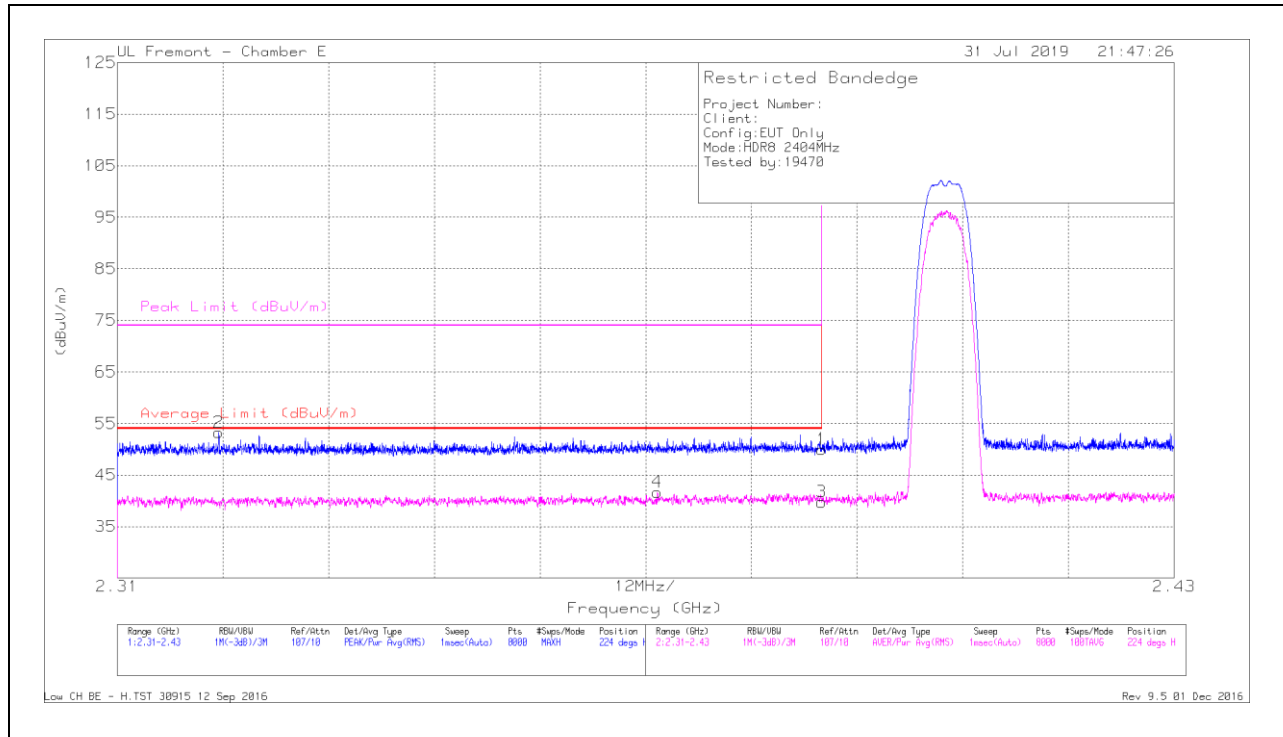


9.2.8. BEAMFORMING LOW POWER HDR (HDR8)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



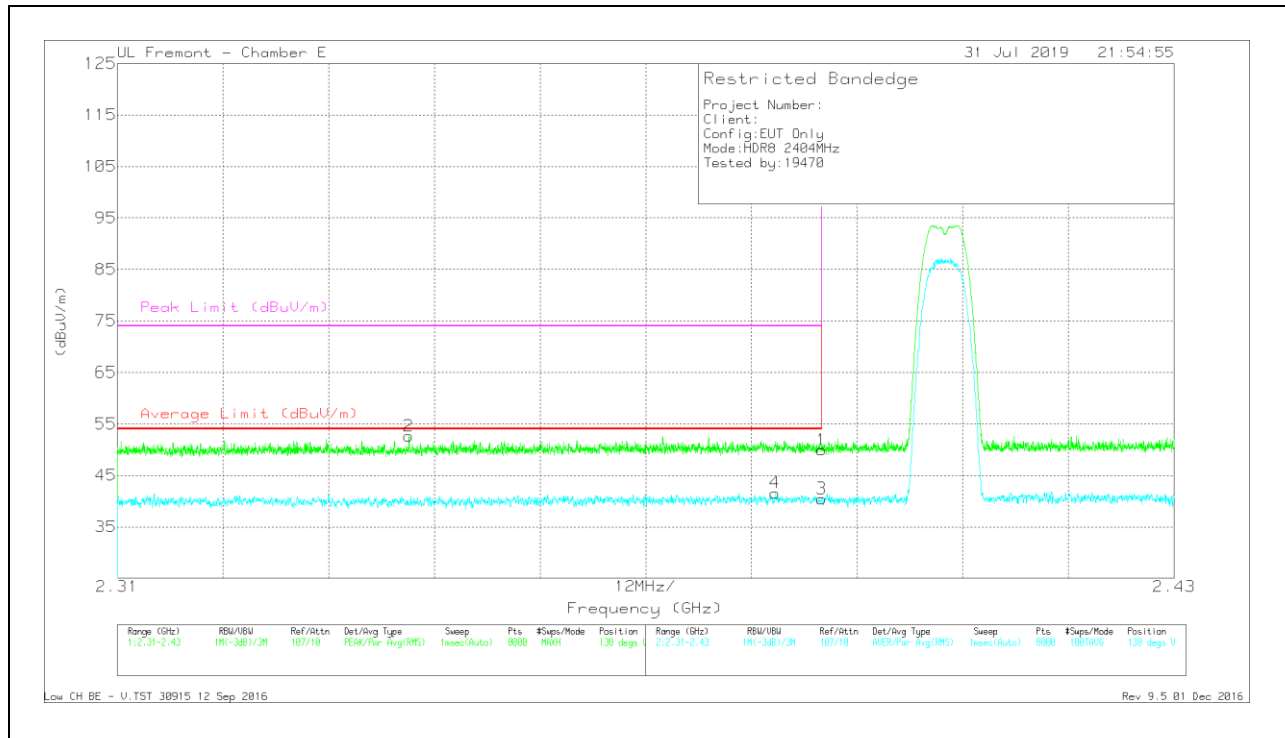
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.88	Pk	32.3	-26.2	49.98	-	-	74	-24.02	224	128	H
2	* 2.322	47.65	Pk	31.9	-26.3	53.25	-	-	74	-20.75	224	128	H
3	* 2.39	33.67	RMS	32.3	-26.2	39.77	54	-14.23	-	-	224	128	H
4	* 2.371	35.8	RMS	32.2	-26.3	41.7	54	-12.3	-	-	224	128	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	43.86	Pk	32.3	-26.2	49.96	-	-	74	-24.04	138	388	V
2	* 2.343	47.02	Pk	31.9	-26.3	52.62	-	-	74	-21.38	138	388	V
3	* 2.39	34.36	RMS	32.3	-26.2	40.46	54	-13.54	-	-	138	388	V
4	* 2.385	35.59	RMS	32.3	-26.3	41.59	54	-12.41	-	-	138	388	V

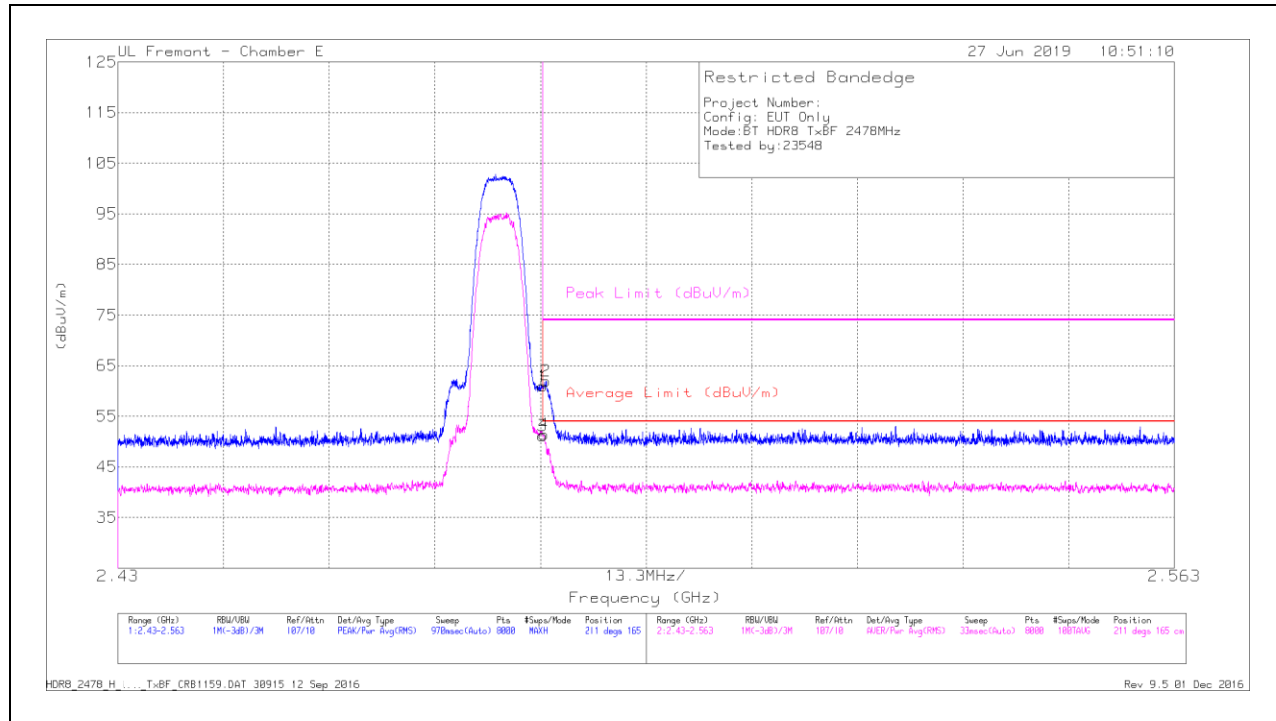
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



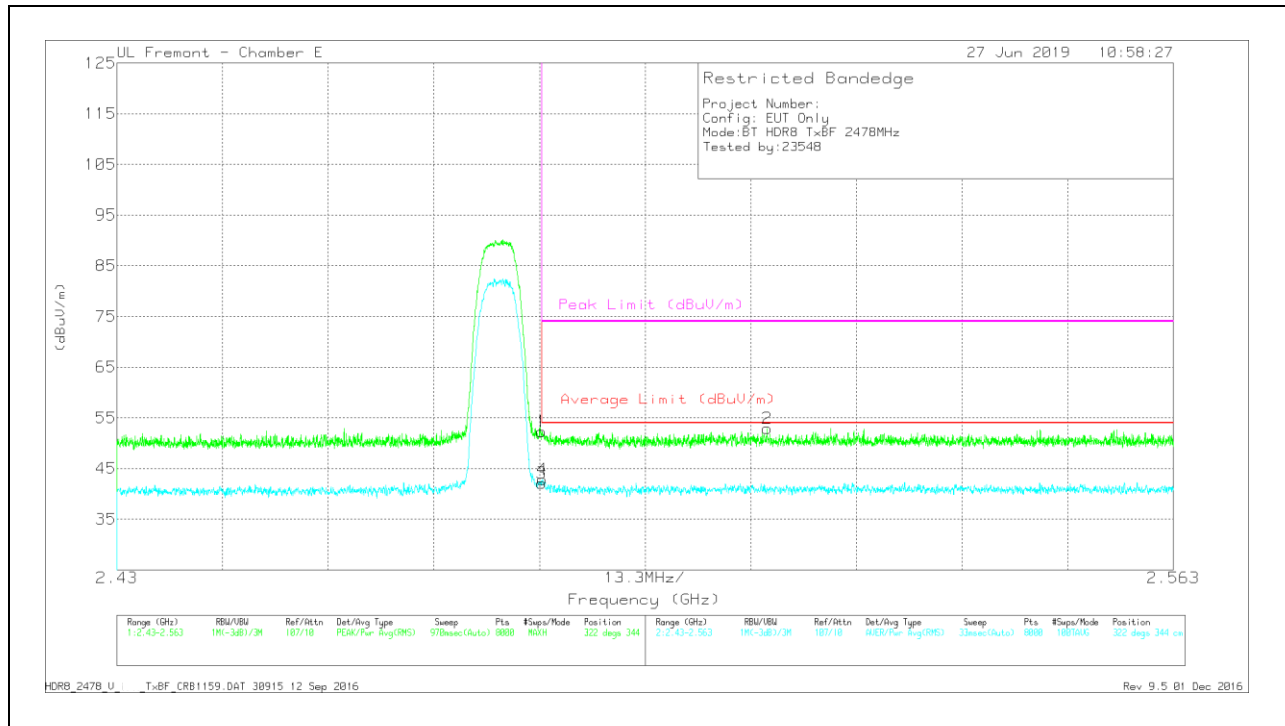
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	54.52	Pk	32.8	-26.3	61.02	-	-	74	-12.98	211	165	H
2	* 2.484	55.42	Pk	32.8	-26.3	61.92	-	-	74	-12.08	211	165	H
3	* 2.484	44.7	RMS	32.8	-26.3	51.2	54	-2.8	-	-	211	165	H
4	* 2.484	44.88	RMS	32.8	-26.3	51.38	54	-2.62	-	-	211	165	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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	45.78	Pk	32.8	-26.3	52.28	-	-	74	-21.72	322	344	V
3	* 2.484	35.61	RMS	32.8	-26.3	42.11	54	-11.89	-	-	322	344	V
4	* 2.484	36.39	RMS	32.8	-26.3	42.89	54	-11.11	-	-	322	344	V
2	2.512	46.25	Pk	32.9	-26.2	52.95	-	-	74	-21.05	322	344	V

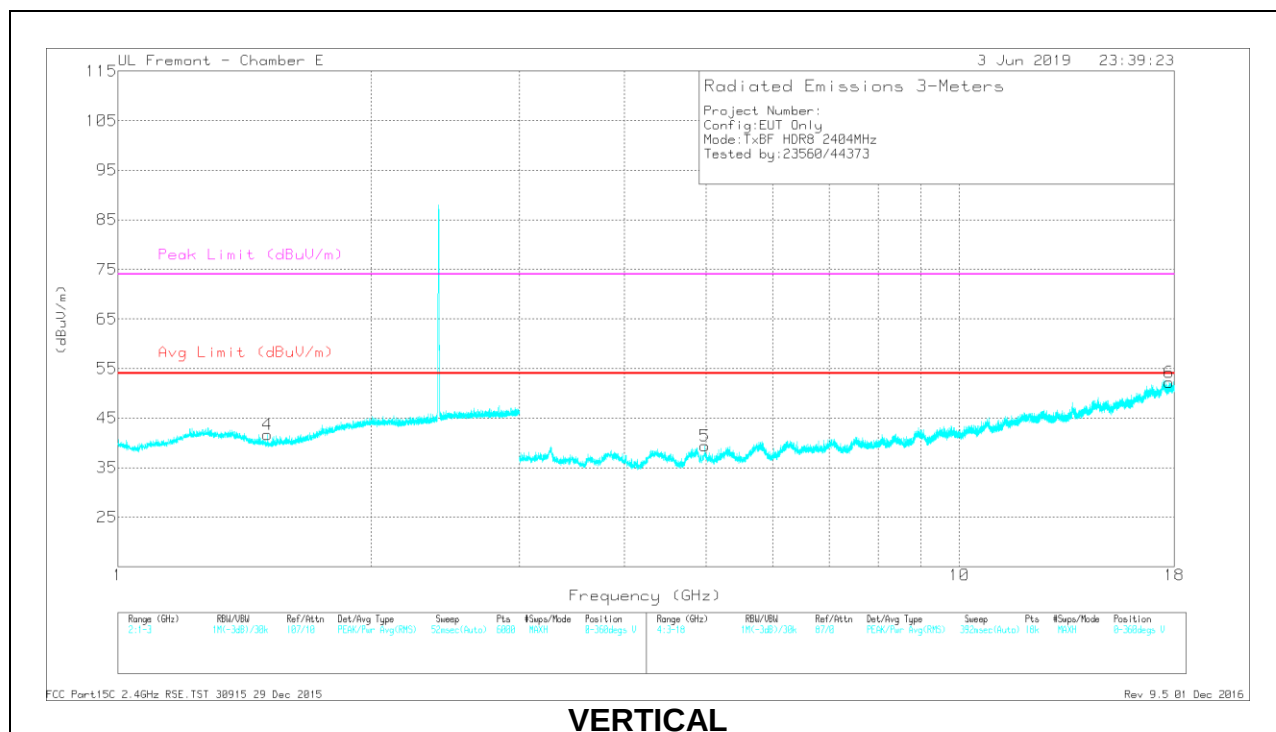
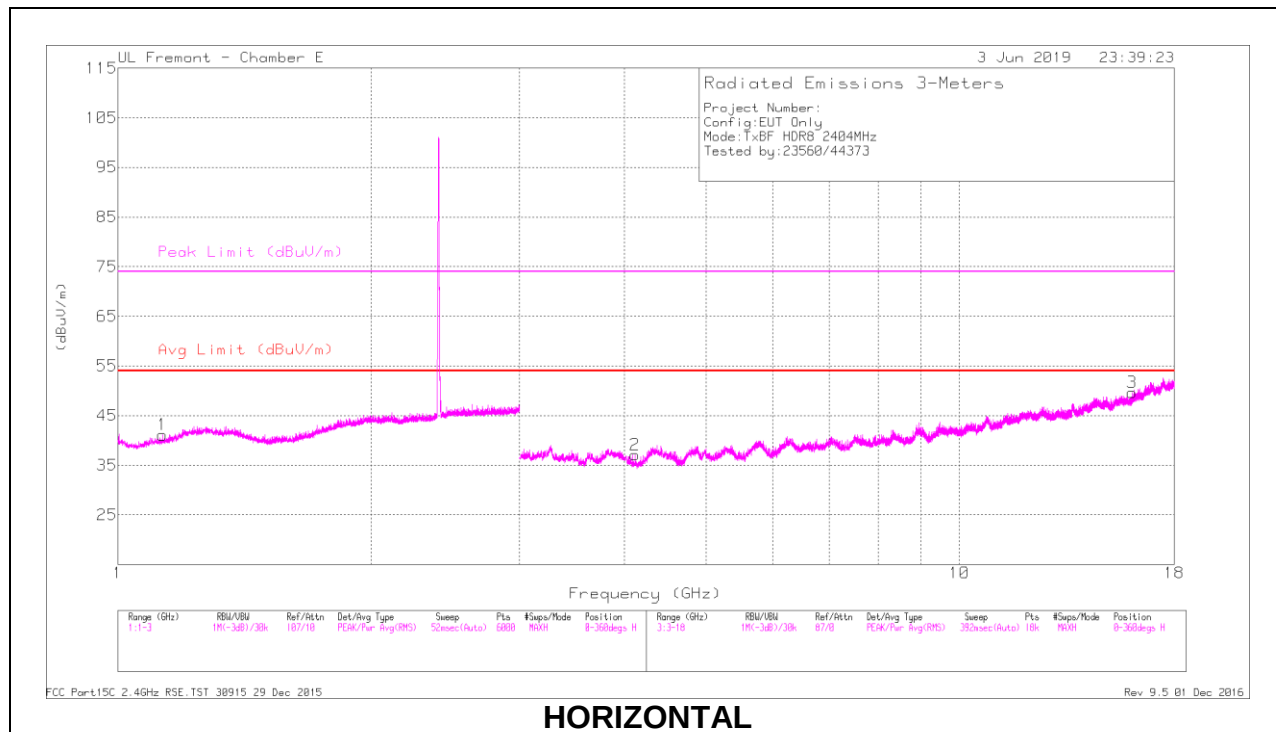
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

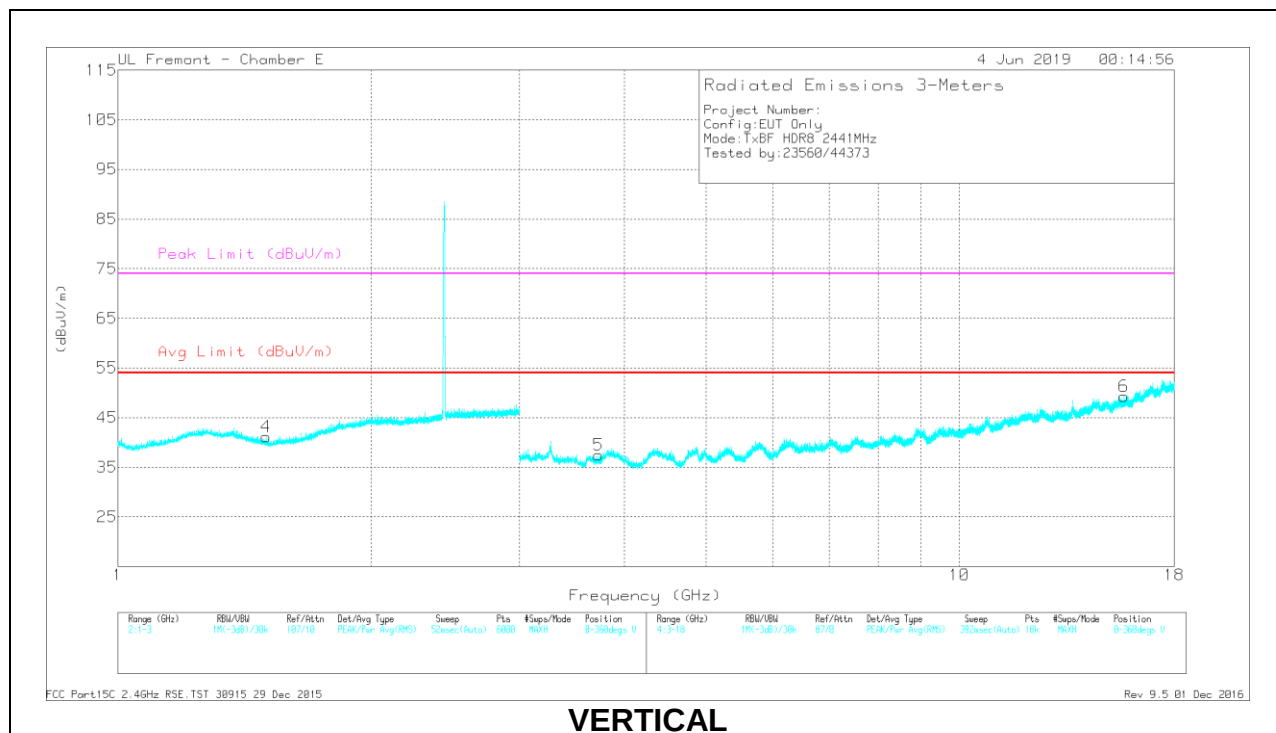
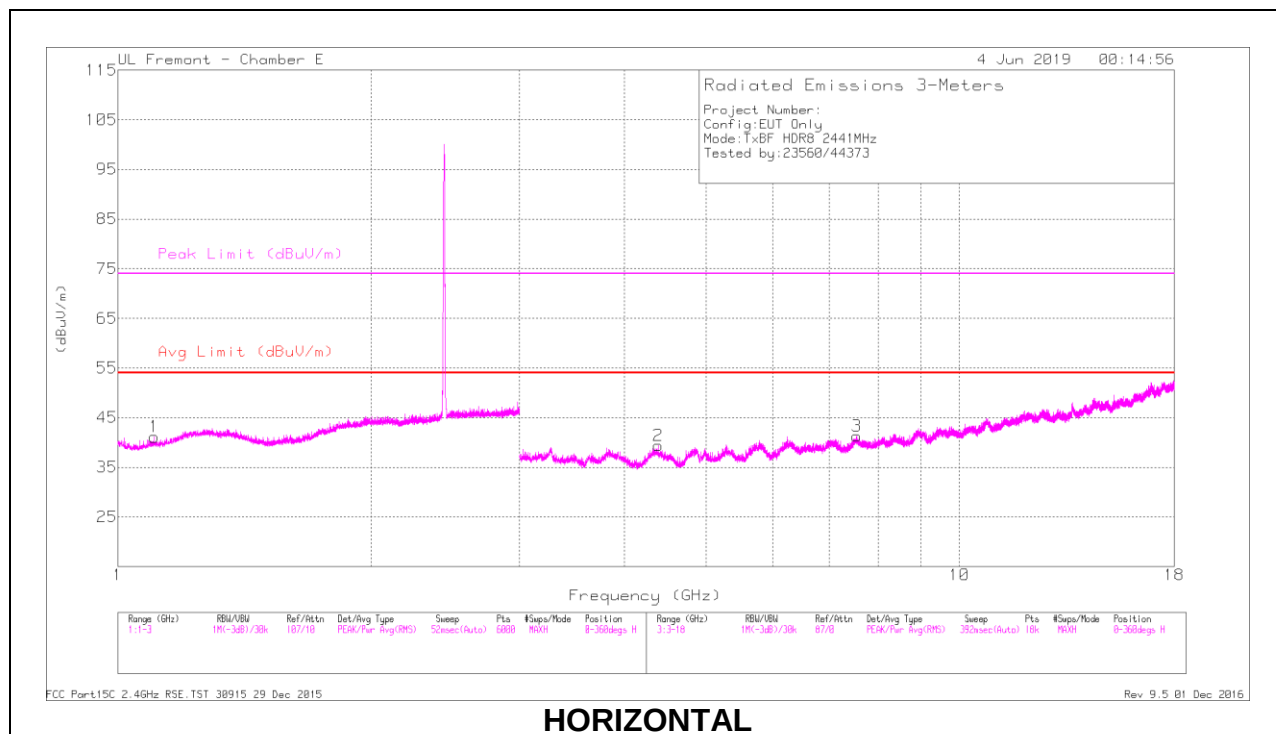
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.13	45.45	PK2	27.9	-25.9	47.45	-	-	74	-26.55	356	383	H
	* 1.129	34.04	MAv1	27.9	-25.9	36.04	54	-17.96	-	-	356	383	H
4	* 1.504	45.99	PK2	27.8	-26.3	47.49	-	-	74	-26.51	88	300	V
	* 1.505	34.39	MAv1	27.8	-26.3	35.89	54	-18.11	-	-	88	300	V
2	* 4.114	42.21	PK2	33.6	-32.3	43.51	-	-	74	-30.49	264	109	H
	* 4.116	30.83	MAv1	33.6	-32.3	32.13	54	-21.87	-	-	264	109	H
3	* 16.033	34.88	PK2	40.2	-19.6	55.48	-	-	74	-18.52	107	332	H
	* 16.031	24.36	MAv1	40.2	-19.6	44.96	54	-9.04	-	-	107	332	H
5	* 4.981	41.86	PK2	34.1	-30.3	45.66	-	-	74	-28.34	265	278	V
	* 4.981	31.02	MAv1	34.1	-30.3	34.82	54	-19.18	-	-	265	278	V
6	* 17.748	35.29	PK2	41.7	-18.4	58.59	-	-	74	-15.41	336	371	V
	* 17.749	24.64	MAv1	41.7	-18.4	47.94	54	-6.06	-	-	336	371	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

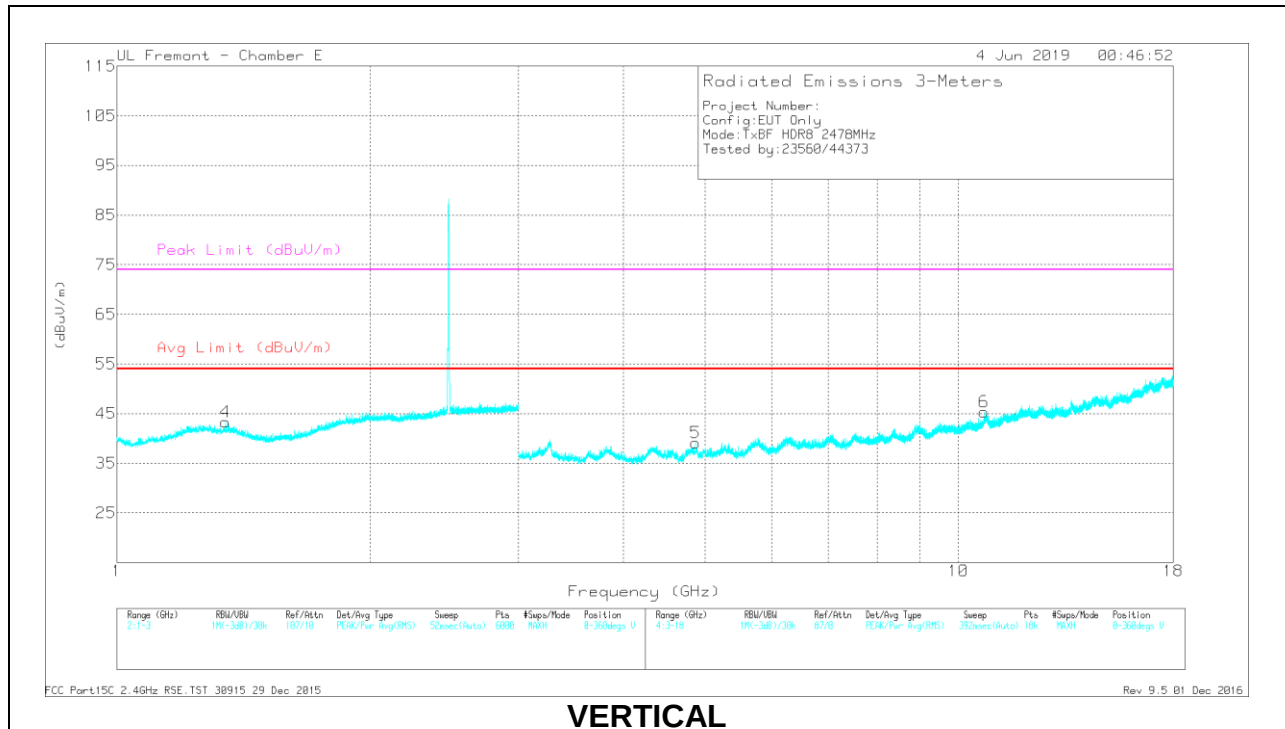
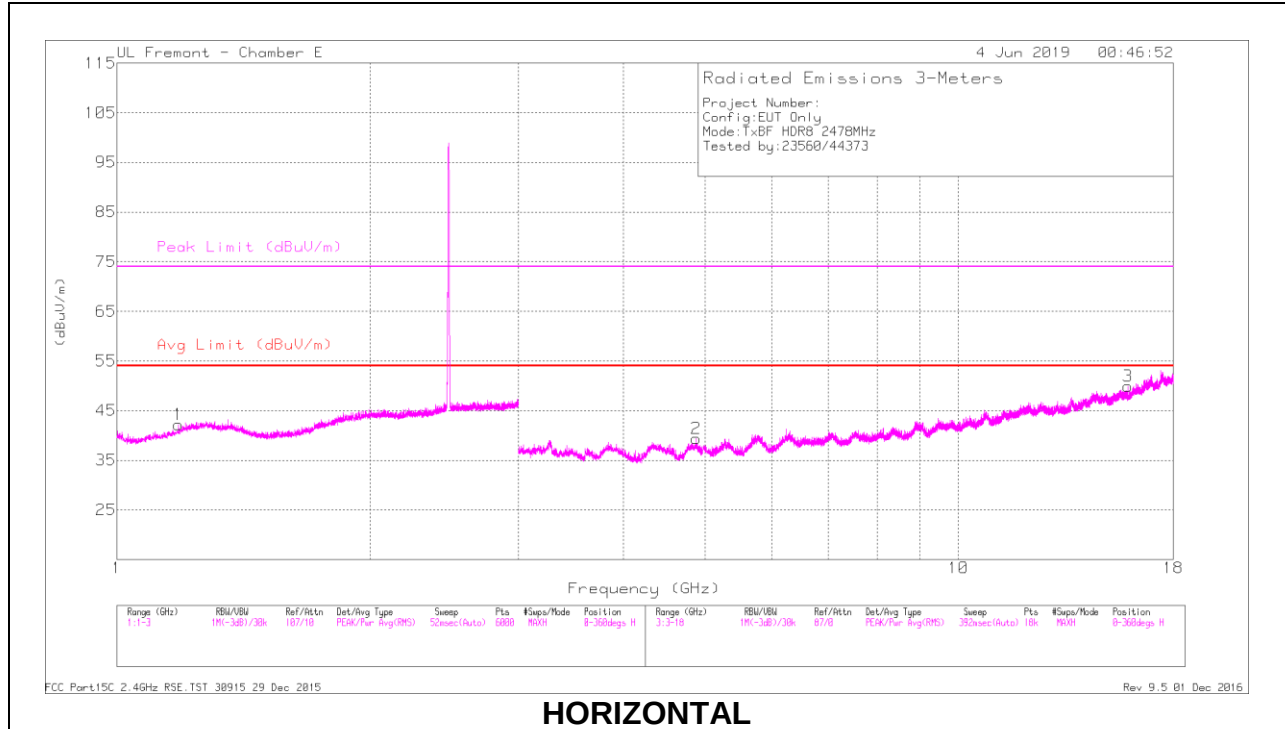
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.104	45.59	PK2	27.9	-25.9	47.59	-	-	74	-26.41	196	106	H
	* 1.106	34.07	MAv1	27.9	-25.9	36.07	54	-17.93	-	-	196	106	H
4	* 1.5	46.26	PK2	27.8	-26.2	47.86	-	-	74	-26.14	335	287	V
	* 1.499	34.55	MAv1	27.8	-26.2	36.15	54	-17.85	-	-	335	287	V
2	* 4.386	41.99	PK2	33.7	-29.8	45.89	-	-	74	-28.11	143	223	H
	* 4.387	30.62	MAv1	33.7	-29.8	34.52	54	-19.48	-	-	143	223	H
3	* 7.557	39.26	PK2	35.7	-26.4	48.56	-	-	74	-25.44	13	389	H
	* 7.556	27.44	MAv1	35.7	-26.4	36.74	54	-17.26	-	-	13	389	H
5	* 3.722	44.27	PK2	33.1	-33	44.37	-	-	74	-29.63	259	163	V
	* 3.722	32.35	MAv1	33.1	-33	32.45	54	-21.55	-	-	259	163	V
6	* 15.676	35.35	PK2	40.3	-20.6	55.05	-	-	74	-18.95	353	356	V
	* 15.673	24.91	MAv1	40.2	-20.6	44.51	54	-9.49	-	-	353	356	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	* 1.184	46.09	PK2	29.1	-26.1	49.09	-	-	74	-24.91	342	277	H
	* 1.185	34.34	MAv1	29.1	-26.1	37.34	54	-16.66	-	-	342	277	H
4	* 1.344	46.3	PK2	29.6	-26.2	49.7	-	-	74	-24.3	221	108	V
	* 1.344	34.44	MAv1	29.6	-26.2	37.84	54	-16.16	-	-	221	108	V
2	* 4.88	41.87	PK2	34	-30	45.87	-	-	74	-28.13	5	160	H
	* 4.881	30.68	MAv1	34	-30	34.68	54	-19.32	-	-	5	160	H
3	* 15.894	35.62	PK2	40.1	-20.1	55.62	-	-	74	-18.38	118	387	H
	* 15.892	24.51	MAv1	40.1	-20.1	44.51	54	-9.49	-	-	118	387	H
2	* 4.875	41.54	PK2	34	-29.9	45.64	-	-	74	-28.36	235	105	V
	* 4.874	30.67	MAv1	34	-29.9	34.77	54	-19.23	-	-	235	105	V
6	* 10.726	36.79	PK2	37.9	-24	50.69	-	-	74	-23.31	138	323	V
	* 10.724	26.23	MAv1	37.9	-24	40.13	54	-13.87	-	-	138	323	V

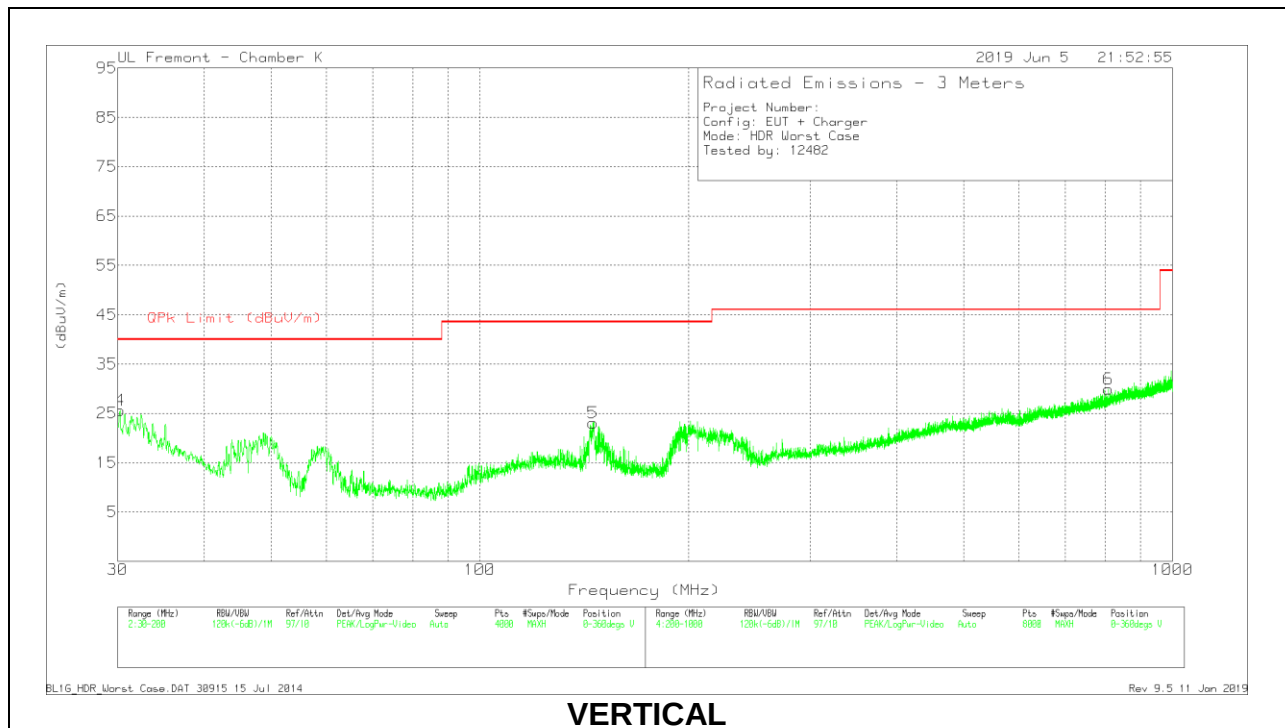
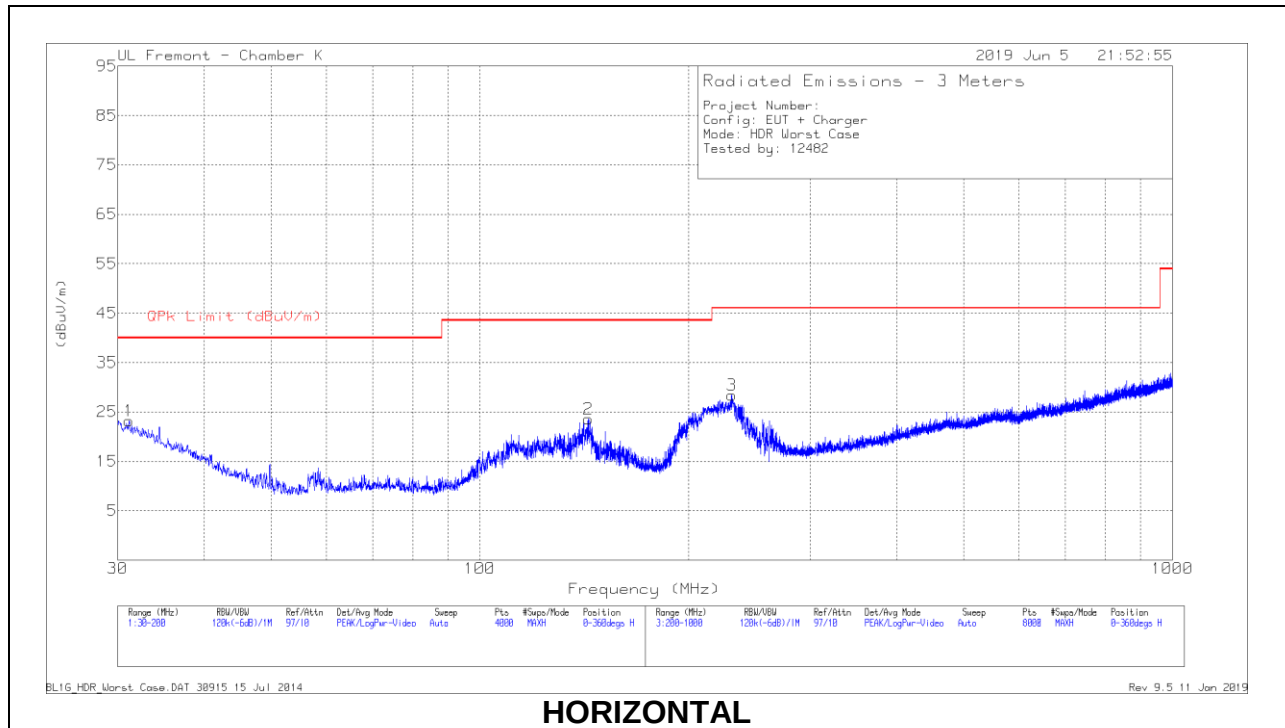
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.3. WORST CASE BELOW 1 GHZ

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



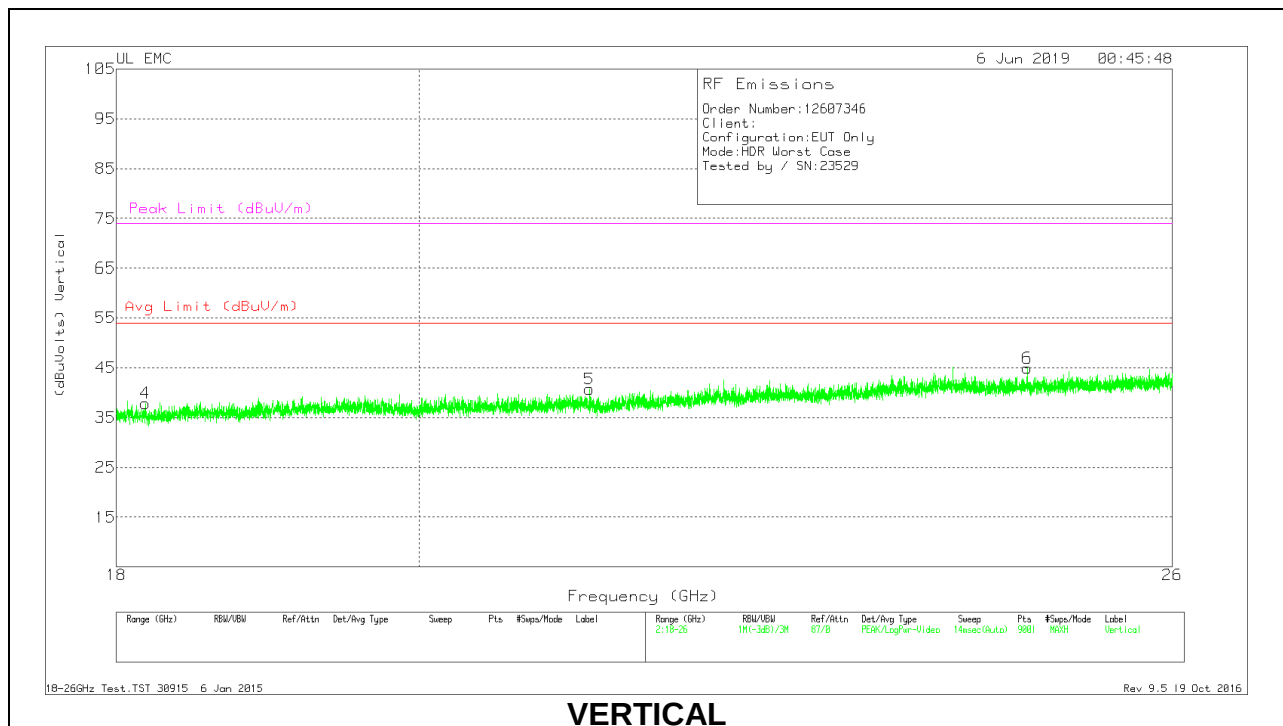
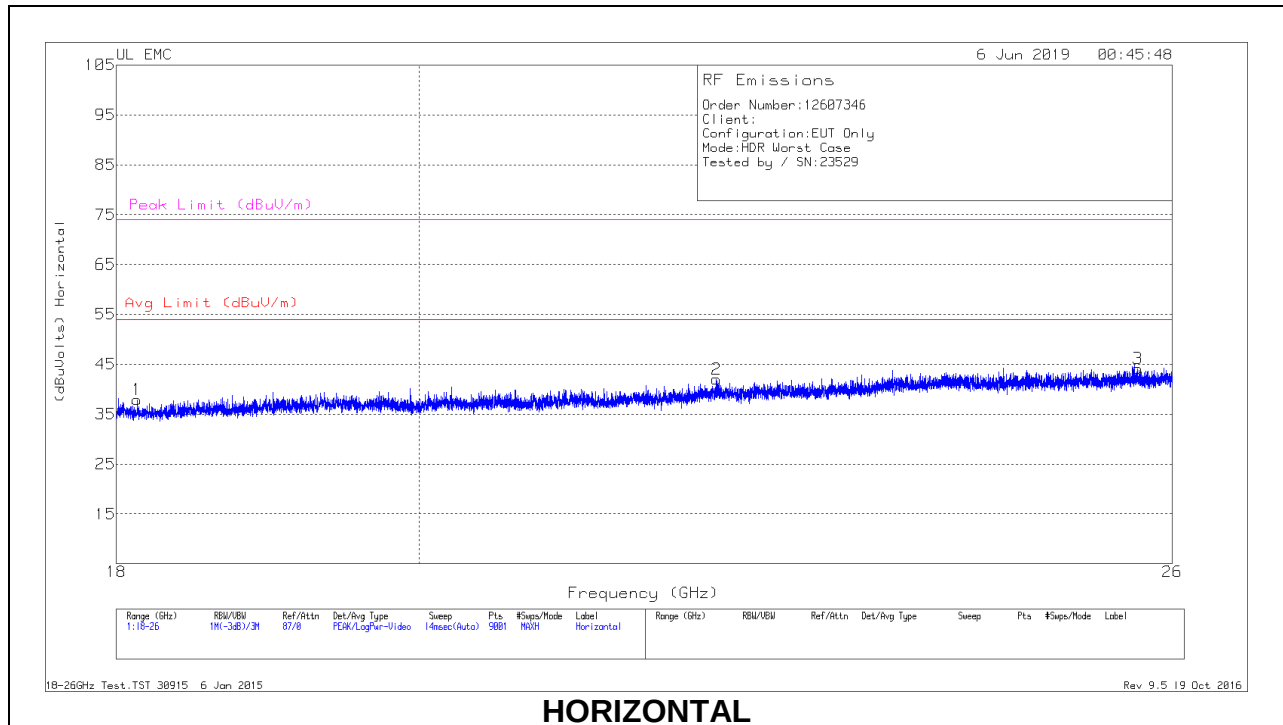
Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0184052 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.1478	28.94	Pk	25.8	-31.6	23.14	40	-16.86	0-360	98	H
2	143.2918	35.36	Pk	18.7	-30.5	23.56	43.52	-19.96	0-360	199	H
4	30.2126	30.87	Pk	26.3	-31.6	25.57	40	-14.43	0-360	100	V
5	145.6724	35.04	Pk	18.6	-30.6	23.04	43.52	-20.48	0-360	100	V
3	230.904	41.34	Pk	17.1	-30	28.44	46.02	-17.58	0-360	100	H
6	808.079	30.48	Pk	27.3	-27.9	29.88	46.02	-16.14	0-360	100	V

Pk - Peak detector

9.4. WORST CASE 18-26 GHZ

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



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	18.13	37.4	Pk	32.4	-22.4	-9.5	37.9	54	-16.1	74	-36.1
2	22.183	38.08	Pk	33.4	-20	-9.5	41.98	54	-12.02	74	-32.02
3	25.688	39.12	Pk	34.4	-19.9	-9.5	44.12	54	-9.88	74	-29.88
4	18.181	37.46	Pk	32.3	-22.4	-9.5	37.86	54	-16.14	74	-36.14
5	21.223	38.42	Pk	33	-21.2	-9.5	40.72	54	-13.28	74	-33.28
6	24.72	39.25	Pk	34.4	-19.2	-9.5	44.95	54	-9.05	74	-29.05

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.

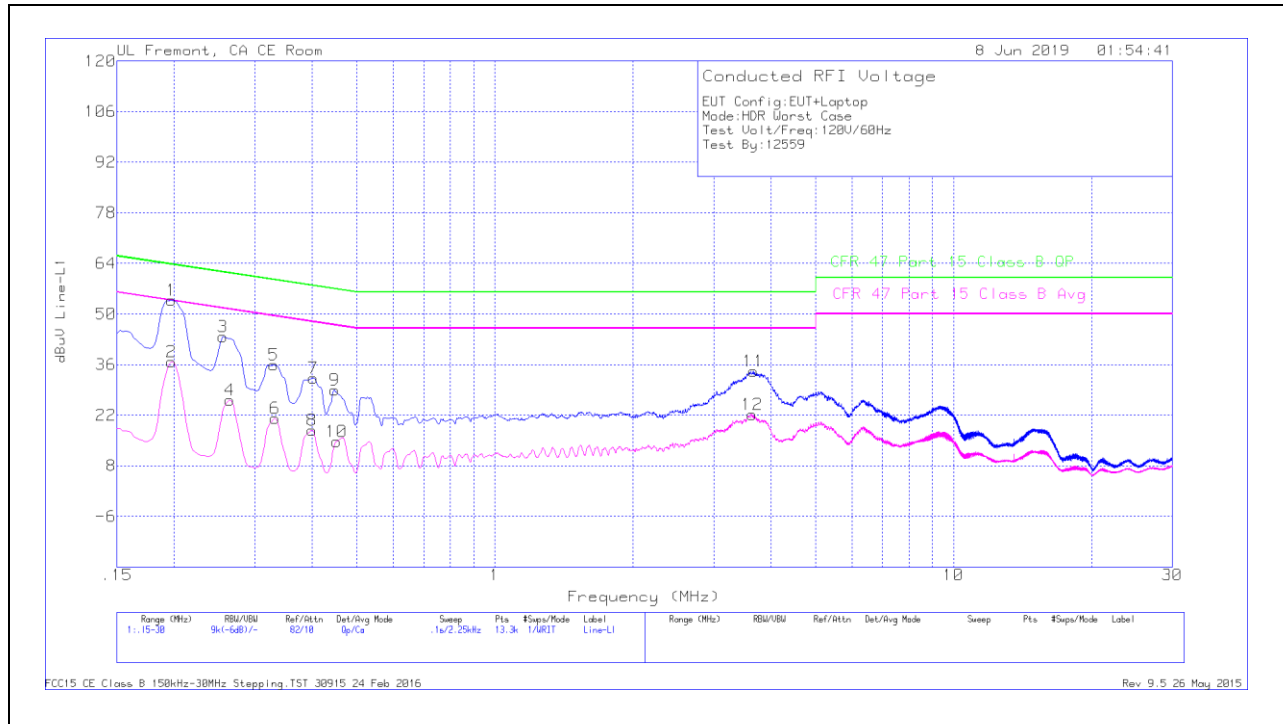
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1. AC Power Line Host

LINE 1 RESULTS

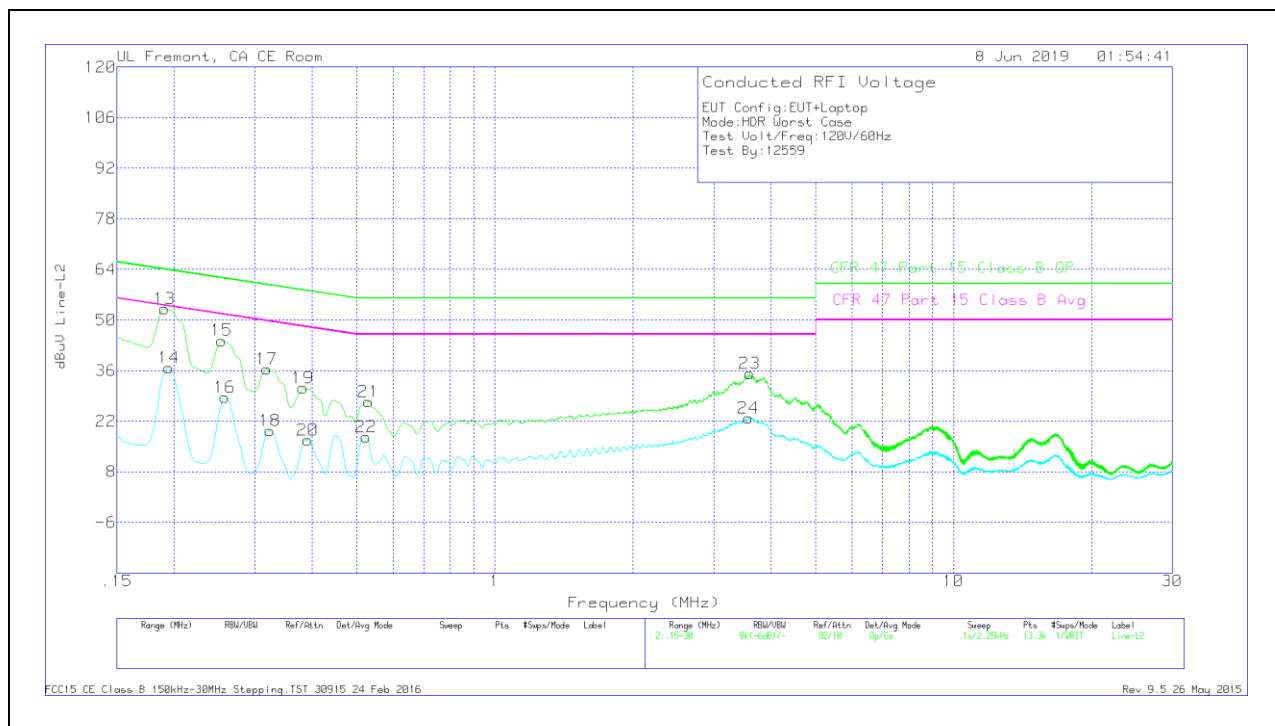


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.19725	43.68	Qp	0	0	10.1	53.78	63.73	-9.95	-	-
2	.19725	26.71	Ca	0	0	10.1	36.81	-	-	53.73	-16.92
3	.25575	33.61	Qp	0	0	10.1	43.71	61.57	-17.86	-	-
4	.26475	16.06	Ca	0	0	10.1	26.16	-	-	51.28	-25.12
5	.33	25.76	Qp	0	0	10.1	35.86	59.45	-23.59	-	-
6	.33225	10.97	Ca	0	0	10.1	21.07	-	-	49.39	-28.32
7	.402	22.23	Qp	0	0	10.1	32.33	57.81	-25.48	-	-
8	.39975	7.8	Ca	0	0	10.1	17.9	-	-	47.86	-29.96
9	.447	18.89	Qp	0	0	10.1	28.99	56.93	-27.94	-	-
10	.4515	4.65	Ca	0	0	10.1	14.75	-	-	46.85	-32.1
11	3.66	24.02	Qp	0	.1	10.1	34.22	56	-21.78	-	-
12	3.6375	12.02	Ca	0	.1	10.1	22.22	-	-	46	-23.78

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



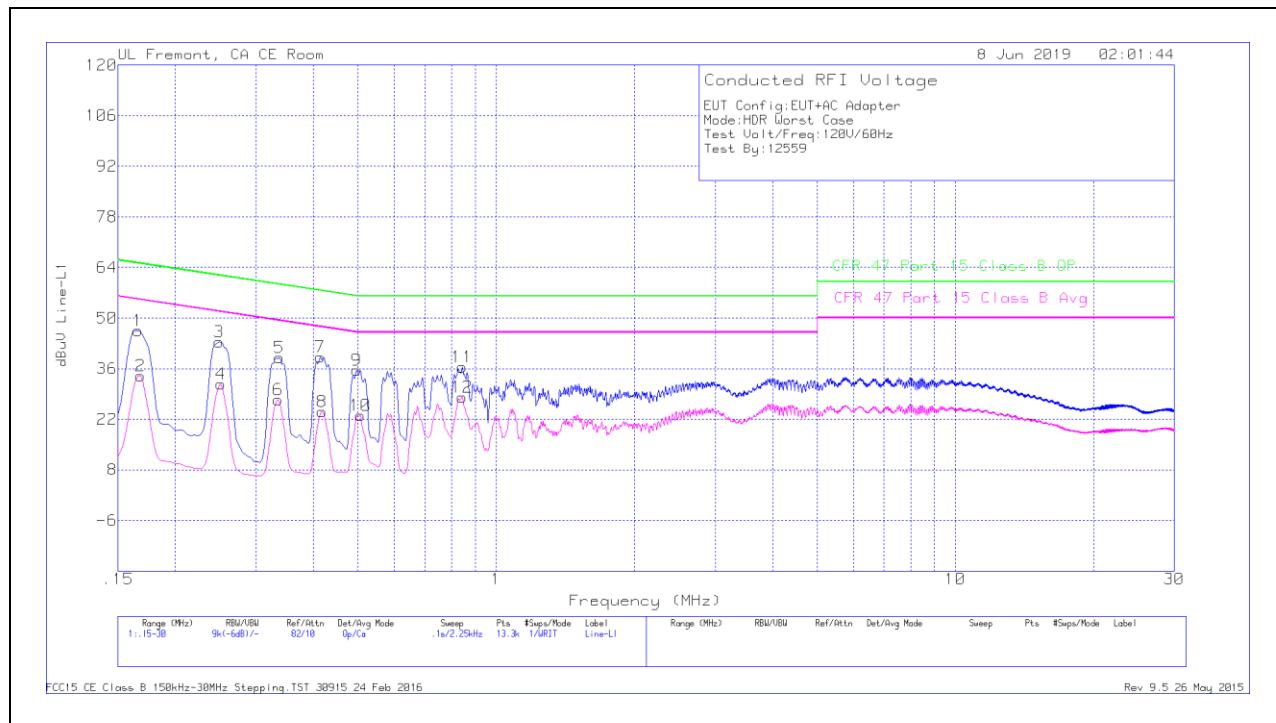
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.1905	42.96	Qp	0	0	10.1	53.06	64.01	-10.95	-	-
14	.195	26.62	Ca	0	0	10.1	36.72	-	-	53.82	-17.1
15	.2535	34.25	Qp	0	0	10.1	44.35	61.64	-17.29	-	-
16	.258	18.58	Ca	0	0	10.1	28.68	-	-	51.5	-22.82
17	.31875	26.27	Qp	0	0	10.1	36.37	59.74	-23.37	-	-
18	.32325	9.28	Ca	0	0	10.1	19.38	-	-	49.62	-30.24
19	.38175	21.16	Qp	0	0	10.1	31.26	58.24	-26.98	-	-
20	.39075	6.71	Ca	0	0	10.1	16.81	-	-	48.05	-31.24
21	.53025	17.37	Qp	0	0	10.1	27.47	56	-28.53	-	-
22	.5235	7.5	Ca	0	0	10.1	17.6	-	-	46	-28.4
23	3.59025	24.99	Qp	0	.1	10.1	35.19	56	-20.81	-	-
24	3.57	12.73	Ca	0	.1	10.1	22.93	-	-	46	-23.07

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.2. AC Power Line Norm

LINE 1 RESULTS

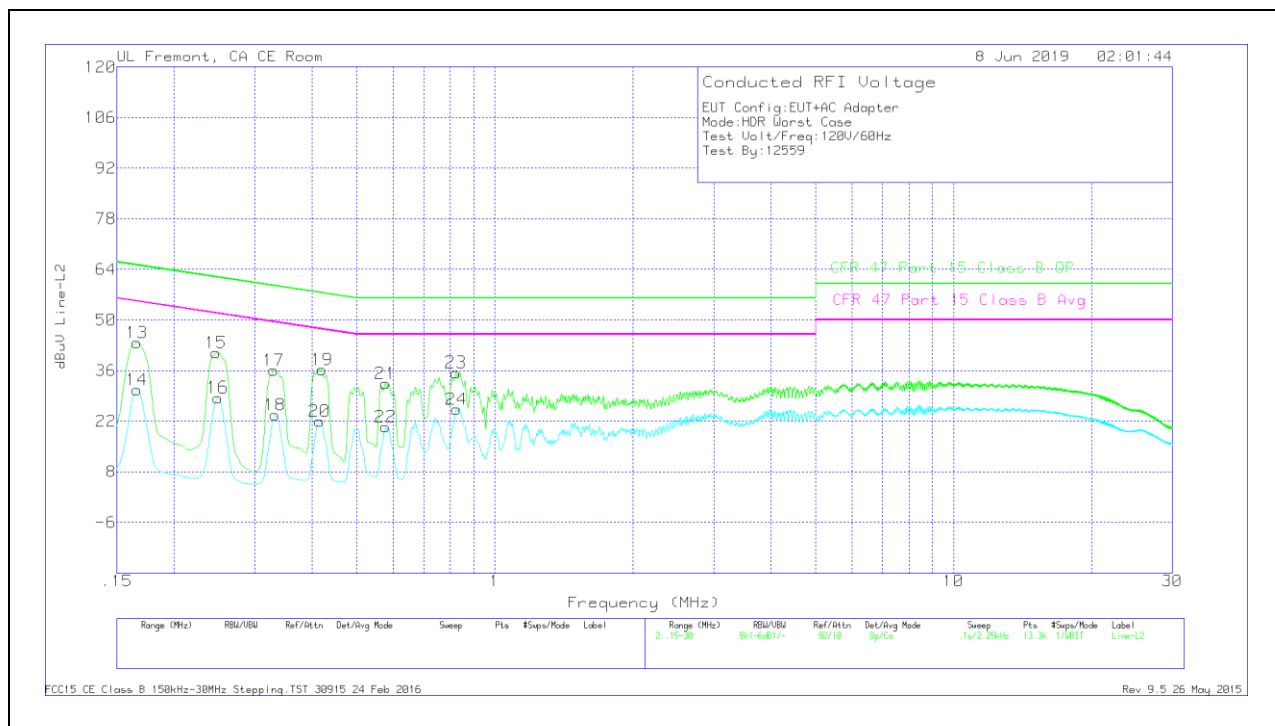


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.16575	36.3	Qp	.1	0	10.1	46.5	65.17	-18.67	-	-
2	.168	23.86	Ca	.1	0	10.1	34.06	-	-	55.06	-21
3	.249	33.27	Qp	0	0	10.1	43.37	61.79	-18.42	-	-
4	.25125	21.58	Ca	0	0	10.1	31.68	-	-	51.72	-20.04
5	.33675	29.02	Qp	0	0	10.1	39.12	59.28	-20.16	-	-
6	.3345	17.31	Ca	0	0	10.1	27.41	-	-	49.34	-21.93
7	.41325	29.12	Qp	0	0	10.1	39.22	57.58	-18.36	-	-
8	.41775	13.97	Ca	0	0	10.1	24.07	-	-	47.49	-23.42
9	.4965	25.42	Qp	0	0	10.1	35.52	56.06	-20.54	-	-
10	.5055	12.99	Ca	0	0	10.1	23.09	-	-	46	-22.91
11	.843	26.38	Qp	0	0	10.1	36.48	56	-19.52	-	-
12	.843	17.94	Ca	0	0	10.1	28.04	-	-	46	-17.96

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	.16575	33.53	Qp	.1	0	10.1	43.73	65.17	-21.44	-	-
14	.16575	20.49	Ca	.1	0	10.1	30.69	-	-	55.17	-24.48
15	.24675	30.8	Qp	0	0	10.1	40.9	61.87	-20.97	-	-
16	.249	18.43	Ca	0	0	10.1	28.53	-	-	51.79	-23.26
17	.33	25.96	Qp	0	0	10.1	36.06	59.45	-23.39	-	-
18	.33225	13.66	Ca	0	0	10.1	23.76	-	-	49.39	-25.63
19	.42	26.18	Qp	0	0	10.1	36.28	57.45	-21.17	-	-
20	.4155	11.89	Ca	0	0	10.1	21.99	-	-	47.54	-25.55
21	.5775	22.4	Qp	0	0	10.1	32.5	56	-23.5	-	-
22	.5775	10.29	Ca	0	0	10.1	20.39	-	-	46	-25.61
23	.82275	25.38	Qp	0	0	10.1	35.48	56	-20.52	-	-
24	.825	15.2	Ca	0	0	10.1	25.3	-	-	46	-20.7

Qp - Quasi-Peak detector

Ca - CISPR average detection

END OF TEST REPORT

11. SETUP PHOTOS

Please refer to 12607346-EP1V1 for setup photos