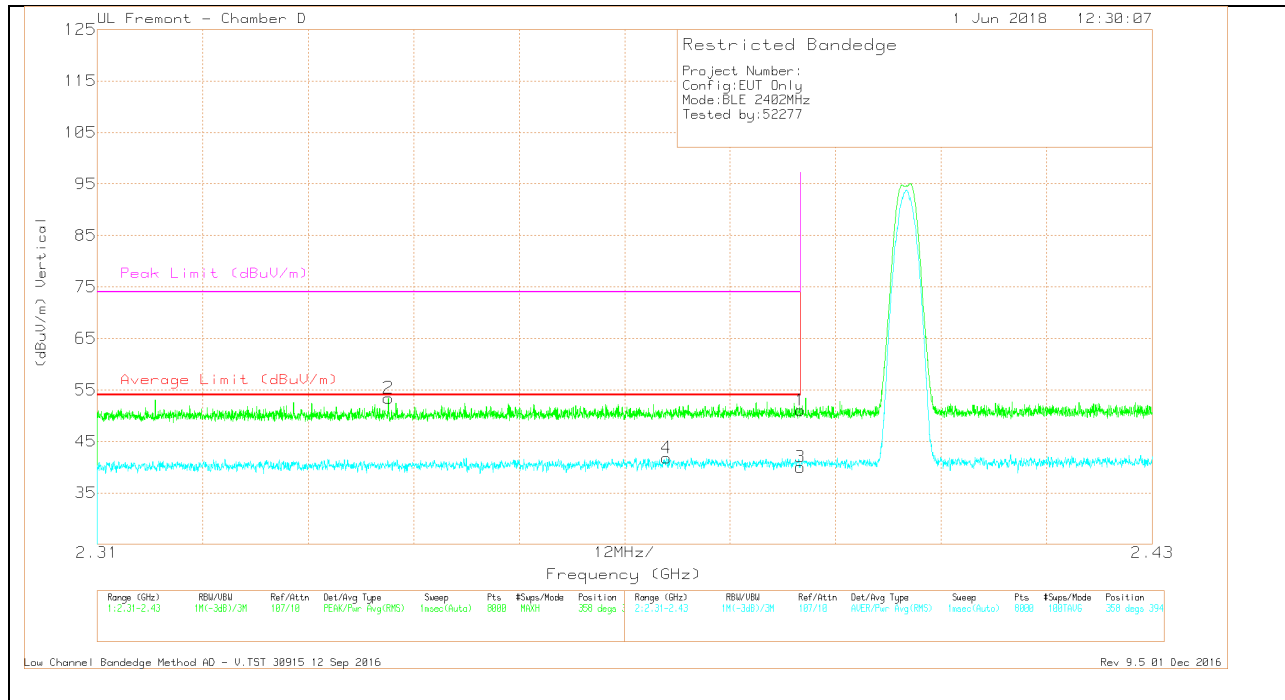
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fltr/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	39.67	Pk	31.9	-20.5	51.07	-	-	74	-22.93	358	394	V
2	* 2.343	42.42	Pk	31.6	-20.6	53.42	-	-	74	-20.58	358	394	V
3	* 2.39	28.62	RMS	31.9	-20.5	40.02	54	-13.98	-	-	358	394	V
4	* 2.375	30.5	RMS	31.8	-20.5	41.8	54	-12.2	-	-	358	394	V

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

Pk - Peak detector

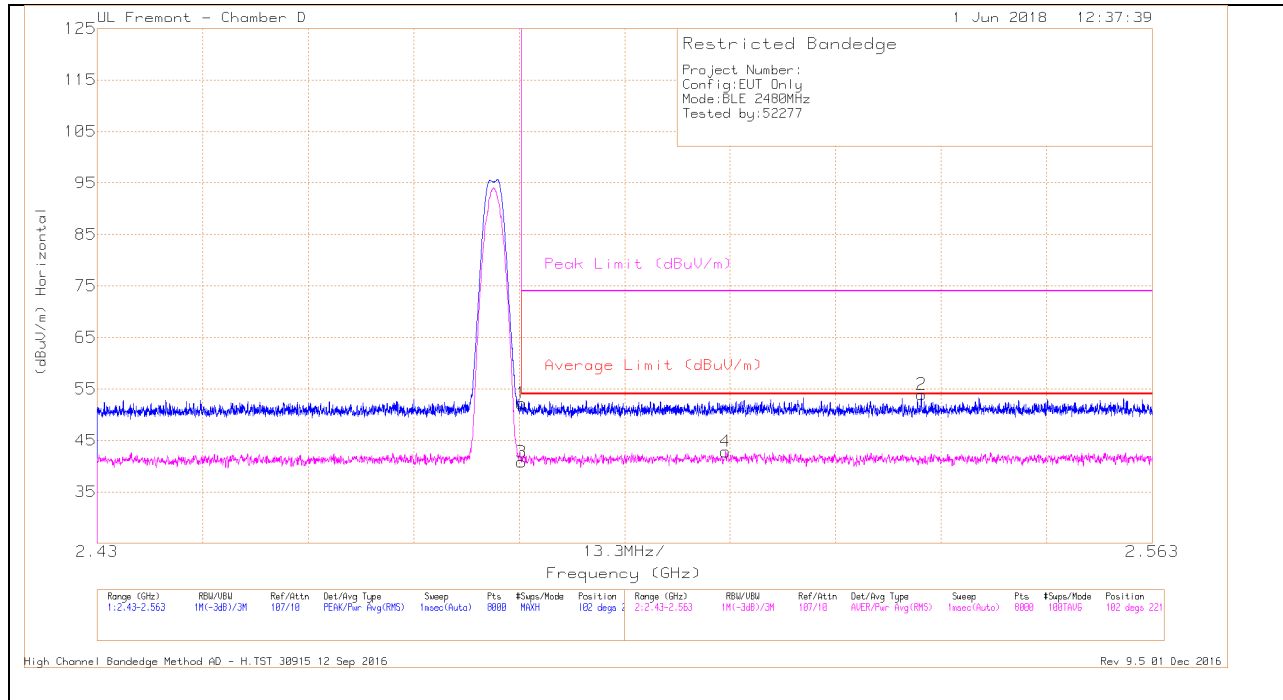
RMS - RMS detection

Low Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

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BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.23	Pk	32.4	-20.4	52.23	-	-	74	-21.77	102	221	H
3	* 2.484	28.8	RMS	32.4	-20.4	40.8	54	-13.2	-	-	102	221	H
4	2.509	30.73	RMS	32.4	-20.3	42.83	54	-11.17	-	-	102	221	H
2	2.534	41.9	Pk	32.4	-20.4	53.9	-	-	74	-20.1	102	221	H

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

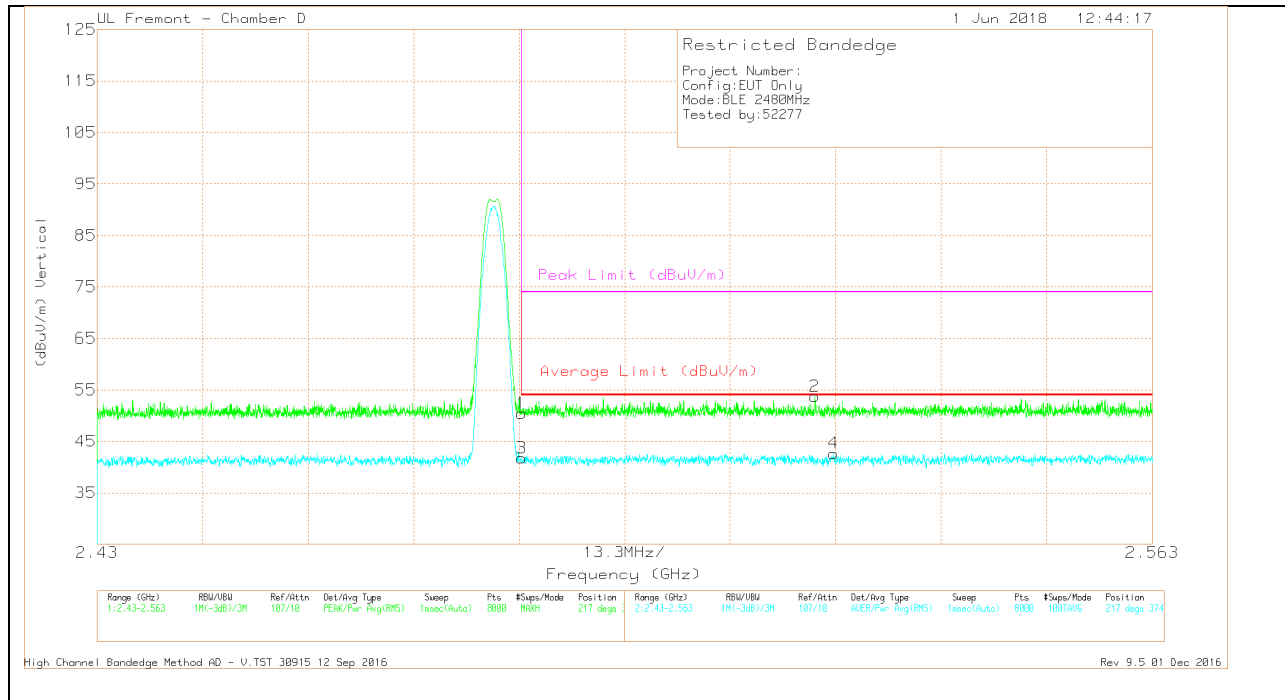
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtz/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.46	Pk	32.4	-20.4	50.46	-	-	74	-23.54	217	374	V
3	* 2.484	29.75	RMS	32.4	-20.4	41.75	54	-12.25	-	-	217	374	V
2	2.52	41.75	Pk	32.4	-20.4	53.75	-	-	74	-20.25	217	374	V
4	2.523	30.69	RMS	32.4	-20.4	42.69	54	-11.31	-	-	217	374	V

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

Pk - Peak detector

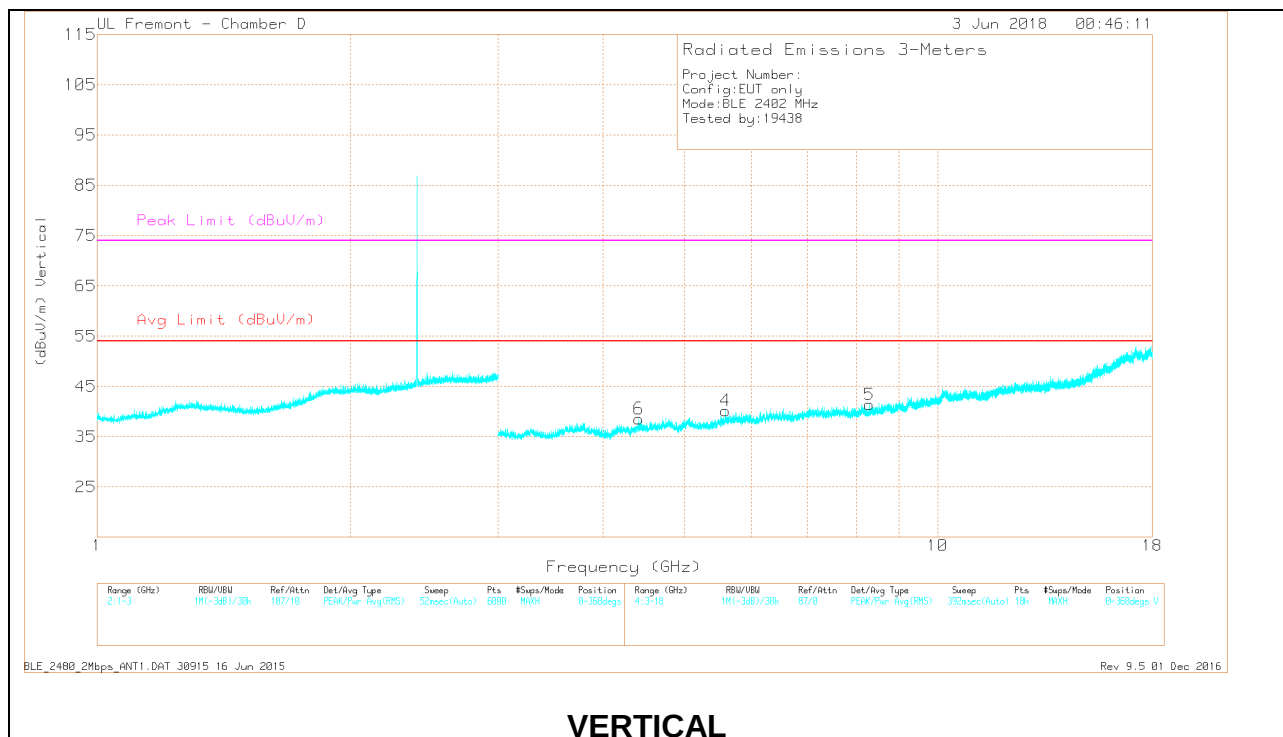
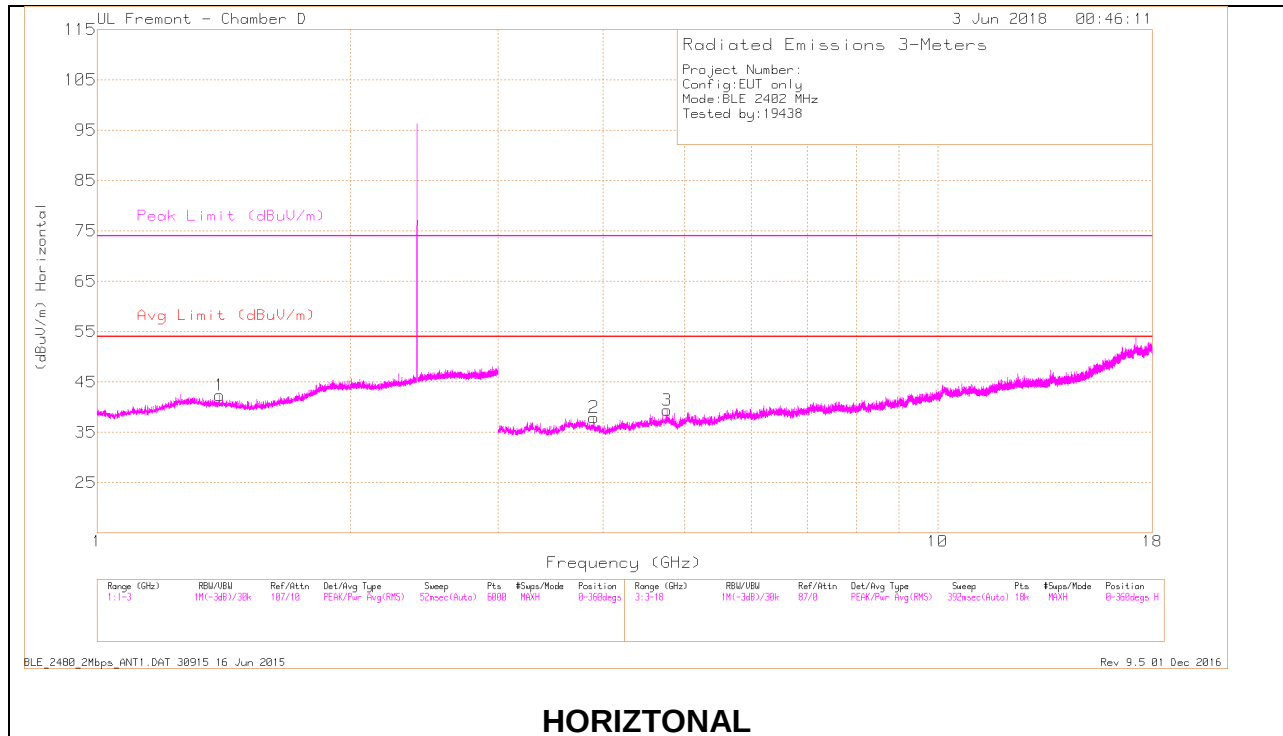
RMS - RMS detection

High Channel Bandedge Method AD - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.418	41.91	PK2	28.7	-21.8	48.81	-	-	74	-25.19	218	311	H
	* 1.416	29.69	MAv1	28.7	-21.8	36.59	54	-17.41	-	-	218	311	H
2	* 3.886	37.65	PK2	33.6	-27.9	43.35	-	-	74	-30.65	291	373	H
	* 3.887	26.93	MAv1	33.6	-27.9	32.63	54	-21.37	-	-	291	373	H
3	* 4.774	37.86	PK2	34.5	-26.3	46.06	-	-	74	-27.94	77	301	H
	* 4.778	26.43	MAv1	34.5	-26.2	34.73	54	-19.27	-	-	77	301	H
5	* 8.296	35.14	PK2	35.9	-23.3	47.74	-	-	74	-26.26	240	227	V
	* 8.294	23.61	MAv1	35.9	-23.3	36.21	54	-17.79	-	-	240	227	V
6	4.41	37.59	PK2	34.2	-27.4	44.39	-	-	-	-	119	290	V
4	5.599	37.2	PK2	35.2	-26.3	46.1	-	-	-	-	150	209	V

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

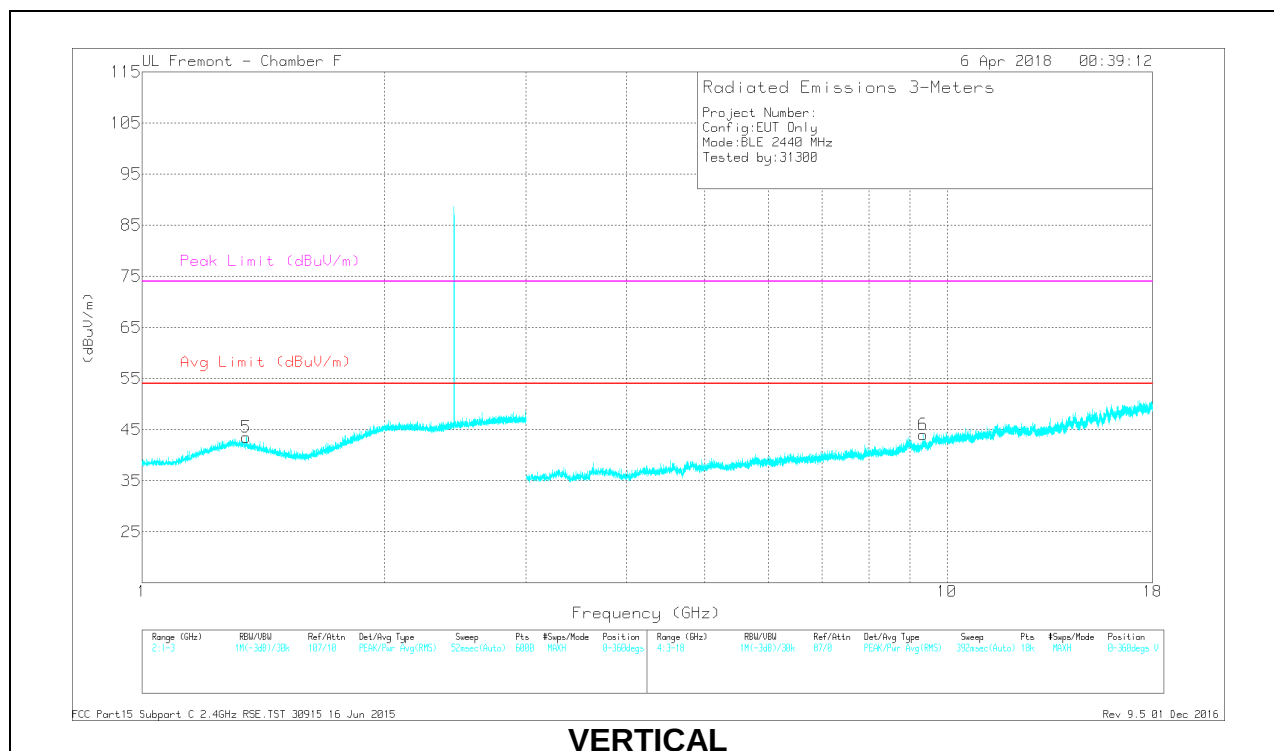
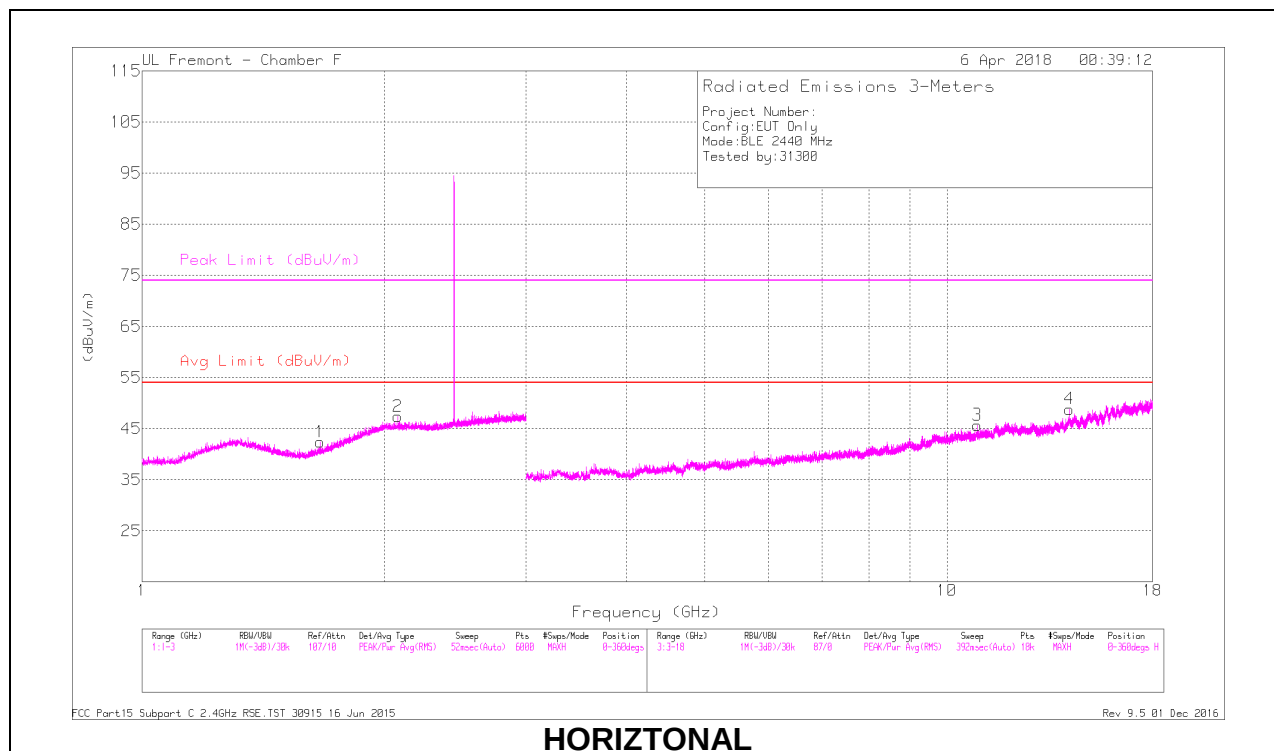
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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MID CHANNEL RESULTS



RADIATED EMISSIONS

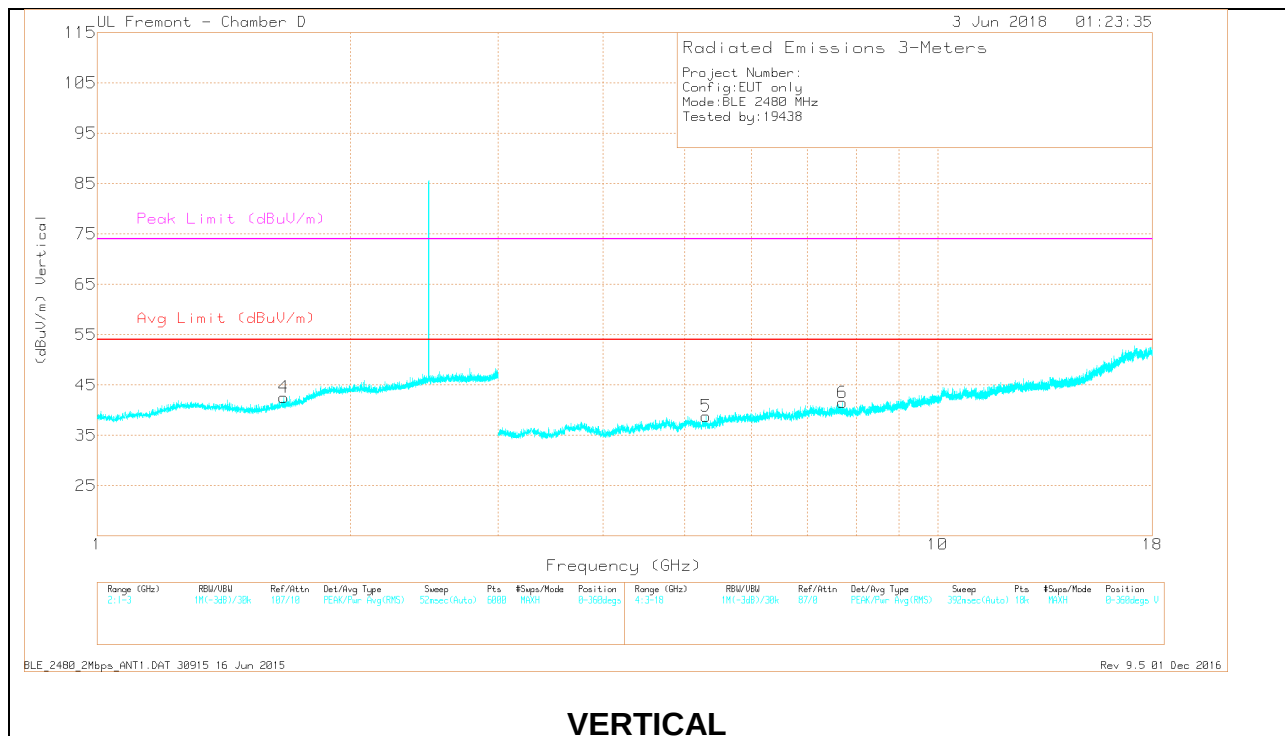
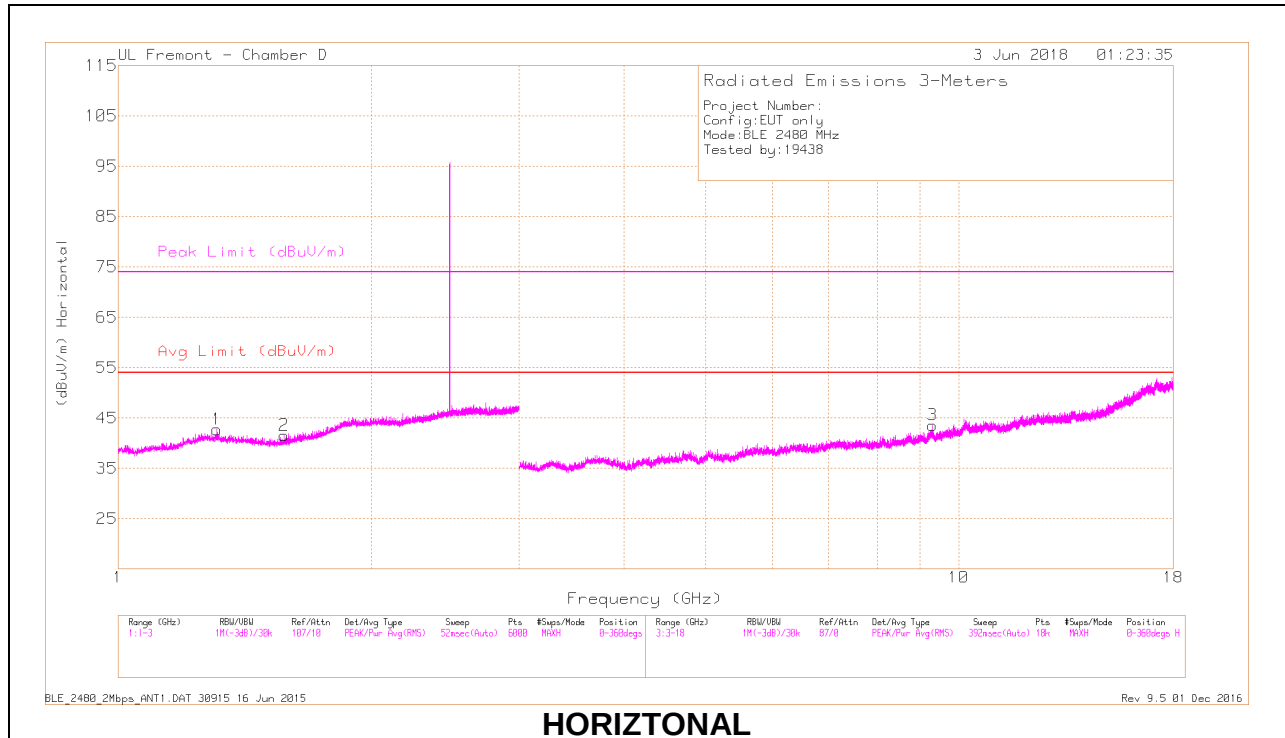
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.667	42.22	PK2	28	-21.5	48.72	-	-	74	-25.28	319	141	H
	* 1.667	30.07	MAv1	28	-21.5	36.57	54	-17.43	-	-	319	141	H
2	2.077	42.15	PK2	32.3	-21	53.45	-	-	-	-	348	298	H
5	* 1.349	41.76	PK2	29.6	-21.9	49.46	-	-	74	-24.54	98	123	V
	* 1.348	30.07	MAv1	29.6	-21.9	37.77	54	-16.23	-	-	98	123	V
3	* 10.911	34.38	PK2	37.9	-20.9	51.38	-	-	74	-22.62	20	202	H
	* 10.913	22.81	MAv1	37.9	-20.9	39.81	54	-14.19	-	-	20	202	H
4	14.192	36.95	PK2	40.5	-22.8	54.65	-	-	-	-	204	202	H
6	* 9.343	34.86	PK2	36.6	-21.8	49.66	-	-	74	-24.34	92	201	V
	* 9.342	23.26	MAv1	36.6	-21.8	38.06	54	-15.94	-	-	92	201	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 T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.312	41.81	PK2	29.2	-22	49.01	-	-	74	-24.99	156	213	H
	* 1.312	30.32	MAv1	29.2	-22	37.52	54	-16.48	-	-	156	213	H
2	* 1.563	41.73	PK2	28.1	-21.6	48.23	-	-	74	-25.77	232	266	H
	* 1.579	30.02	MAv1	28.2	-21.6	36.62	54	-17.38	-	-	232	266	H
4	* 1.688	41.91	PK2	29	-21.4	49.51	-	-	74	-24.49	23	365	V
	* 1.68	29.69	MAv1	28.9	-21.5	37.09	54	-16.91	-	-	23	365	V
3	* 9.303	33.02	PK2	36.4	-20.5	48.92	-	-	74	-25.08	160	241	H
	* 9.305	22.5	MAv1	36.4	-20.5	38.4	54	-15.6	-	-	160	241	H
6	* 7.715	35.9	PK2	36	-24.3	47.6	-	-	74	-26.4	51	140	V
	* 7.712	24.71	MAv1	36	-24.2	36.51	54	-17.49	-	-	51	140	V
5	5.317	37.09	PK2	34.8	-26.8	45.09	-	-	-	-	267	391	V

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

PK2 - KDB558074 Method: Maximum Peak

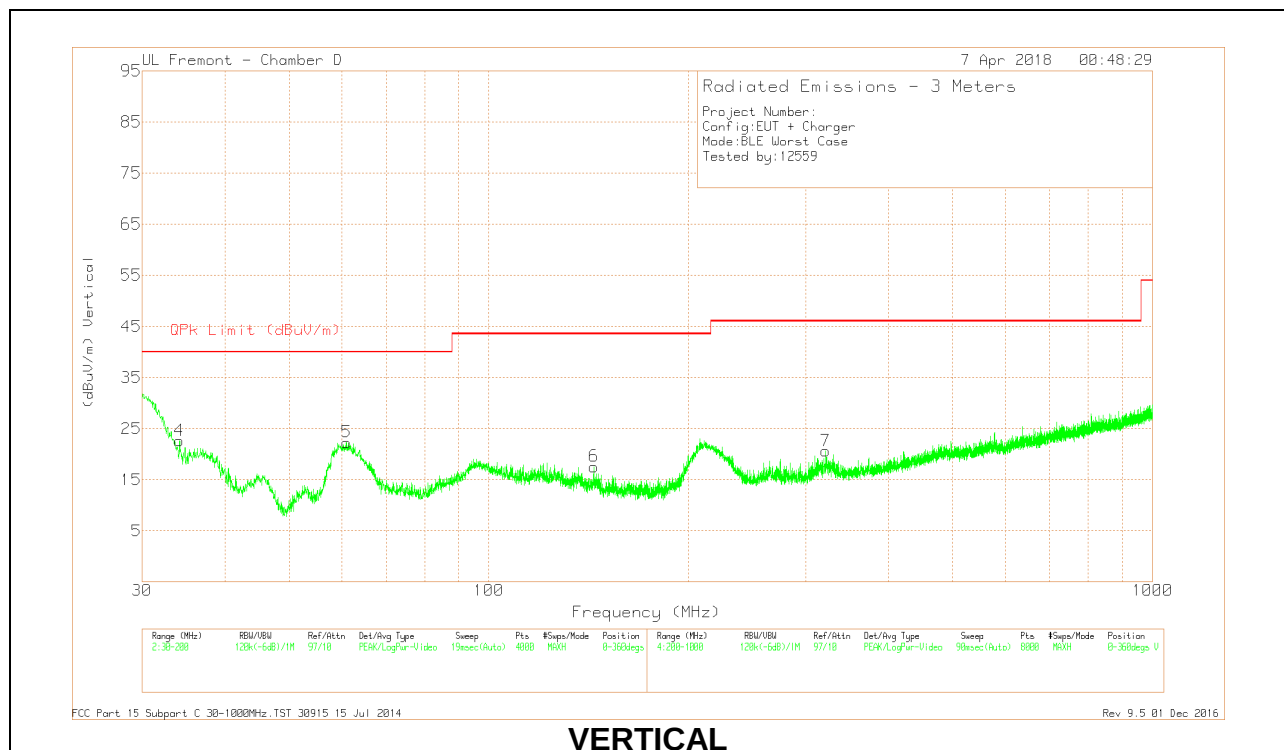
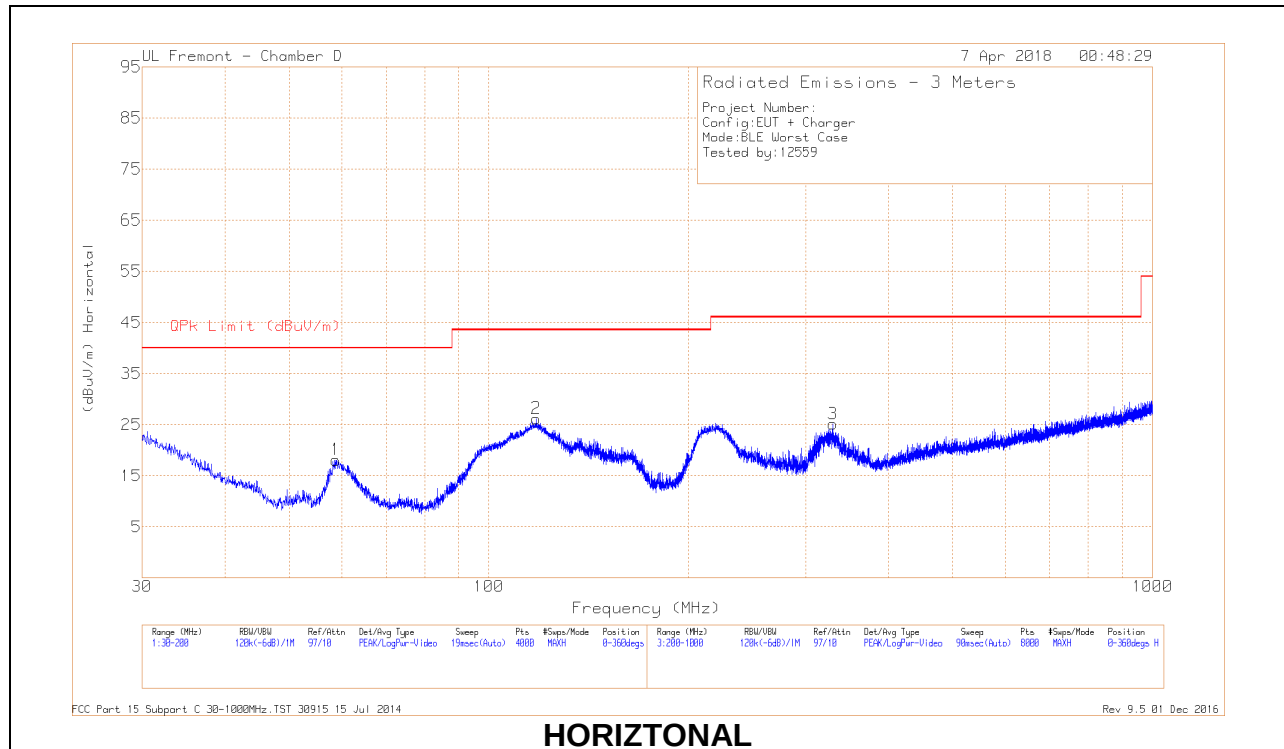
MAv1 - KDB558074 Option 1 Maximum RMS Average

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9.3. Worst Case Below 1 GHz

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

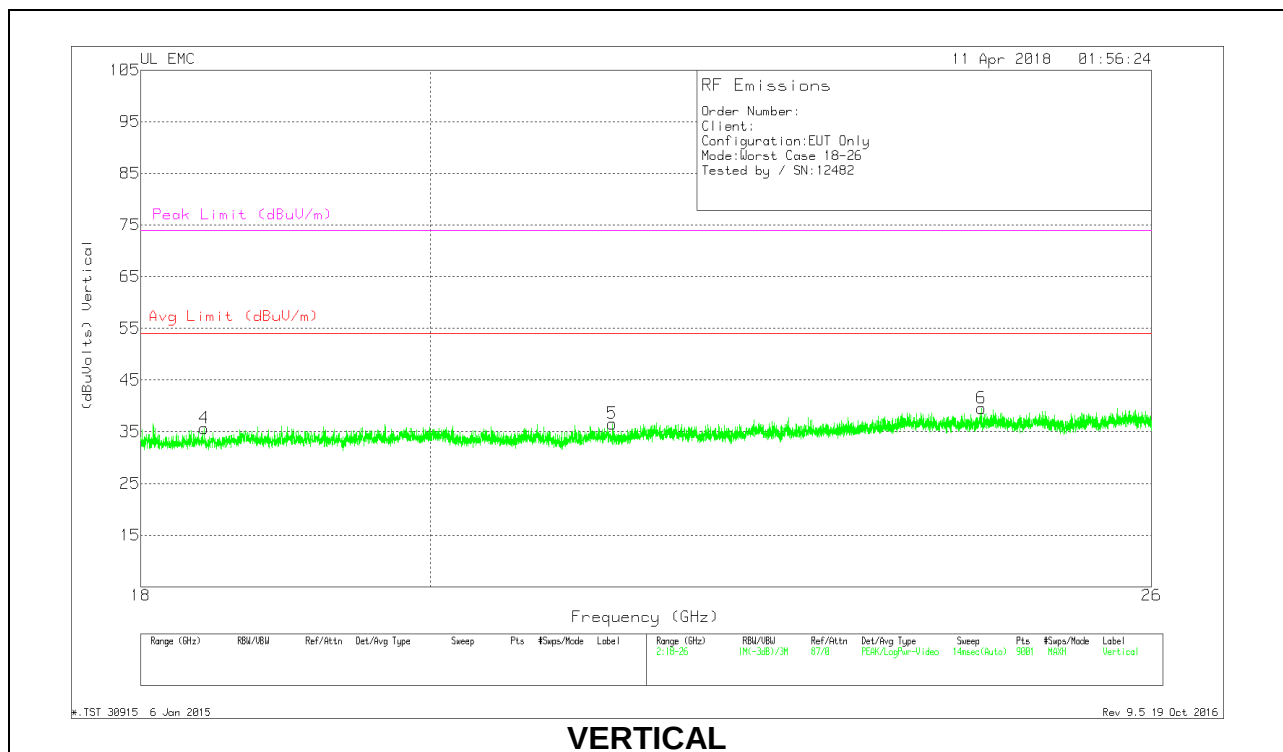
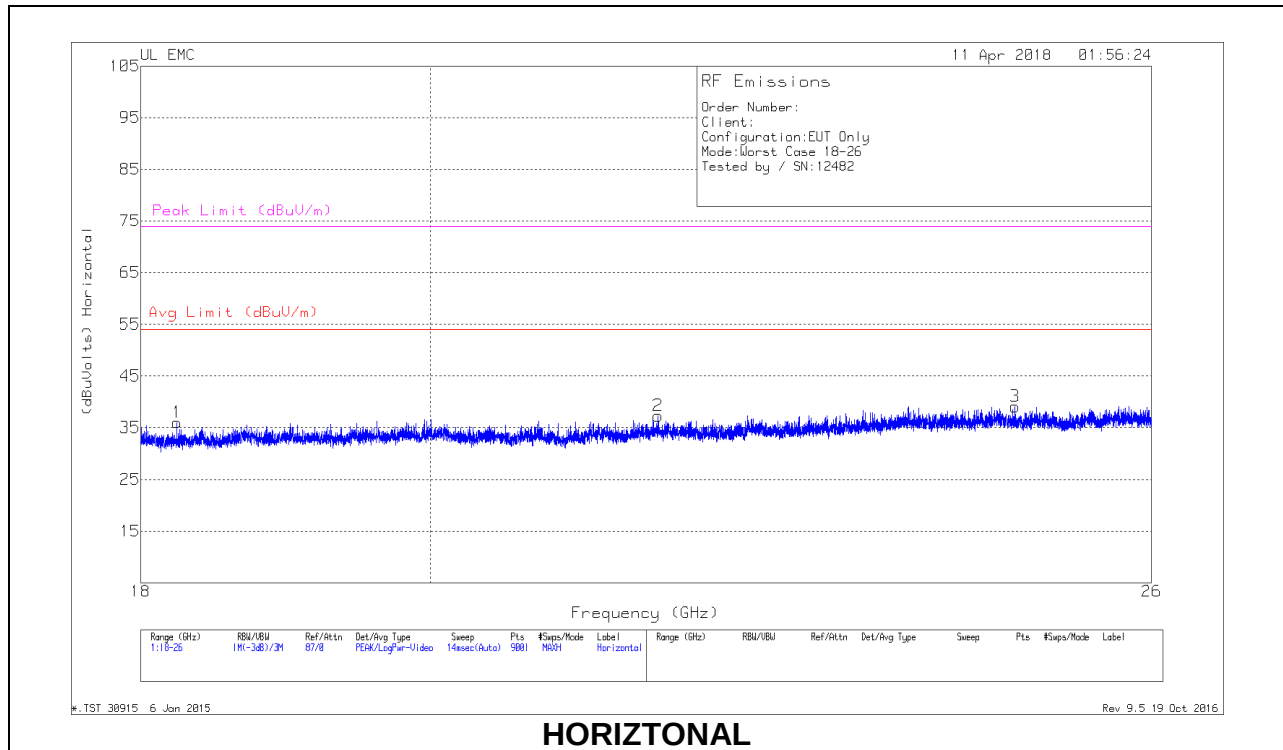


Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 117.8277	39.27	Pk	18.2	-31.3	26.17	43.52	-17.35	0-360	299	H
3	* 329.6168	36.86	Pk	18.5	-30.2	25.16	46.02	-20.86	0-360	101	H
4	34.1661	31.54	Pk	22.9	-31.8	22.64	40	-17.36	0-360	100	V
1	58.8225	37.5	Pk	12.2	-31.6	18.1	40	-21.9	0-360	399	H
5	60.9905	41.74	Pk	12.3	-31.7	22.34	40	-17.66	0-360	100	V
6	144.0358	31.59	Pk	17.1	-31.1	17.59	43.52	-25.93	0-360	100	V
7	321.6158	32.44	Pk	18.4	-30.2	20.64	46.02	-25.38	0-360	101	V

9.4. Worst Case 18-26 GHz

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



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Ampl/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	18.239	38.6	Pk	32.4	-25.5	-9.5	36	54	-18	74	-38
2	21.727	38.28	Pk	33.3	-24.8	-9.5	37.28	54	-16.72	74	-36.72
3	24.741	39.57	Pk	33.8	-24.8	-9.5	39.07	54	-14.93	74	-34.93
4	18.421	38.06	Pk	32.4	-25.3	-9.5	35.66	54	-18.34	74	-38.34
5	21.37	38.35	Pk	33.1	-25.4	-9.5	36.55	54	-17.45	74	-37.45
6	24.44	39.56	Pk	33.9	-24.4	-9.5	39.56	54	-14.44	74	-34.44

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of emission (MHz)	Conducted limit (dBμV)	
	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.

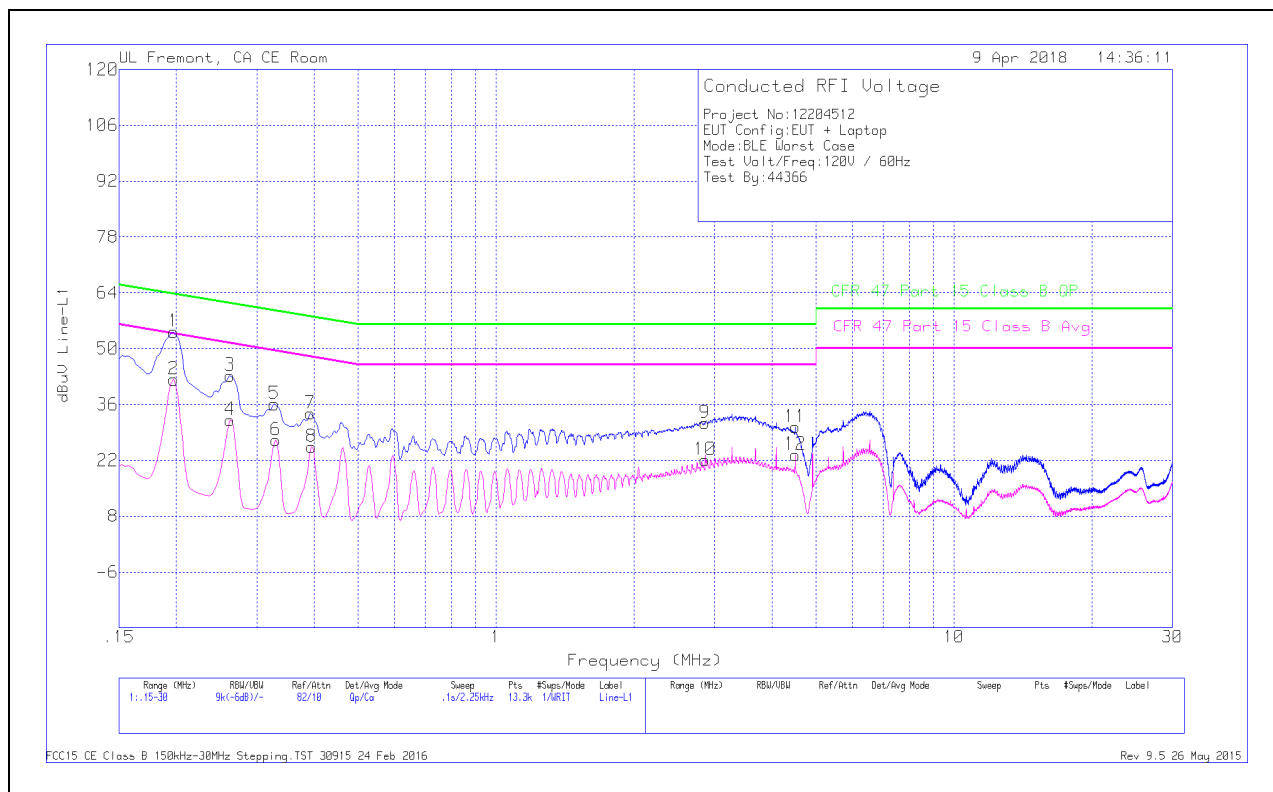
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1.1. AC Power Line Host

LINE 1 RESULTS

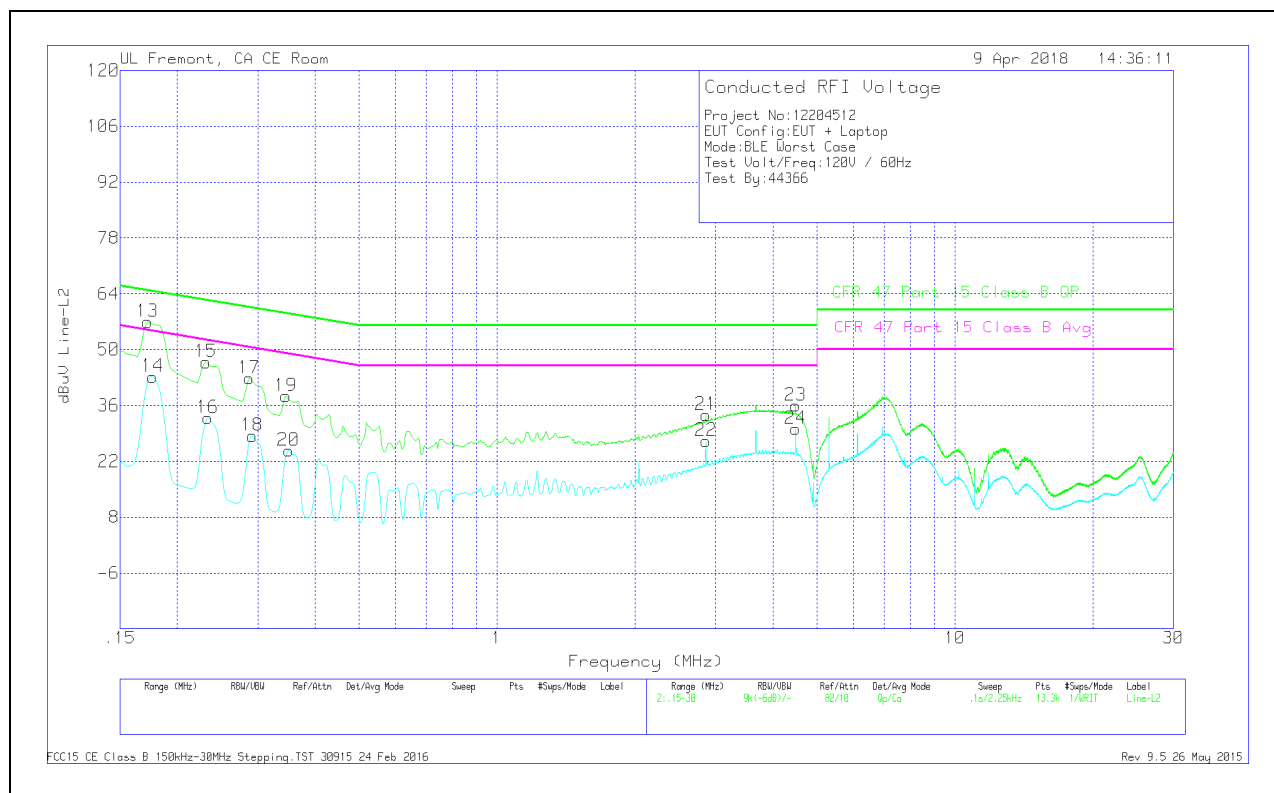


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.19725	44.11	Qp	0	0	10.1	54.21	63.73	-9.52	-	-
2	.19725	32.16	Ca	0	0	10.1	42.26	-	-	53.73	-11.47
3	.2625	33.11	Qp	0	0	10.1	43.21	61.35	-18.14	-	-
4	.2625	21.99	Ca	0	0	10.1	32.09	-	-	51.35	-19.26
5	.32775	26	Qp	0	0	10.1	36.1	59.51	-23.41	-	-
6	.33	16.94	Ca	0	0	10.1	27.04	-	-	49.45	-22.41
7	.393	23.67	Qp	0	0	10.1	33.77	58	-24.23	-	-
8	.39525	15.27	Ca	0	0	10.1	25.37	-	-	47.95	-22.58
9	2.86125	21.17	Qp	0	.1	10.1	31.37	56	-24.63	-	-
10	2.86125	11.93	Ca	0	.1	10.1	22.13	-	-	46	-23.87
11	4.5015	20.13	Qp	0	.1	10.1	30.33	56	-25.67	-	-
12	4.5015	13.19	Ca	0	.1	10.1	23.39	-	-	46	-22.61

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



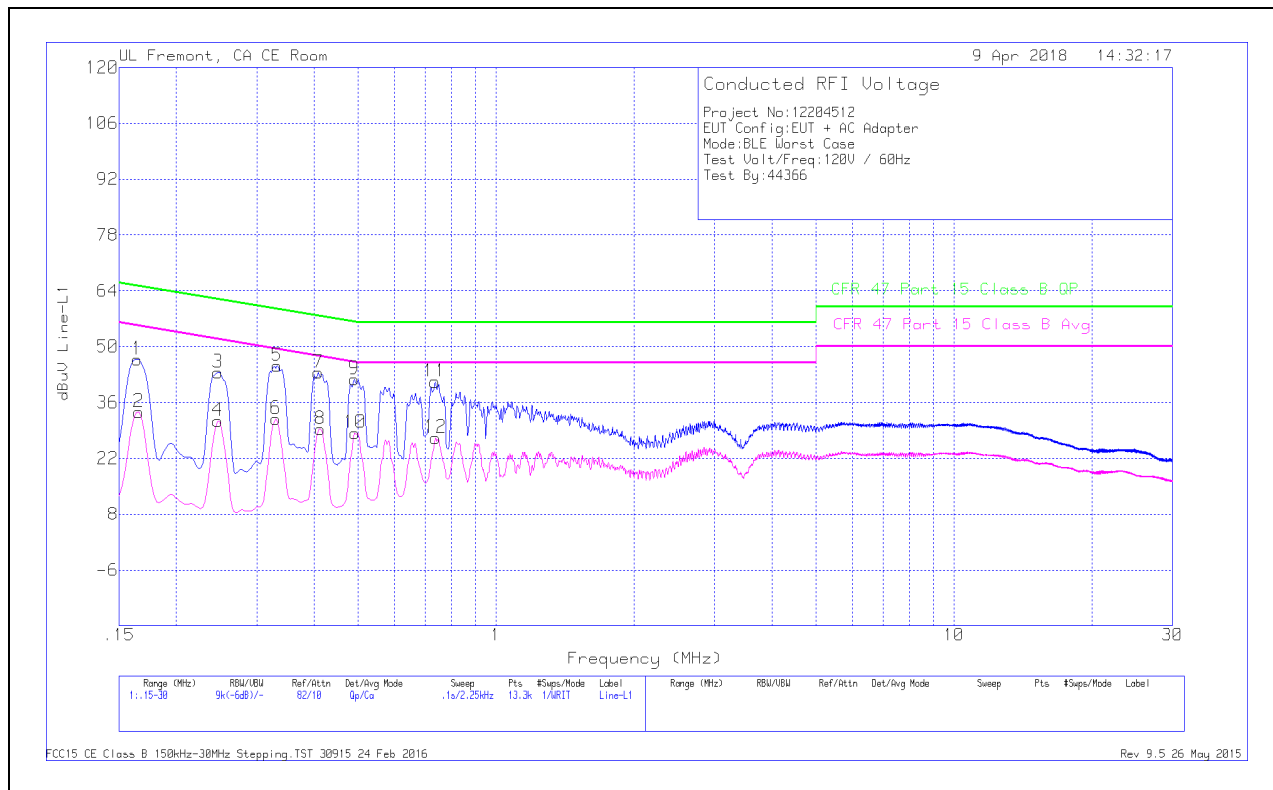
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.1725	46.86	Qp	0	0	10.1	56.96	64.84	-7.88	-	-
14	.177	33.12	Ca	0	0	10.1	43.22	-	-	54.63	-11.41
15	.231	36.76	Qp	0	0	10.1	46.86	62.41	-15.55	-	-
16	.23325	22.79	Ca	0	0	10.1	32.89	-	-	52.33	-19.44
17	.28725	32.71	Qp	0	0	10.1	42.81	60.6	-17.79	-	-
18	.29175	18.28	Ca	0	0	10.1	28.38	-	-	50.47	-22.09
19	.34575	28.23	Qp	0	0	10.1	38.33	59.06	-20.73	-	-
20	.35025	14.55	Ca	0	0	10.1	24.65	-	-	48.96	-24.31
21	2.85675	23.43	Qp	0	.1	10.1	33.63	56	-22.37	-	-
22	2.85675	16.91	Ca	0	.1	10.1	27.11	-	-	46	-18.89
23	4.49025	25.78	Qp	0	.1	10.1	35.98	56	-20.02	-	-
24	4.49025	19.98	Ca	0	.1	10.1	30.18	-	-	46	-15.82

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.1.2. AC Power Line Norm

LINE 1 RESULTS

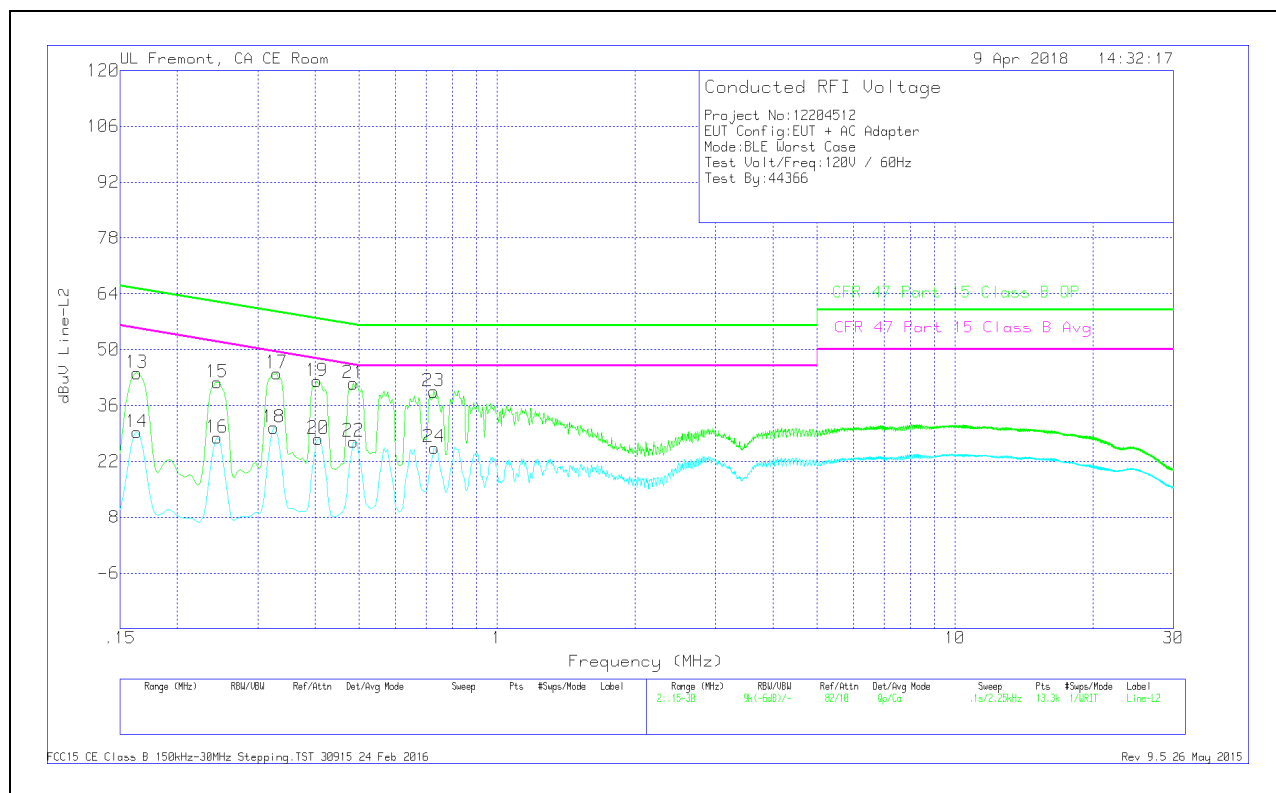


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.16463	36.63	Qp	.1	0	10.1	46.83	65.23	-18.4	-	-
2	.16575	23.42	Ca	.1	0	10.1	33.62	-	-	55.17	-21.55
3	.24675	33.44	Qp	0	0	10.1	43.54	61.87	-18.33	-	-
4	.24675	21.33	Ca	0	0	10.1	31.43	-	-	51.87	-20.44
5	.33225	35.08	Qp	0	0	10.1	45.18	59.39	-14.21	-	-
6	.33	21.82	Ca	0	0	10.1	31.92	-	-	49.45	-17.53
7	.40875	33.41	Qp	0	0	10.1	43.51	57.67	-14.16	-	-
8	.41325	19.23	Ca	0	0	10.1	29.33	-	-	47.58	-18.25
9	.48975	31.77	Qp	0	0	10.1	41.87	56.17	-14.3	-	-
10	.492	18.27	Ca	0	0	10.1	28.37	-	-	46.13	-17.76
11	.735	31.11	Qp	0	0	10.1	41.21	56	-14.79	-	-
12	.73725	17.06	Ca	0	0	10.1	27.16	-	-	46	-18.84

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
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	.1635	34.04	Qp	0	0	10.1	44.14	65.28	-21.14	-	-
14	.1635	19.17	Ca	0	0	10.1	29.27	-	-	55.28	-26.01
15	.2445	31.67	Qp	0	0	10.1	41.77	61.94	-20.17	-	-
16	.2445	17.86	Ca	0	0	10.1	27.96	-	-	51.94	-23.98
17	.33	33.97	Qp	0	0	10.1	44.07	59.45	-15.38	-	-
18	.3255	20.36	Ca	0	0	10.1	30.46	-	-	49.57	-19.11
19	.40425	32.02	Qp	0	0	10.1	42.12	57.77	-15.65	-	-
20	.4065	17.52	Ca	0	0	10.1	27.62	-	-	47.72	-20.1
21	.48525	31.47	Qp	0	0	10.1	41.57	56.25	-14.68	-	-
22	.48525	16.89	Ca	0	0	10.1	26.99	-	-	46.25	-19.26
23	.726	29.42	Qp	0	0	10.1	39.52	56	-16.48	-	-
24	.72825	15.36	Ca	0	0	10.1	25.46	-	-	46	-20.54

Qp - Quasi-Peak detector

Ca - CISPR average detection

FCC15 CE Class B 150kHz-30MHz Stepping TST 30915 24 Feb 2016

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END OF REPORT

11. SETUP PHOTOS

Please refer to 12124122-EP1V1 for setup photos