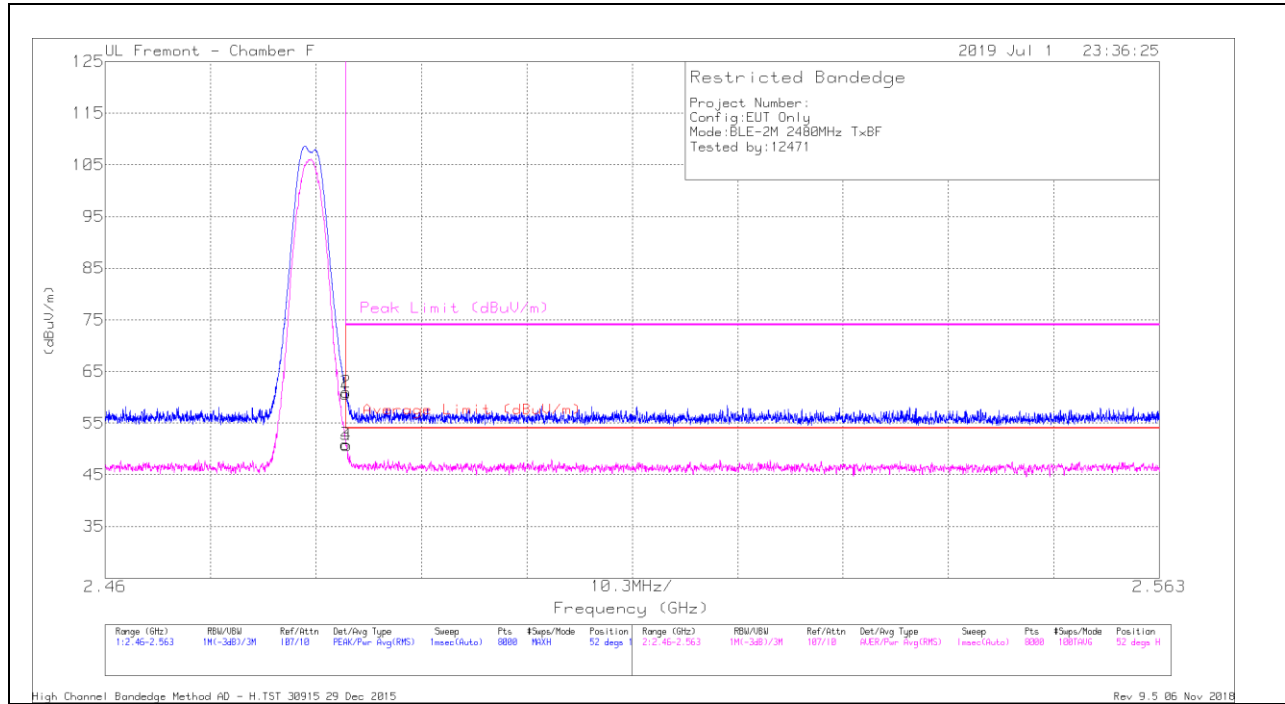


BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	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	42.93	Pk	32.4	-14.7	60.63	-	-	74	-13.37	52	139	H
2	* 2.484	43.32	Pk	32.4	-14.7	61.02	-	-	74	-12.98	52	139	H
3	* 2.484	33.20	RMS	32.4	-14.7	50.90	54	-3.10	-	-	52	139	H
4	* 2.484	33.02	RMS	32.4	-14.7	50.72	54	-3.28	-	-	52	139	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 29 Dec 2015

Rev 9.5 06 Nov 2018

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.88	Pk	32.4	-14.7	57.58	-	-	74	-16.42	102	319	V
2	* 2.486	40.75	Pk	32.4	-14.6	58.55	-	-	74	-15.45	102	319	V
3	* 2.484	28.92	RMS	32.4	-14.7	46.62	54	-7.38	-	-	102	319	V
4	2.523	30.24	RMS	32.3	-14.5	48.04	54	-5.96	-	-	102	319	V

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

Pk - Peak detector

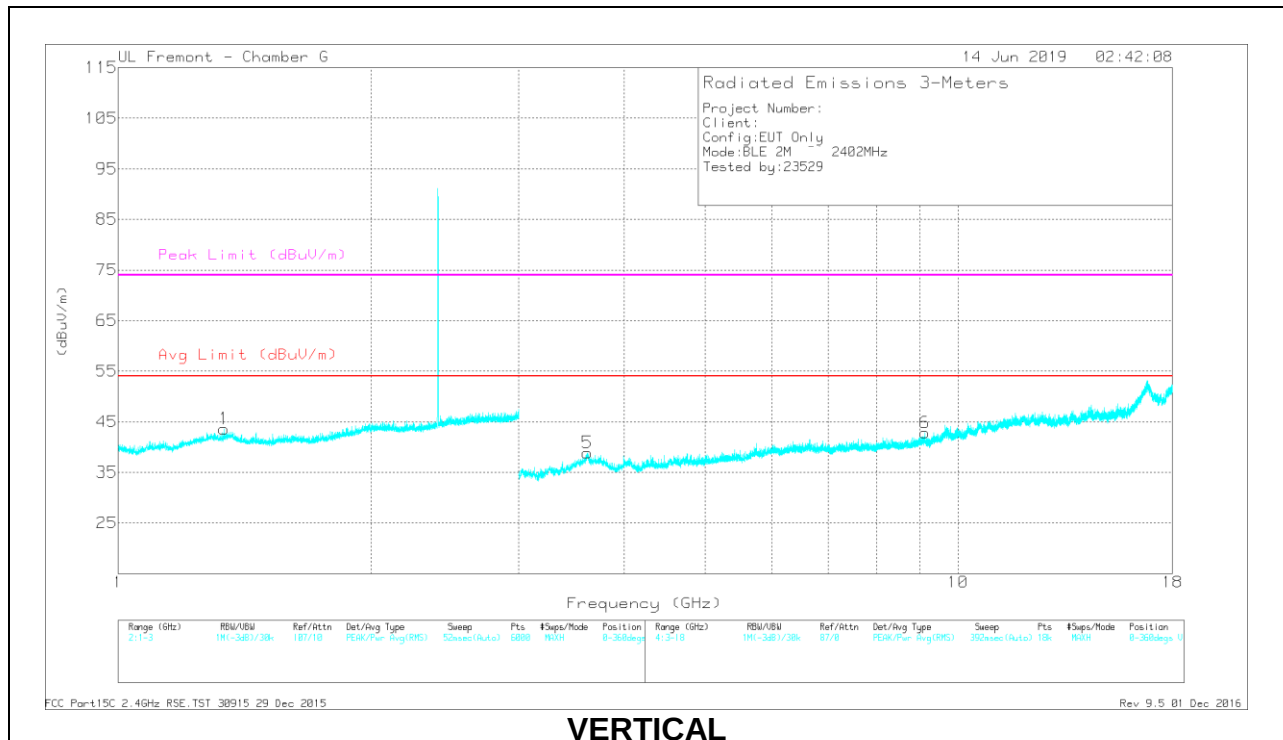
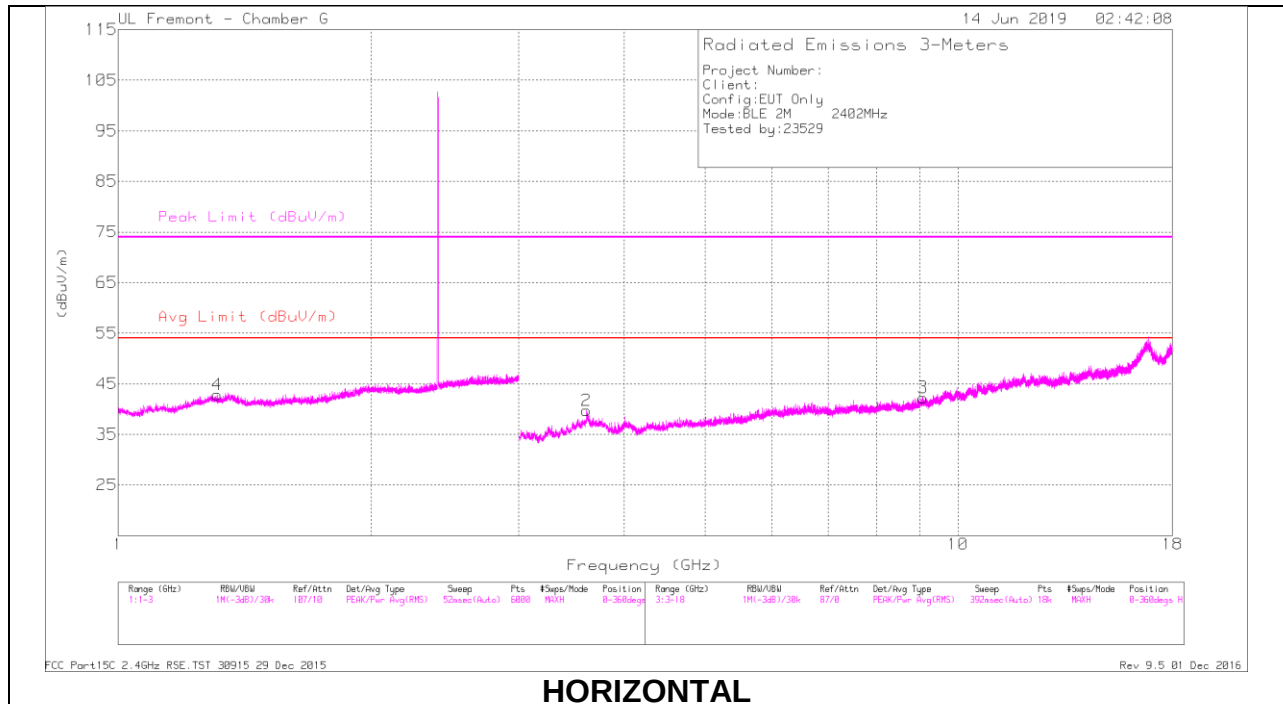
RMS - RMS detection

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

Rev 9.5 06 Nov 2018

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.311	43.51	PK2	29.8	-23.5	49.81	-	-	74	-24.19	0	101	H
	* 1.313	31.99	MAV1	29.7	-23.5	38.19	54	-15.81	-	-	0	101	H
1	* 1.334	44.25	PK2	29.7	-23.3	50.65	-	-	74	-23.35	104	101	V
	* 1.337	32.10	MAV1	29.8	-23.3	38.60	54	-15.40	-	-	104	101	V
2	* 3.608	40.85	PK2	35.1	-30.3	45.65	-	-	74	-28.35	210	183	H
	* 3.615	29.60	MAV1	35.6	-30.1	35.10	54	-18.9	-	-	210	183	H
3	* 9.09	37.87	PK2	36.5	-25.4	48.97	-	-	74	-25.03	197	183	H
	* 9.087	26.71	MAV1	36.5	-25.3	37.91	54	-16.09	-	-	197	183	H
5	* 3.621	40.72	PK2	35.7	-30.0	46.42	-	-	74	-27.58	256	100	V
	* 3.620	29.21	MAV1	35.7	-30.0	34.91	54	-19.09	-	-	256	100	V
6	* 9.127	38.19	PK2	36.5	-25.6	49.09	-	-	74	-24.91	187	100	V
	* 9.126	27.01	MAV1	36.5	-25.6	37.91	54	-16.09	-	-	187	100	V

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

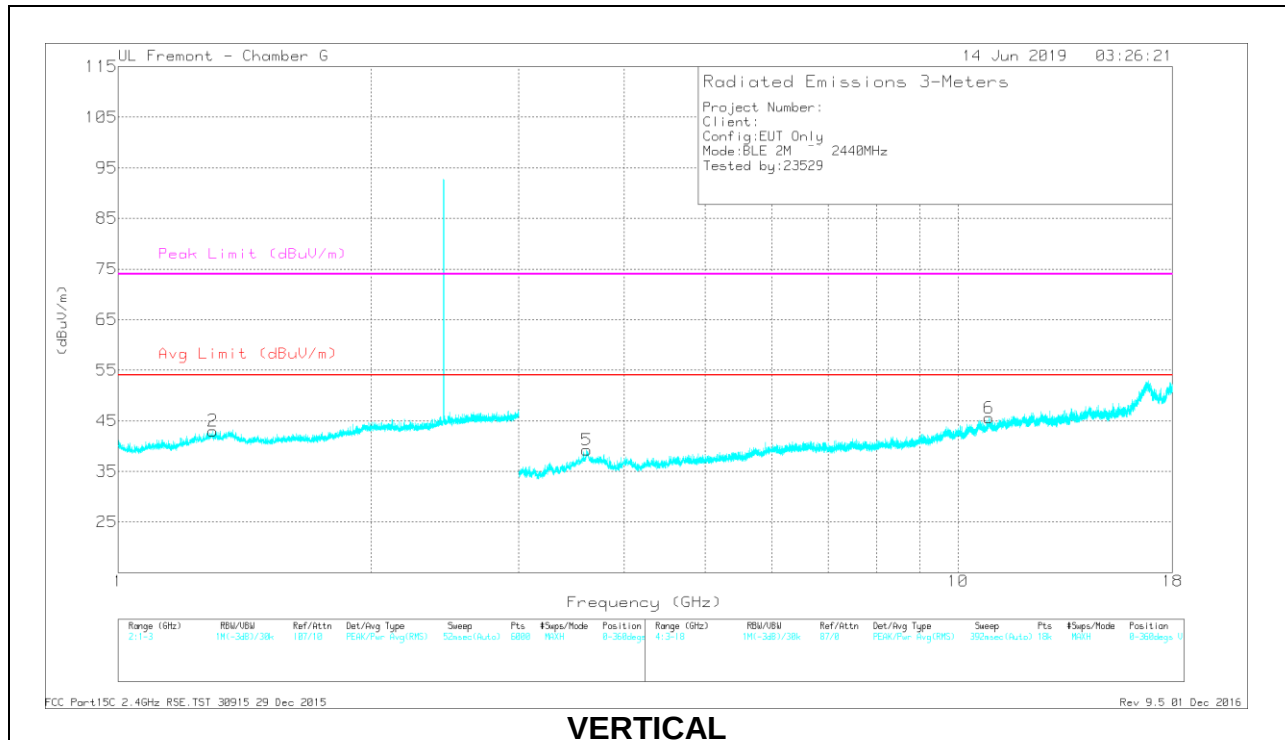
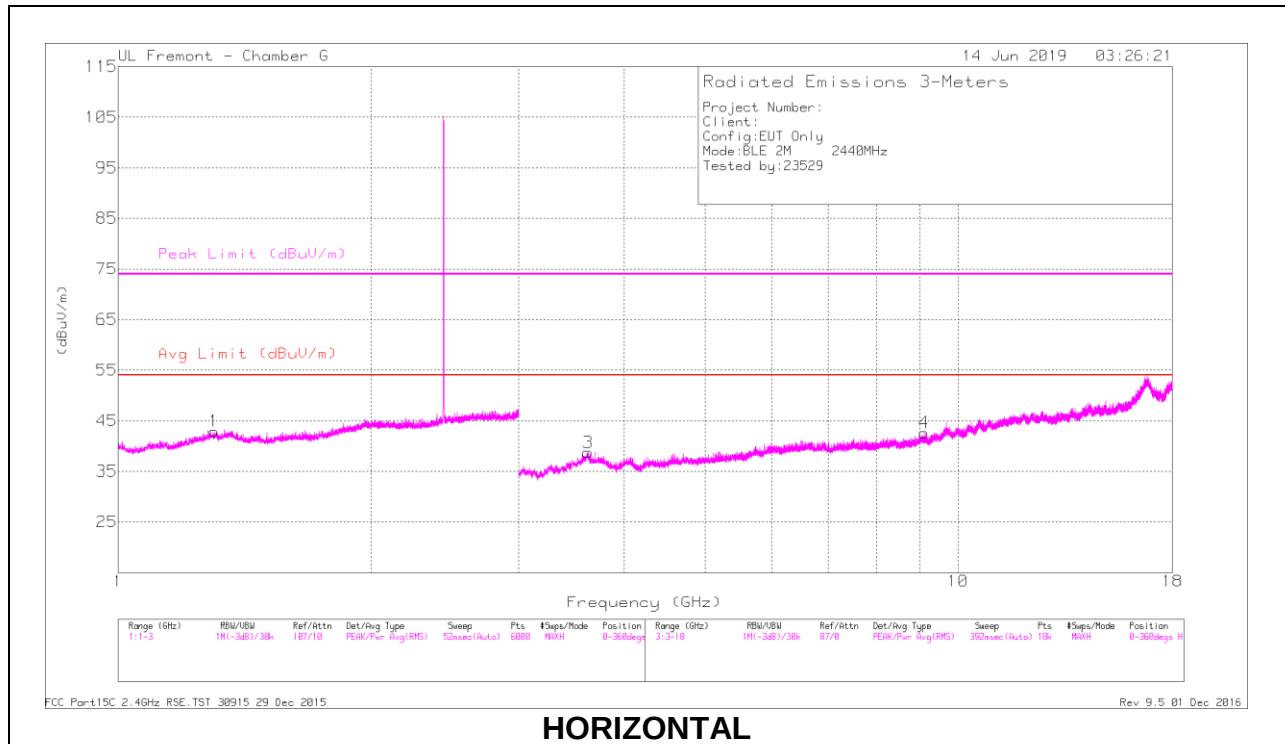
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.301	44.04	PK2	29.6	-23.5	50.14	-	-	74	-23.86	360	101	H
	* 1.301	32.02	MAV1	29.6	-23.5	38.12	54	-15.88	-	-	360	101	H
2	* 1.298	43.77	PK2	29.7	-23.5	49.97	-	-	74	-24.03	171	114	V
	* 1.297	32.01	MAV1	29.8	-23.5	38.31	54	-15.69	-	-	171	114	V
3	* 3.627	40.63	PK2	35.3	-29.8	46.13	-	-	74	-27.87	290	199	H
	* 3.628	29.16	MAV1	35.2	-29.7	34.66	54	-19.34	-	-	290	199	H
4	* 9.113	37.91	PK2	36.5	-25.6	48.81	-	-	74	-25.19	290	199	H
	* 9.112	26.95	MAV1	36.5	-25.6	37.85	54	-16.15	-	-	290	199	H
5	* 3.612	40.92	PK2	35.3	-30.2	46.02	-	-	74	-27.98	290	199	V
	* 3.613	29.72	MAV1	35.4	-30.2	34.92	54	-19.08	-	-	290	199	V
6	* 10.889	36.53	PK2	38.3	-22.9	51.93	-	-	74	-22.07	290	199	V
	* 10.889	25.69	MAV1	38.3	-22.9	41.09	54	-12.91	-	-	290	199	V

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

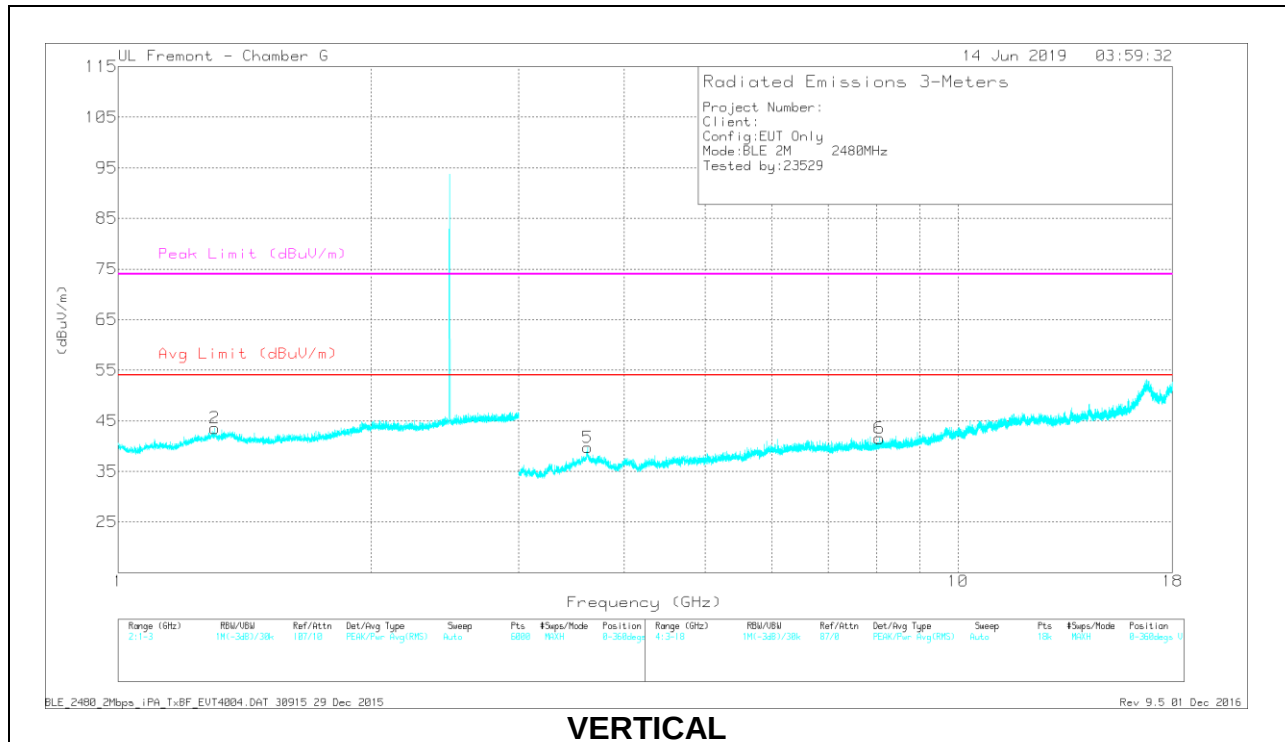
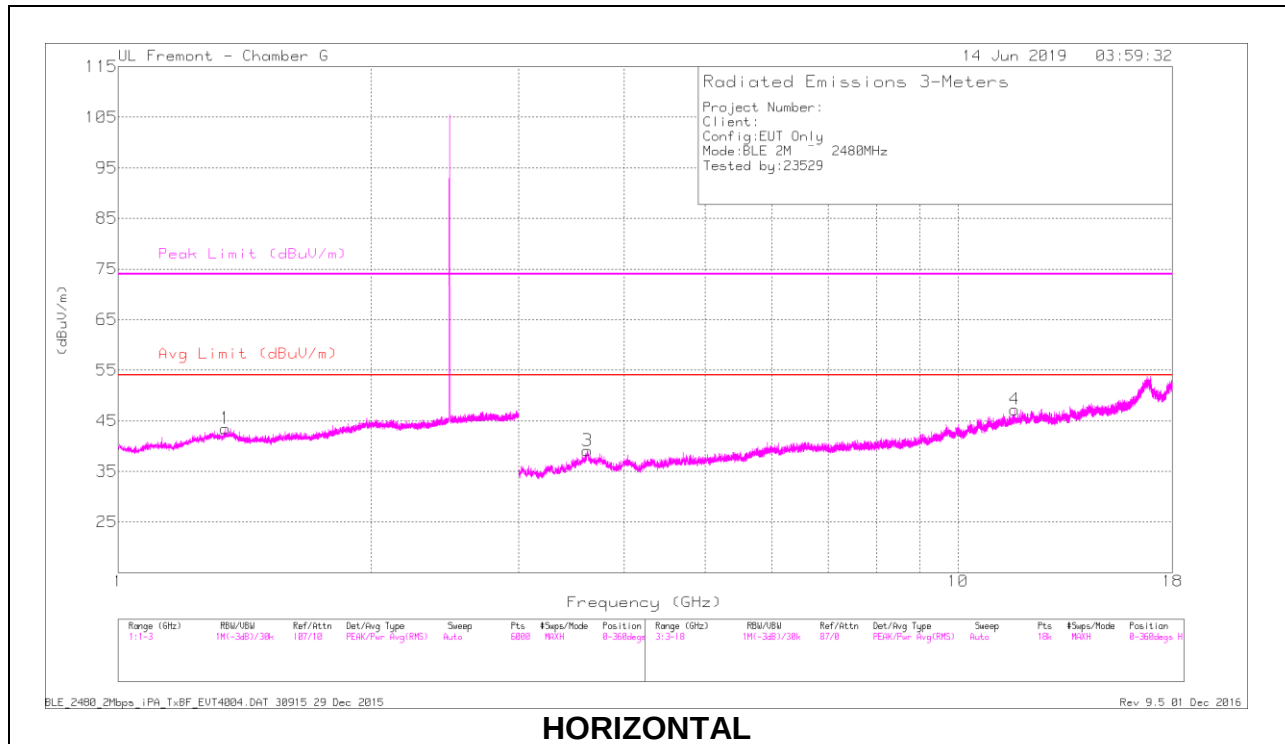
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.343	44.15	PK2	29.8	-23.3	50.65	-	-	74	-23.35	190	275	H
	* 1.34	32.38	MAV1	29.9	-23.3	38.98	54	-15.02	-	-	190	275	H
2	* 1.303	43.62	PK2	29.7	-23.5	49.82	-	-	74	-24.18	61	207	V
	* 1.301	32.30	MAV1	29.6	-23.5	38.40	54	-15.60	-	-	61	207	V
3	* 3.621	39.84	PK2	35.7	-30.0	45.54	-	-	74	-28.46	93	188	H
	* 3.621	29.17	MAV1	35.7	-30.0	34.87	54	-19.13	-	-	93	188	H
4	* 11.678	36.57	PK2	39.2	-22.8	52.97	-	-	74	-21.03	165	118	H
	* 11.679	24.72	MAV1	39.2	-22.8	41.12	54	-12.88	-	-	165	118	H
6	* 8.062	38.72	PK2	36.1	-27.0	47.82	-	-	74	-26.18	0	101	V
	* 8.064	27.68	MAV1	36.1	-27.0	36.78	54	-17.22	-	-	0	101	V
5	* 3.623	40.13	PK2	35.6	-29.9	45.83	-	-	74	-28.17	184	139	V
	* 3.621	29.13	MAV1	35.7	-30.0	34.83	54	-19.17	-	-	184	139	V

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

PK2 - KDB558074 Method: Maximum Peak

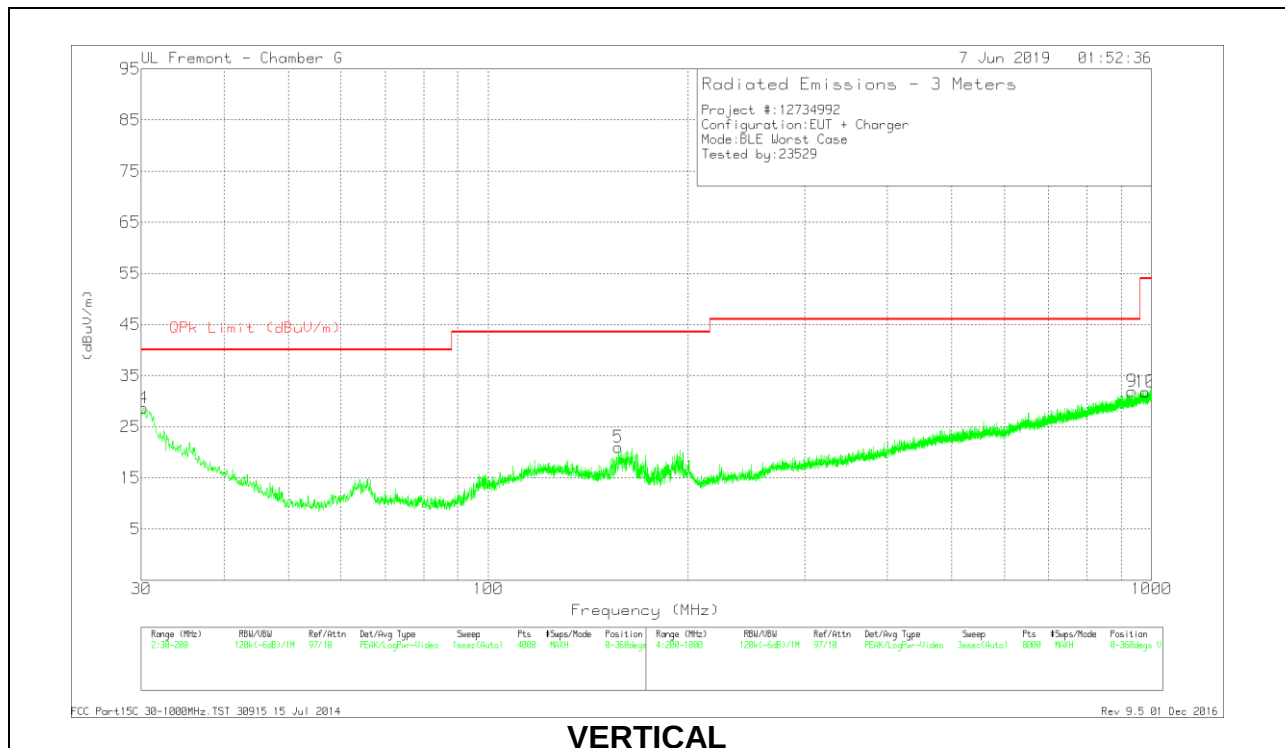
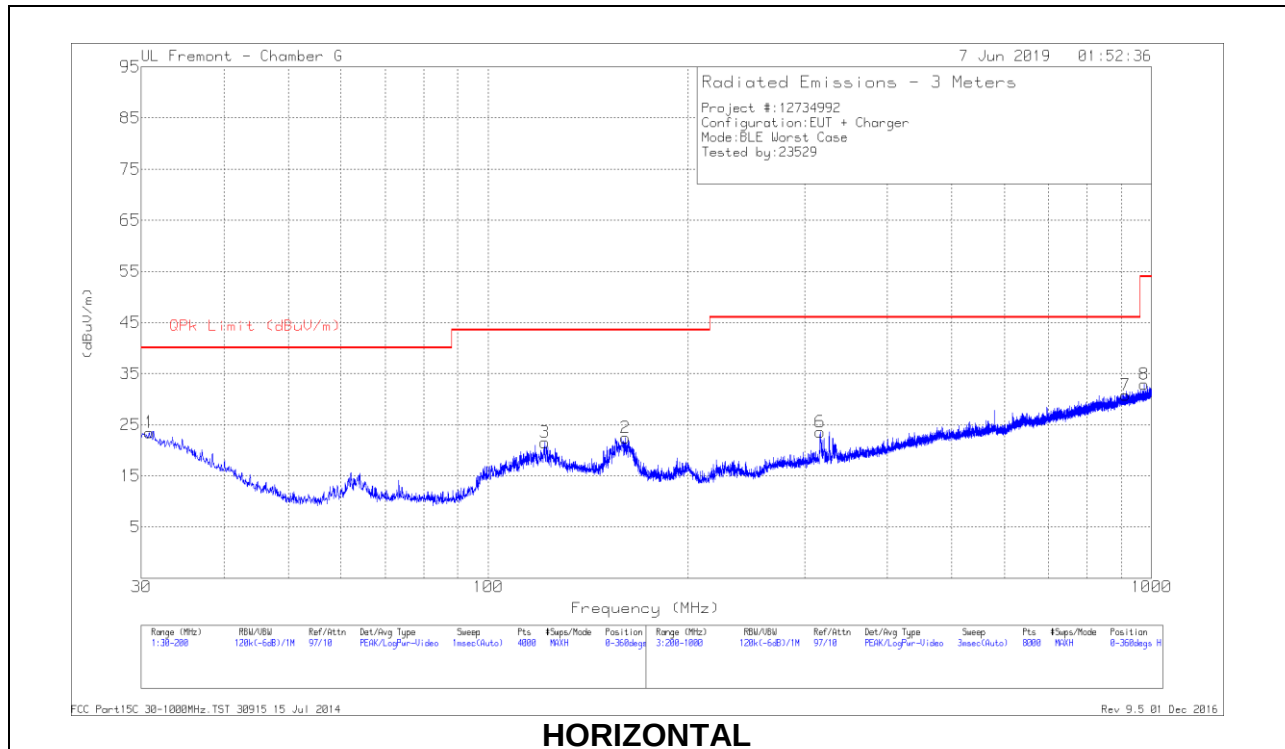
MAV1 - KDB558074 Option 1 Maximum RMS Average

BLE_2480_2Mbps_iPA_TxBF_EVT4004.DAT 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

9.3 WORST CASE BELOW 1 GHZ

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

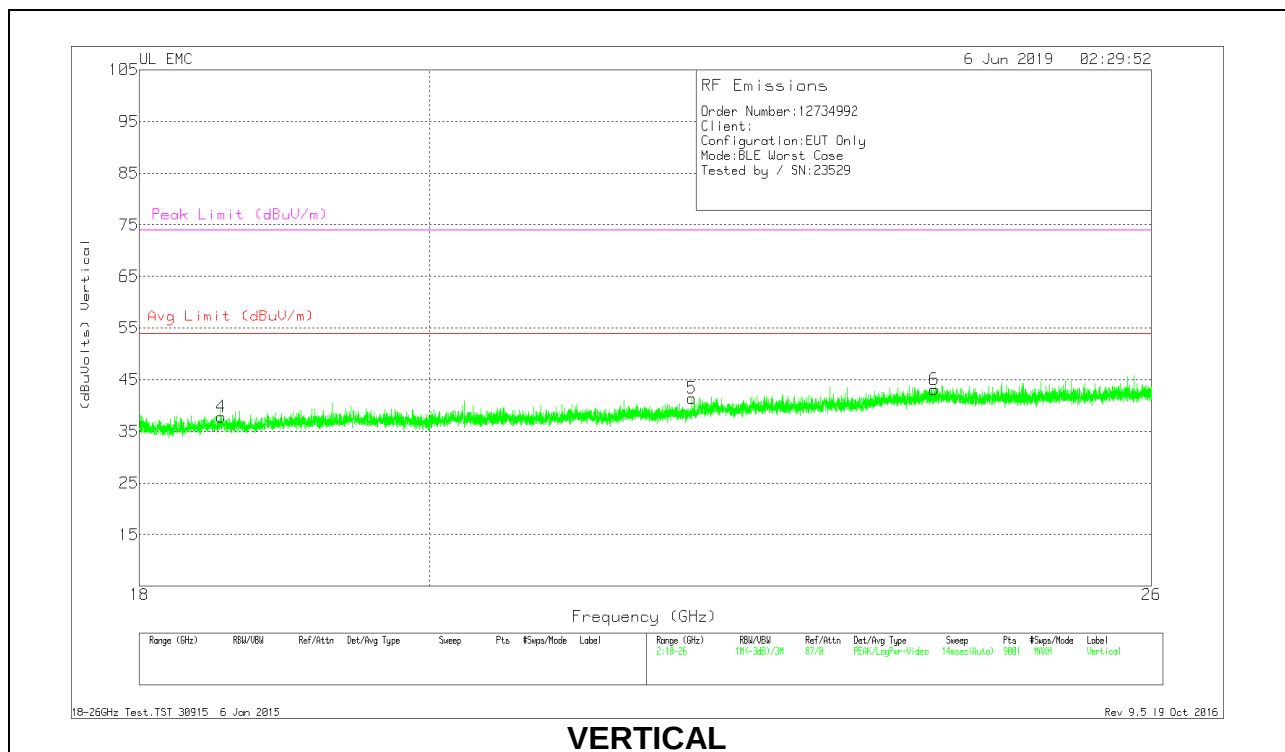
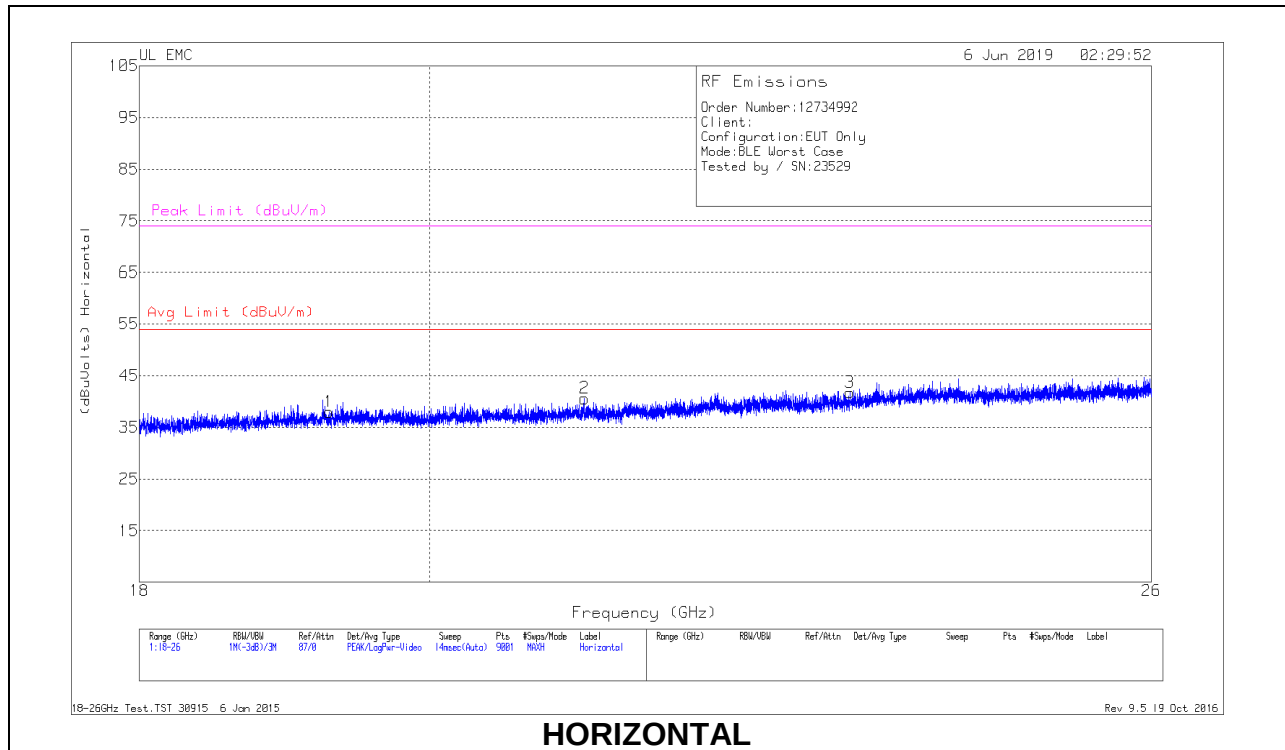


Below 1GHz Data

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
3	* 121.6962	32.05	Pk	19.7	-30.2	21.55	43.52	-21.97	0-360	200	H
8	* 975.4008	29.21	Pk	28.9	-25.2	32.91	53.97	-21.06	0-360	299	H
10	* 979.1013	28.04	Pk	29.0	-25.2	31.84	53.97	-22.13	0-360	100	V
4	30.2551	33.36	Pk	26.5	-31.2	28.66	40.00	-11.34	0-360	100	V
1	30.8502	28.26	Pk	26.4	-31.2	23.46	40.00	-16.54	0-360	200	H
5	157.0654	32.89	Pk	18.1	-30.0	20.99	43.52	-22.53	0-360	100	V
2	161.0614	34.25	Pk	18.0	-29.8	22.45	43.52	-21.07	0-360	200	H
6	316.6152	32.68	Pk	19.7	-28.8	23.58	46.02	-22.44	0-360	100	H
7	914.5929	28.38	Pk	28.3	-25.9	30.78	46.02	-15.24	0-360	200	H
9	934.3955	29.14	Pk	28.5	-25.7	31.94	46.02	-14.08	0-360	100	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	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	19.283	36.19	Pk	32.7	-21.4	-9.5	37.99	54	-16.01	74	-36.01
2	21.158	38.18	Pk	33	-21.1	-9.5	40.58	54	-13.42	74	-33.42
3	23.301	37.73	Pk	33.8	-20.3	-9.5	41.73	54	-12.27	74	-32.27
4	18.544	36.68	Pk	32.4	-21.8	-9.5	37.78	54	-16.22	74	-36.22
5	22.002	38.20	Pk	33.3	-20.6	-9.5	41.40	54	-12.60	74	-32.60
6	24.025	37.89	Pk	34.3	-19.6	-9.5	43.09	54	-10.91	74	-30.91

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

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.

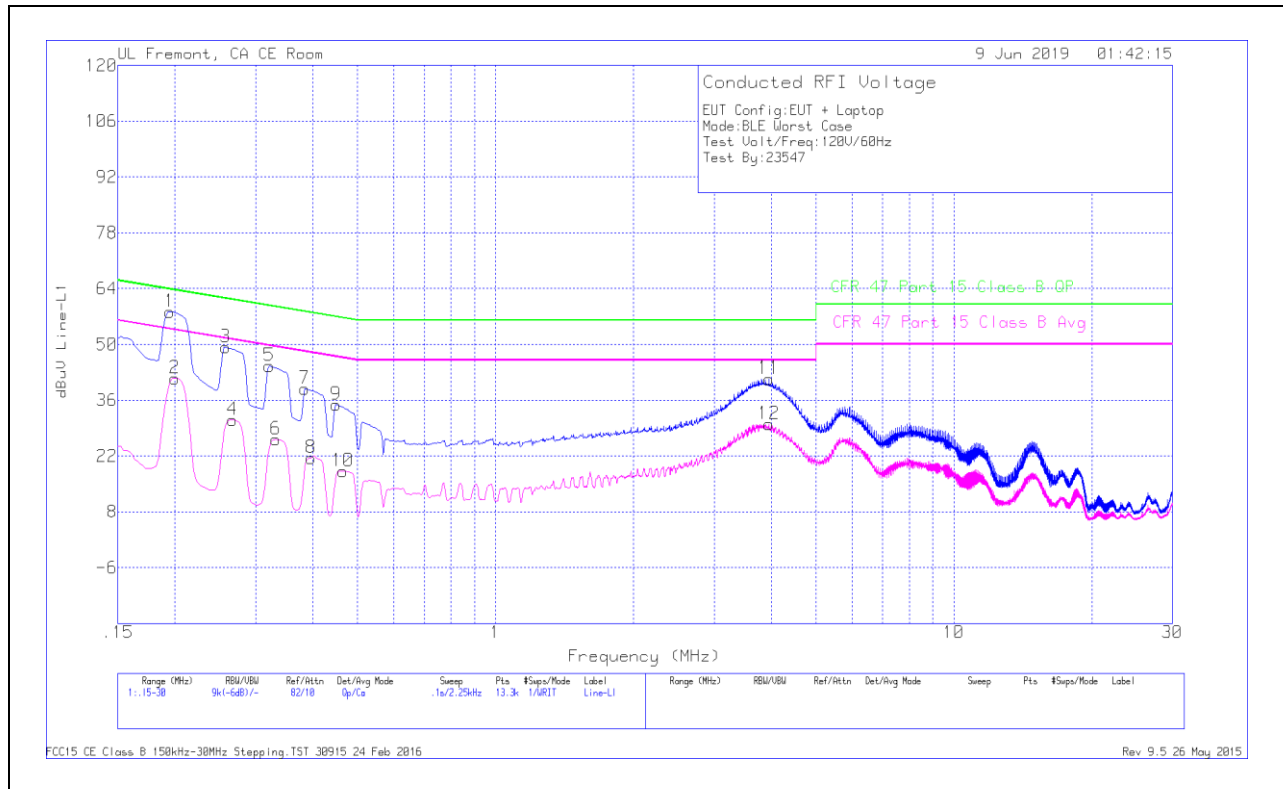
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1. AC Power Line Host

LINE 1 RESULTS



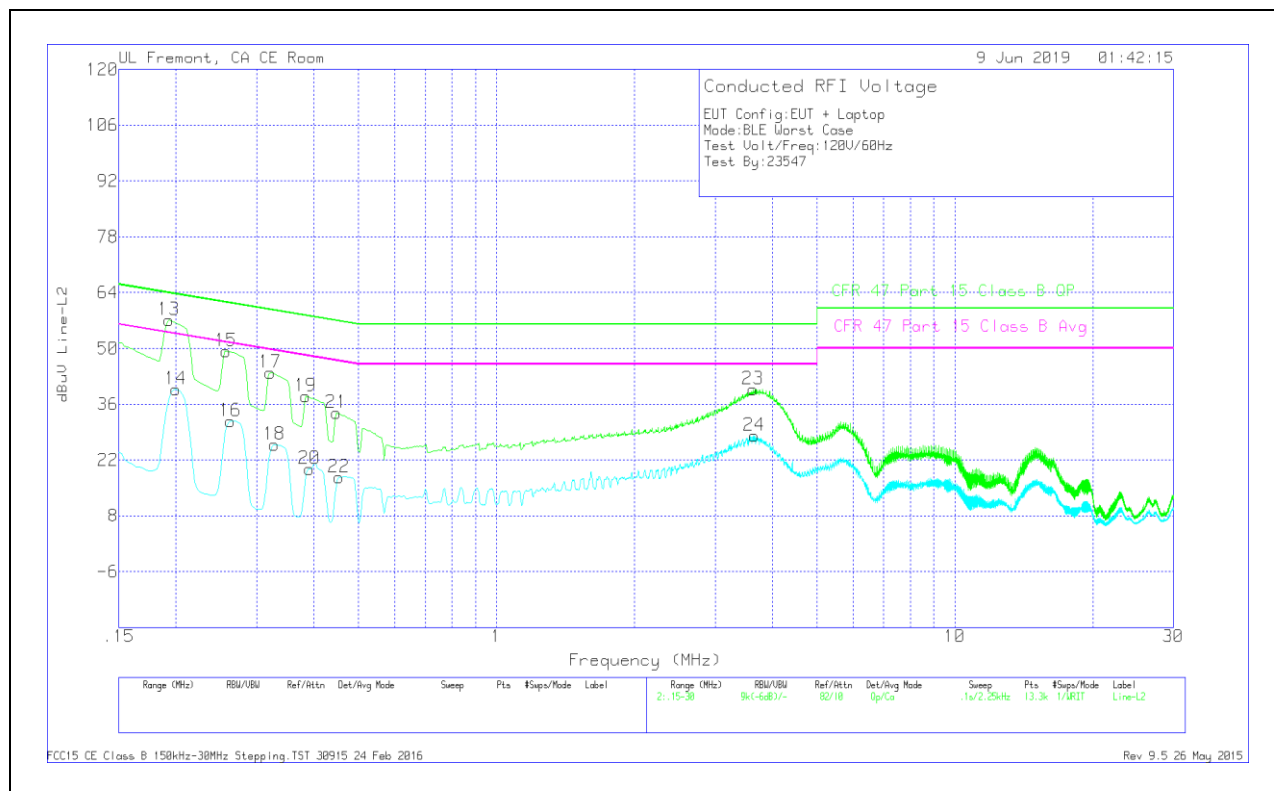
Range 1: Line-L1 .15 - 30MHz

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	.195	48.1	Qp	0	0	10.1	58.2	63.82	-5.62	-	-
2	.1995	31.46	Ca	0	0	10.1	41.56	-	-	53.63	-12.07
3	.258	39.22	Qp	0	0	10.1	49.32	61.5	-12.18	-	-
4	.267	21.03	Ca	0	0	10.1	31.13	-	-	51.21	-20.08
5	.321	34.44	Qp	0	0	10.1	44.54	59.68	-15.14	-	-
6	.33225	16.01	Ca	0	0	10.1	26.11	-	-	49.39	-23.28
7	.384	28.8	Qp	0	0	10.1	38.9	58.19	-19.29	-	-
8	.39525	11.39	Ca	0	0	10.1	21.49	-	-	47.95	-26.46
9	.44925	24.85	Qp	0	0	10.1	34.95	56.89	-21.94	-	-
10	.465	8.14	Ca	0	0	10.1	18.24	-	-	46.6	-28.36
11	3.95025	31.19	Qp	0	.1	10.1	41.39	56	-14.61	-	-
12	3.95025	19.81	Ca	0	.1	10.1	30.01	-	-	46	-15.99

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

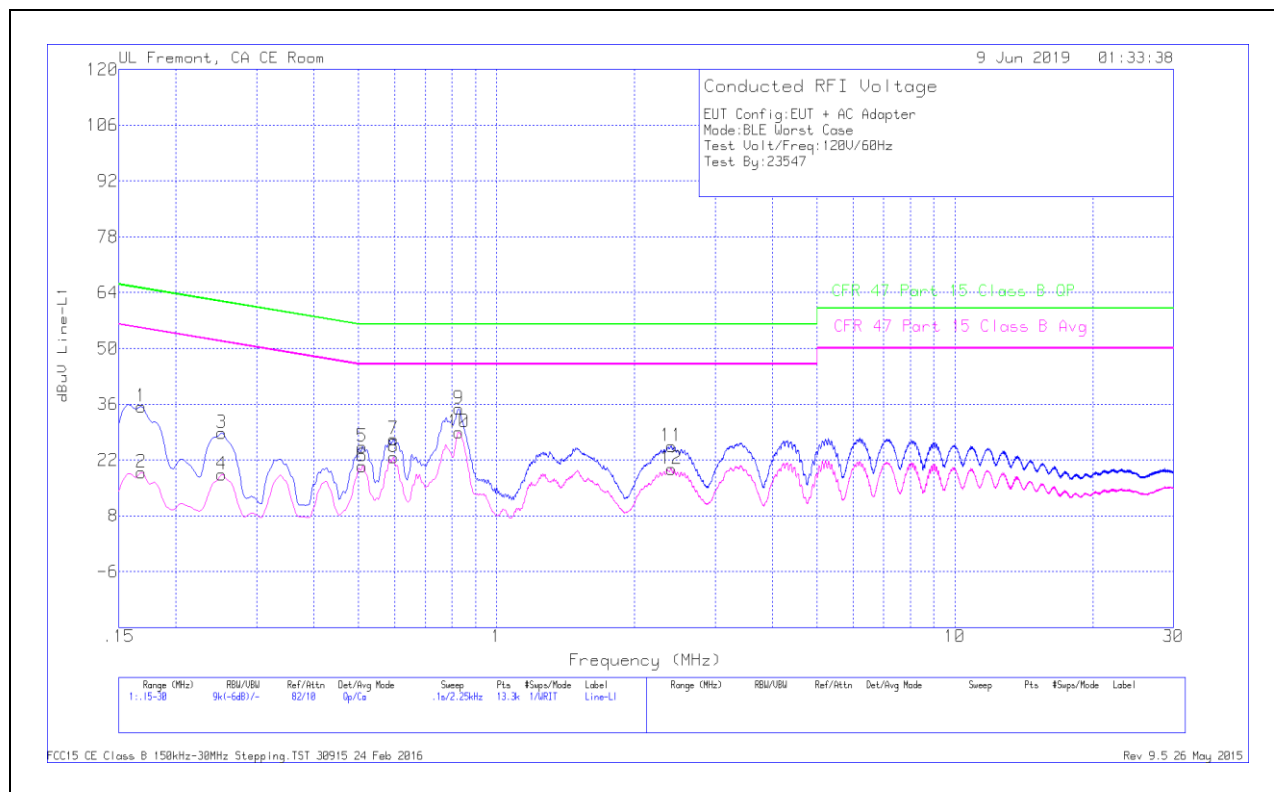
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.19275	47.05	Qp	0	0	10.1	57.15	63.92	-6.77	-	-
14	.1995	29.59	Ca	0	0	10.1	39.69	-	-	53.63	-13.94
15	.25688	39.23	Qp	0	0	10.1	49.33	61.53	-12.2	-	-
16	.2625	21.6	Ca	0	0	10.1	31.7	-	-	51.35	-19.65
17	.321	33.89	Qp	0	0	10.1	43.99	59.68	-15.69	-	-
18	.32775	15.72	Ca	0	0	10.1	25.82	-	-	49.51	-23.69
19	.384	27.87	Qp	0	0	10.1	37.97	58.19	-20.22	-	-
20	.39075	9.7	Ca	0	0	10.1	19.8	-	-	48.05	-28.25
21	.447	23.7	Qp	0	0	10.1	33.8	56.93	-23.13	-	-
22	.45375	7.62	Ca	0	0	10.1	17.72	-	-	46.81	-29.09
23	3.62625	29.6	Qp	0	.1	10.1	39.8	56	-16.2	-	-
24	3.64875	17.93	Ca	0	.1	10.1	28.13	-	-	46	-17.87

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.2. AC Power Line Norm

LINE 1 RESULTS



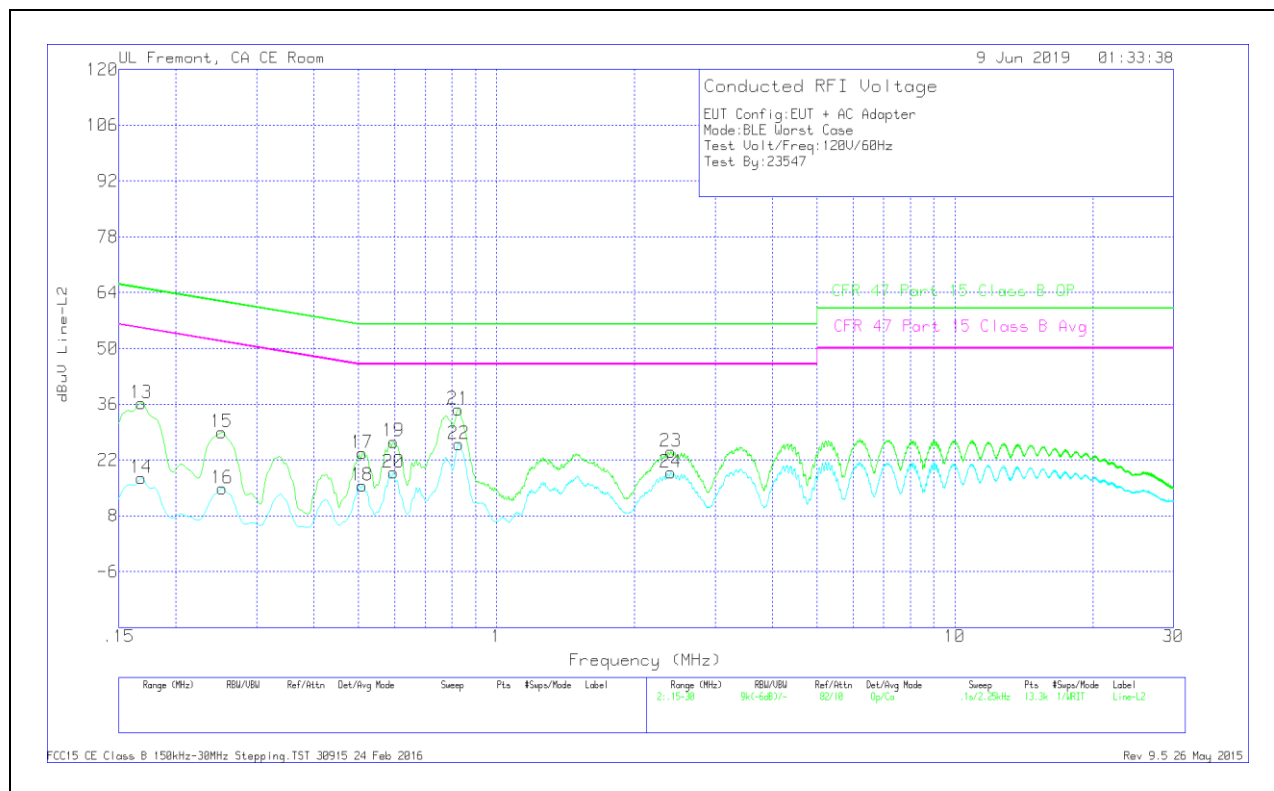
Range 1: Line-L1 .15 - 30MHz

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	.168	25.24	Qp	.1	0	10.1	35.44	65.06	-29.62	-	-
2	.168	8.72	Ca	.1	0	10.1	18.92	-	-	55.06	-36.14
3	.25125	18.65	Qp	0	0	10.1	28.75	61.72	-32.97	-	-
4	.25125	8.29	Ca	0	0	10.1	18.39	-	-	51.72	-33.33
5	.51	15.25	Qp	0	0	10.1	25.35	56	-30.65	-	-
6	.51	10.34	Ca	0	0	10.1	20.44	-	-	46	-25.56
7	.5955	17.06	Qp	0	0	10.1	27.16	56	-28.84	-	-
8	.5955	12.65	Ca	0	0	10.1	22.75	-	-	46	-23.25
9	.82725	24.77	Qp	0	0	10.1	34.87	56	-21.13	-	-
10	.82725	18.92	Ca	0	0	10.1	29.02	-	-	46	-16.98
11	2.40563	15.29	Qp	0	.1	10.1	25.49	56	-30.51	-	-
12	2.40675	9.56	Ca	0	.1	10.1	19.76	-	-	46	-26.24

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	.168	26.08	Qp	.1	0	10.1	36.28	65.06	-28.78	-	-
14	.168	7.3	Ca	.1	0	10.1	17.5	-	-	55.06	-37.56
15	.25125	18.94	Qp	0	0	10.1	29.04	61.72	-32.68	-	-
16	.25238	4.86	Ca	0	0	10.1	14.96	-	-	51.68	-36.72
17	.51	13.61	Qp	0	0	10.1	23.71	56	-32.29	-	-
18	.51	5.52	Ca	0	0	10.1	15.62	-	-	46	-30.38
19	.5955	16.52	Qp	0	0	10.1	26.62	56	-29.38	-	-
20	.5955	8.82	Ca	0	0	10.1	18.92	-	-	46	-27.08
21	.825	24.68	Qp	0	0	10.1	34.78	56	-21.22	-	-
22	.82725	15.85	Ca	0	0	10.1	25.95	-	-	46	-20.05
23	2.4045	13.88	Qp	0	.1	10.1	24.08	56	-31.92	-	-
24	2.40225	8.71	Ca	0	.1	10.1	18.91	-	-	46	-27.09

Qp - Quasi-Peak detector

Ca - CISPR average detection

END OF TEST REPORT

11. SETUP PHOTOS

Please refer to 12943451-EP1V1 Setup Photos for setup photos