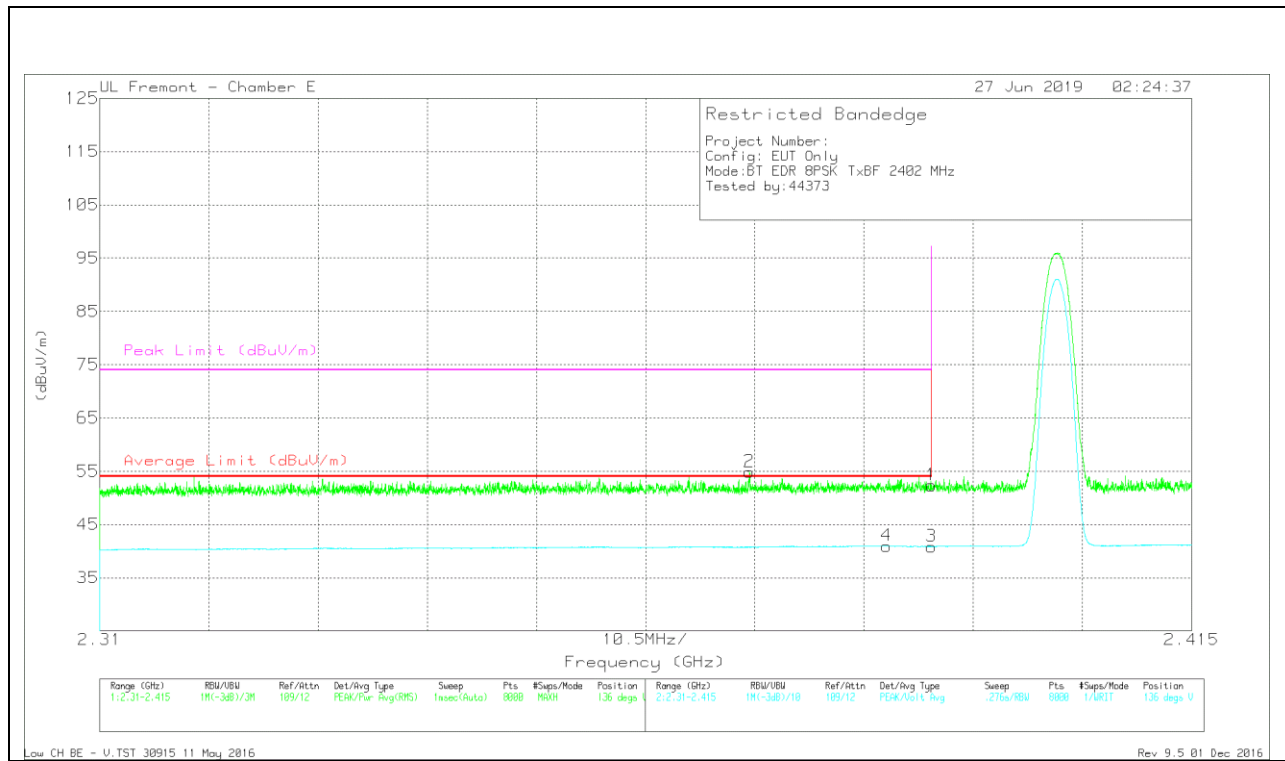


VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dBm)	Amp/Cbl/Filtr/P ad (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	38.36	Pk	32.3	-18.3	52.36	-	-	74	-21.64	136	382	V
2	* 2.372	41.09	Pk	32.2	-18.4	54.89	-	-	74	-19.11	136	382	V
3	* 2.39	26.85	VA1T	32.3	-18.3	40.85	54	-13.15	-	-	136	382	V
4	* 2.386	26.88	VA1T	32.3	-18.2	40.98	54	-13.02	-	-	136	382	V

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

Pk - Peak detector

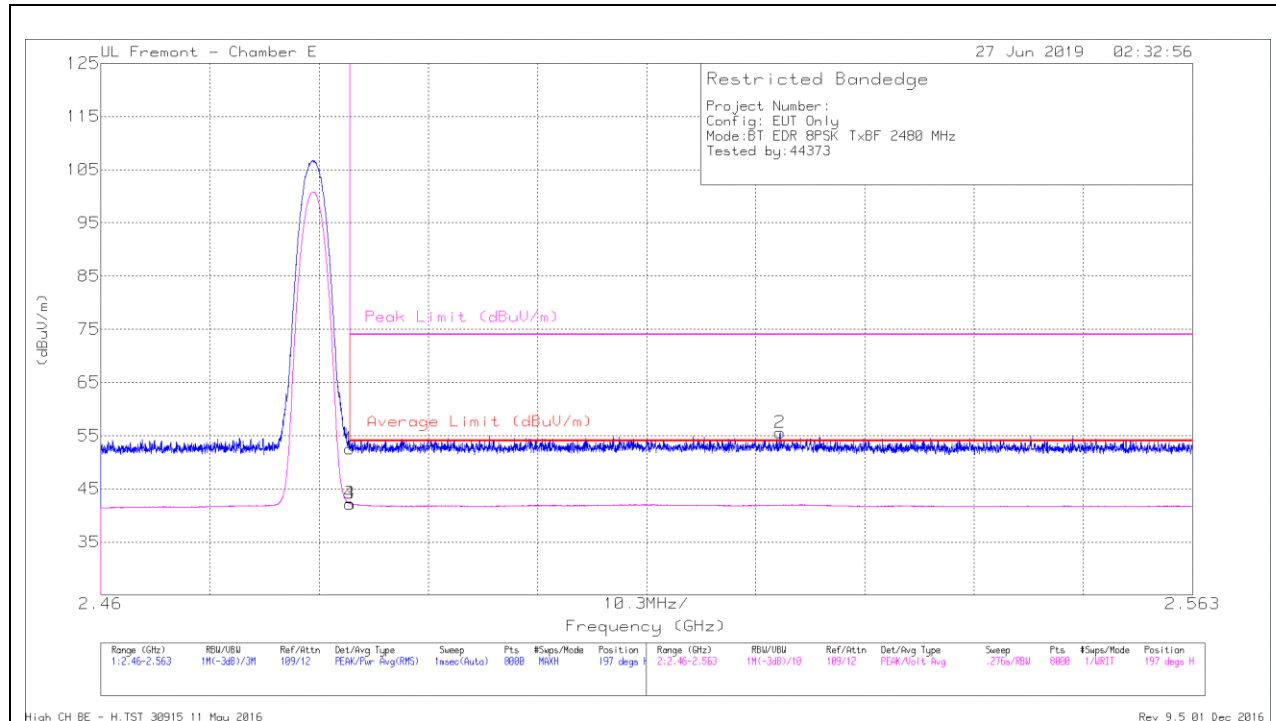
VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

Low CH BE - V.TST 30915 11 May 2016

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr/P ad (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	37.84	Pk	32.8	-18.1	52.54	-	-	74	-21.46	197	109	H
3	* 2.484	27.51	VA1T	32.8	-18.1	42.21	54	-11.79	-	-	197	109	H
4	* 2.484	27.5	VA1T	32.8	-18.1	42.2	54	-11.8	-	-	197	109	H
2	2.524	40.78	Pk	32.9	-18.1	55.58	-	-	74	-18.42	197	109	H

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

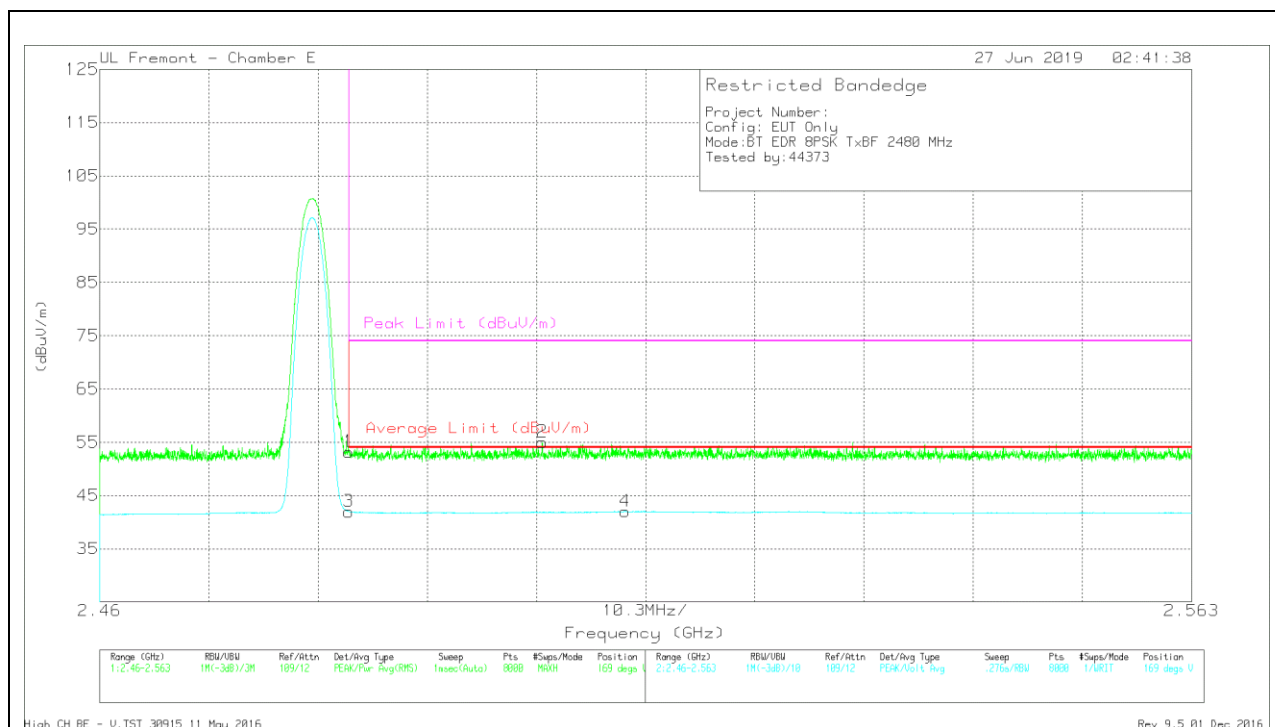
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High CH BE - H.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



arker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filtr/P ad (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	38.47	Pk	32.8	-18.1	53.17	-	-	74	-20.83	169	363	V
3	* 2.484	27.27	VA1T	32.8	-18.1	41.97	54	-12.03	-	-	169	363	V
2	2.502	40.31	Pk	32.9	-18.2	55.01	-	-	74	-18.99	169	363	V
4	2.51	27.21	VA1T	32.9	-18.1	42.01	54	-11.99	-	-	169	363	V

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

Pk - Peak detector

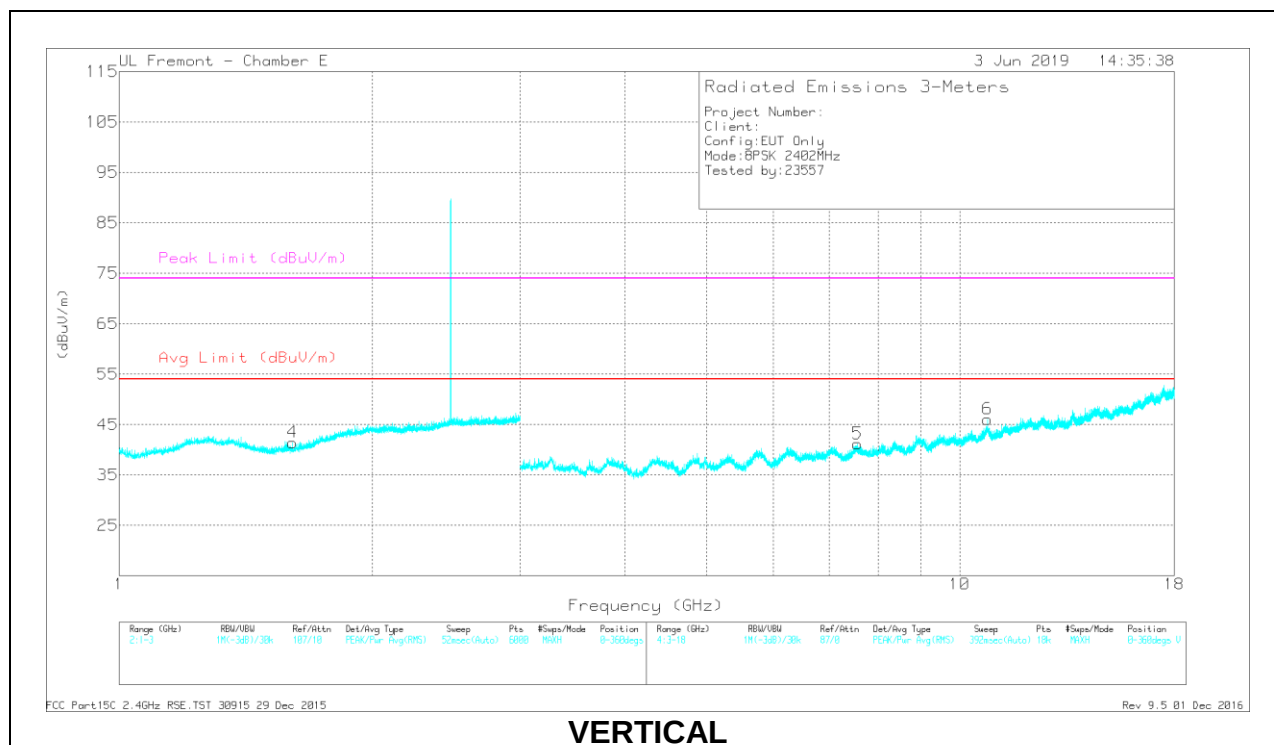
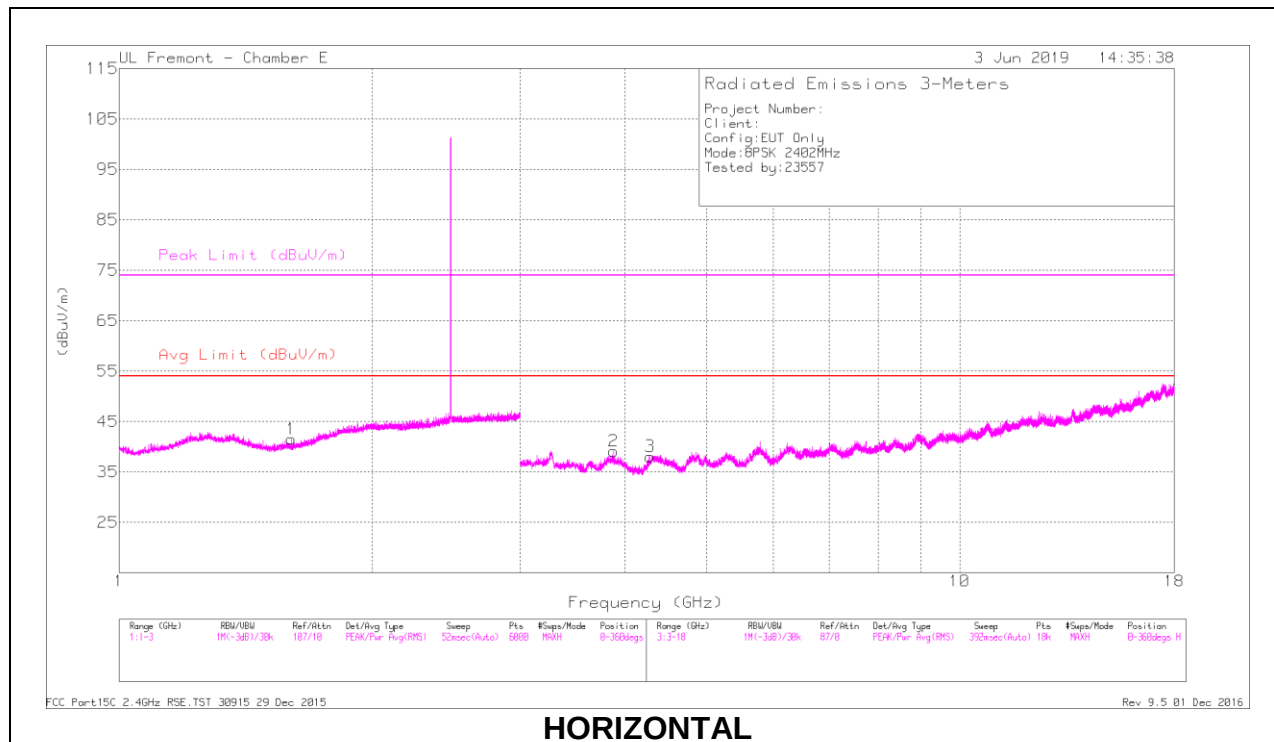
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High CH BE - U.TST 30915 11 May 2016

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

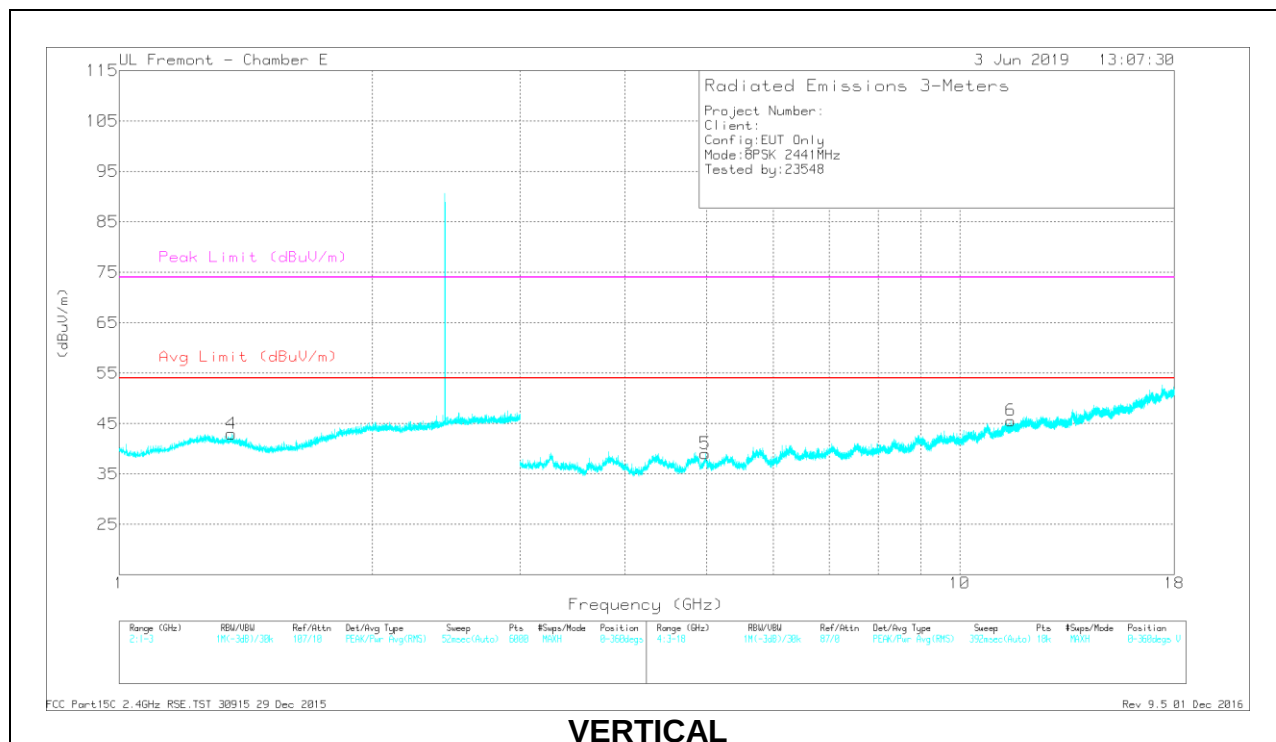
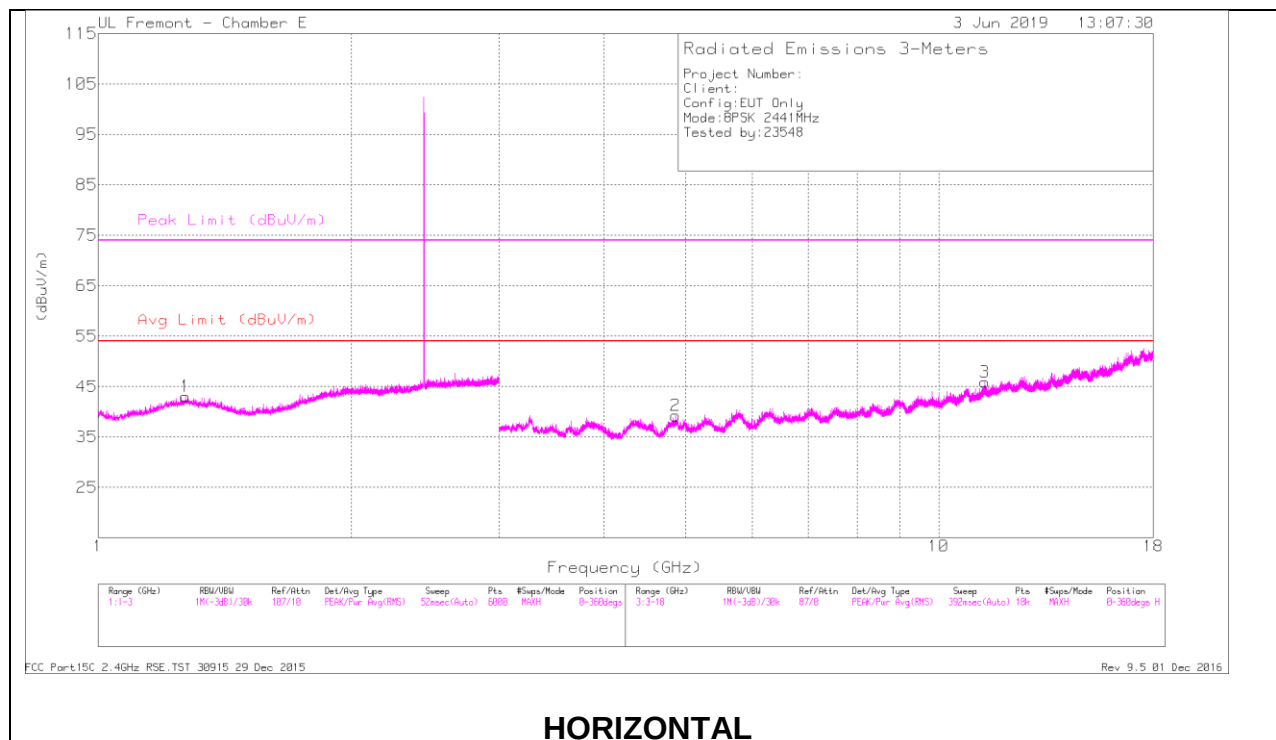
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	* 1.603	44.05	PKFH	28.1	-26.3	45.85	-	-	74	-28.15	224	374	H
1	* 1.603	32.77	VA1T	28.1	-26.2	34.67	54	-19.33	-	-	224	374	H
	* 1.608	44.44	PKFH	28.2	-26.2	46.44	-	-	74	-27.56	36	172	V
4	* 1.608	32.78	VA1T	28.2	-26.2	34.78	54	-19.22	-	-	36	172	V
	* 3.88	41.85	PKFH	33.4	-30.5	44.75	-	-	74	-29.25	10	125	H
2	* 3.88	29.37	VA1T	33.4	-30.5	32.27	54	-21.73	-	-	10	125	H
	* 4.283	41.68	PKFH	33.6	-31	44.28	-	-	74	-29.72	235	278	H
3	* 4.283	29.5	VA1T	33.6	-31	32.1	54	-21.9	-	-	235	278	H
	* 7.556	37.4	PKFH	35.7	-26.4	46.7	-	-	74	-27.3	98	226	V
5	* 7.557	25.44	VA1T	35.7	-26.4	34.74	54	-19.26	-	-	98	226	V
	* 10.786	36.11	PKFH	37.9	-22.9	51.11	-	-	74	-22.89	158	333	V
6	* 10.788	24.01	VA1T	37.9	-22.9	39.01	54	-14.99	-	-	158	333	V

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

PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



RADIATED EMISSIONS

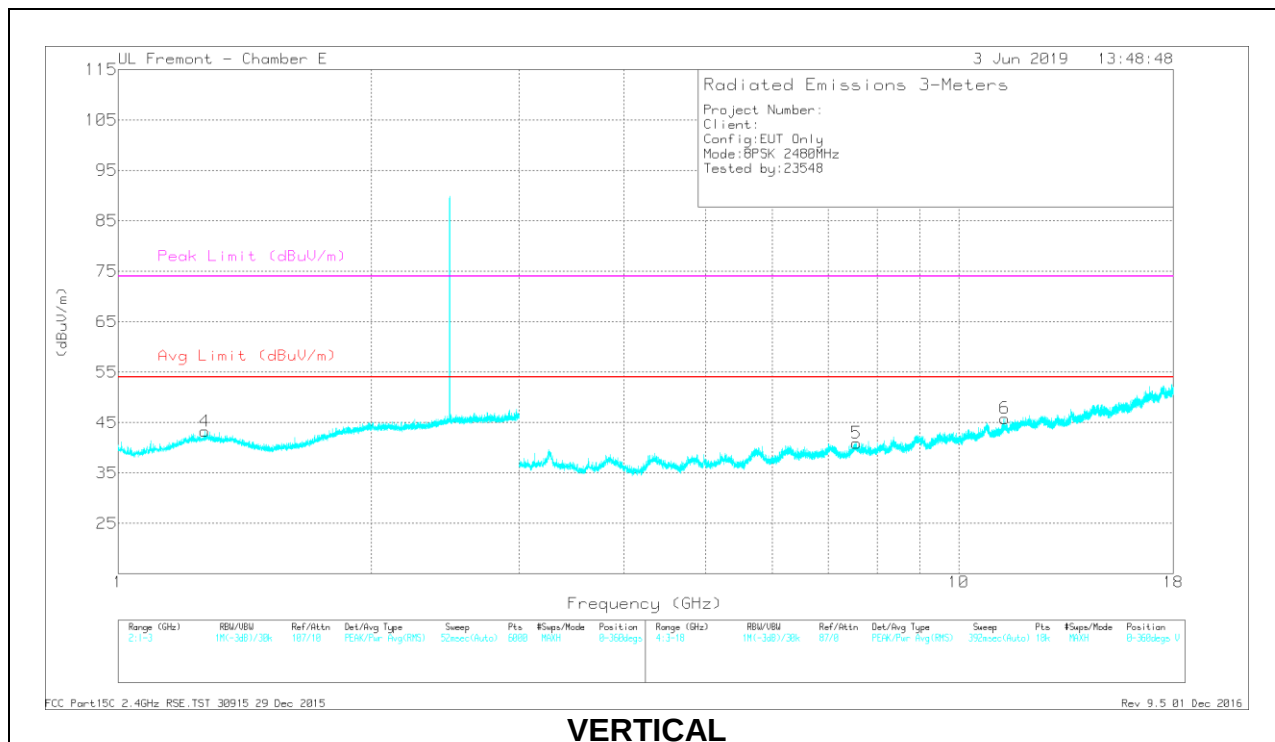
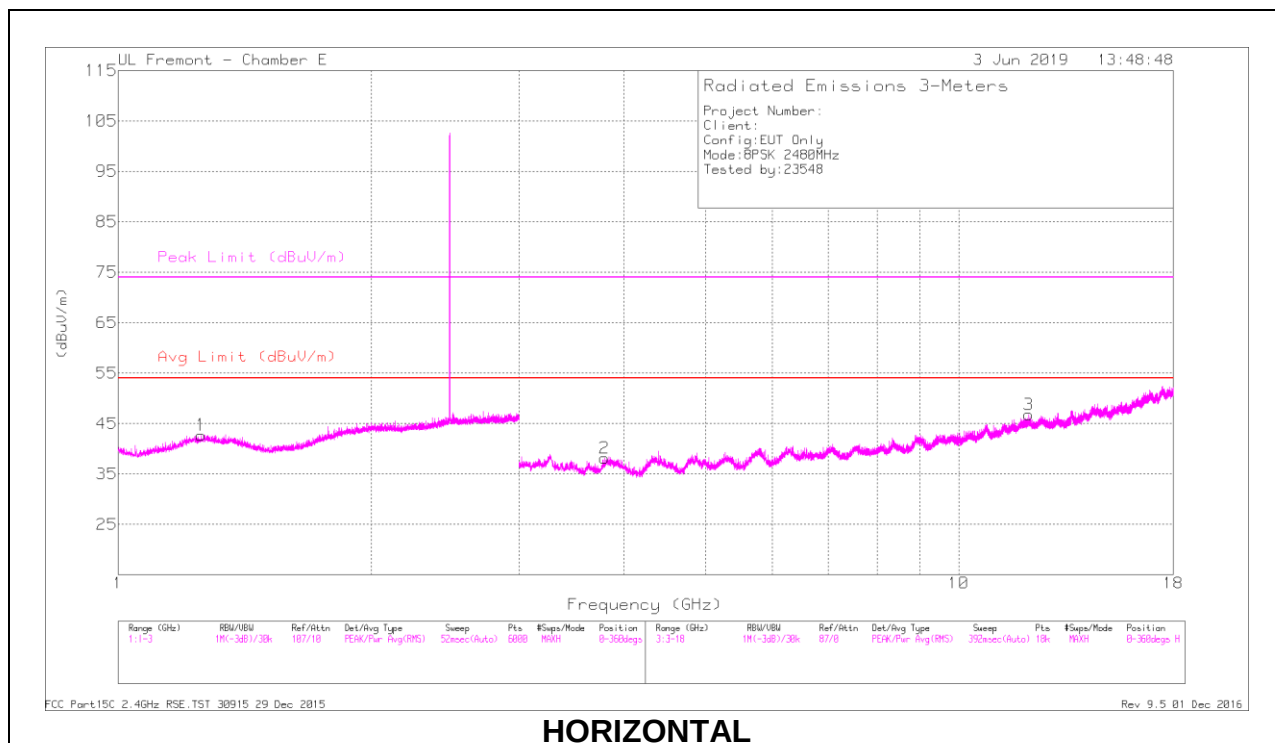
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.271	46.68	PKFH	30.1	-26.2	50.58	-	-	74	-23.42	23	127	H
	* 1.271	32.64	VA1T	30.1	-26.2	36.54	54	-17.46	-	-	23	127	H
2	* 4.863	40.24	PKFH	34	-29.8	44.44	-	-	74	-29.56	338	187	H
	* 4.865	28.63	VA1T	34	-29.8	32.83	54	-21.17	-	-	338	187	H
3	* 11.342	35.9	PKFH	38.1	-22.3	51.7	-	-	74	-22.3	0	178	H
	* 11.342	23.12	VA1T	38.1	-22.3	38.92	54	-15.08	-	-	0	178	H
4	* 1.359	44.89	PKFH	29.7	-26.2	48.39	-	-	74	-25.61	260	113	V
	* 1.361	32.74	VA1T	29.7	-26.2	36.24	54	-17.76	-	-	260	113	V
5	* 4.982	40.62	PKFH	34.1	-30.3	44.42	-	-	74	-29.58	0	238	V
	* 4.982	29.32	VA1T	34.1	-30.3	33.12	54	-20.88	-	-	0	238	V
6	* 11.504	35.39	PKFH	38.5	-23	50.89	-	-	74	-23.11	163	379	V
	* 11.504	23.32	VA1T	38.5	-23	38.82	54	-15.18	-	-	163	379	V

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

PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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	* 1.255	44.17	PKFH	29.9	-26.1	47.97	-	-	74	-26.03	108	187	H
	* 1.258	32.59	VA1T	29.9	-26.1	36.39	54	-17.61	-	-	108	187	H
2	* 3.793	42.95	PKFH	33.3	-32	44.25	-	-	74	-29.75	208	345	H
	* 3.793	30.59	VA1T	33.3	-32	31.89	54	-22.11	-	-	208	345	H
3	* 12.117	34.26	PKFH	39	-21.7	51.56	-	-	74	-22.44	305	359	H
	* 12.116	22.77	VA1T	39	-21.7	40.07	54	-13.93	-	-	305	359	H
4	* 1.268	45.25	PKFH	30	-26.1	49.15	-	-	74	-24.85	38	278	V
	* 1.269	32.61	VA1T	30	-26.2	36.41	54	-17.59	-	-	38	278	V
5	* 7.556	37.61	PKFH	35.7	-26.4	46.91	-	-	74	-27.09	5	148	V
	* 7.559	25.57	VA1T	35.7	-26.4	34.87	54	-19.13	-	-	5	148	V
6	* 11.344	35.42	PKFH	38.1	-22.4	51.12	-	-	74	-22.88	9	231	V
	* 11.344	23.11	VA1T	38.1	-22.4	38.81	54	-15.19	-	-	9	231	V

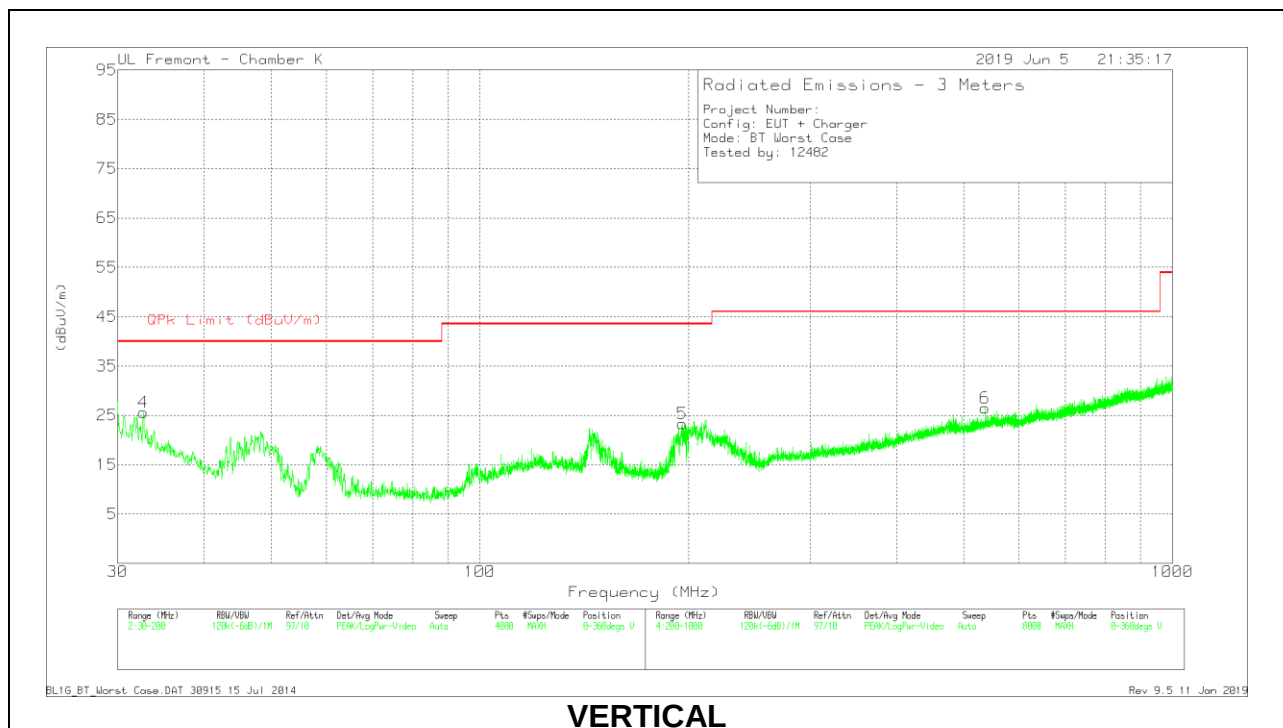
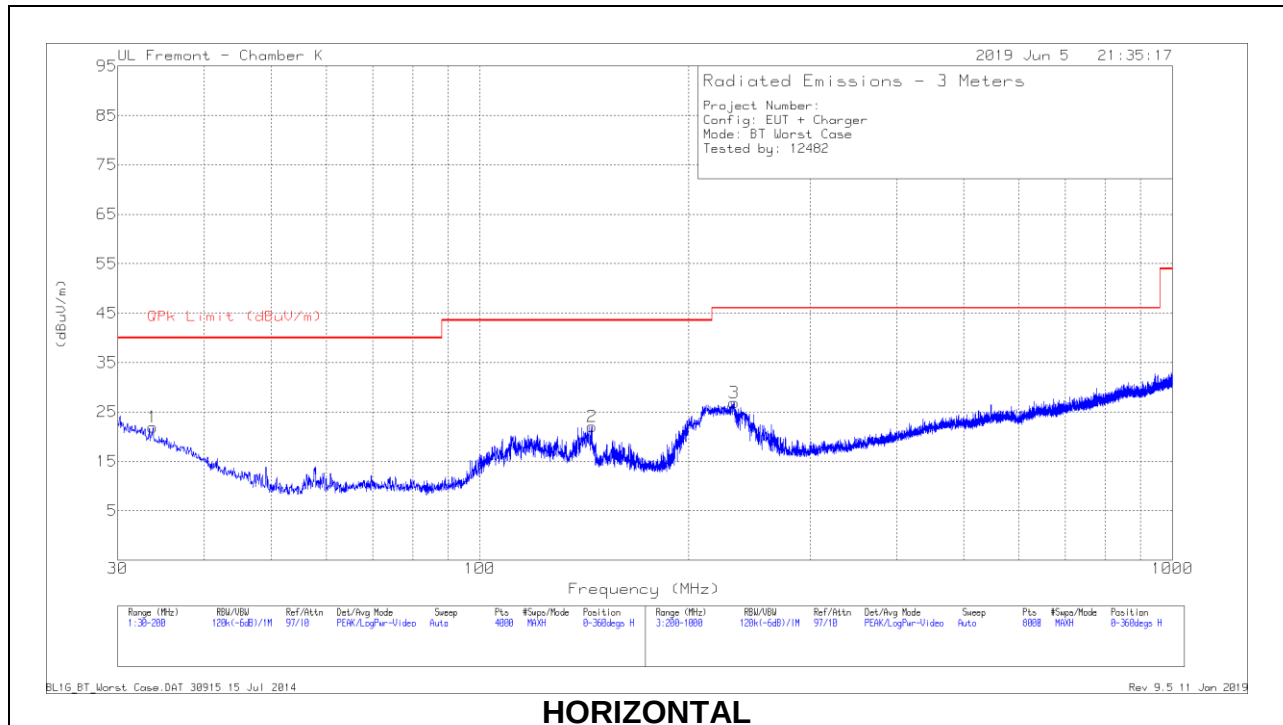
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.3. WORST CASE BELOW 1 GHZ

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



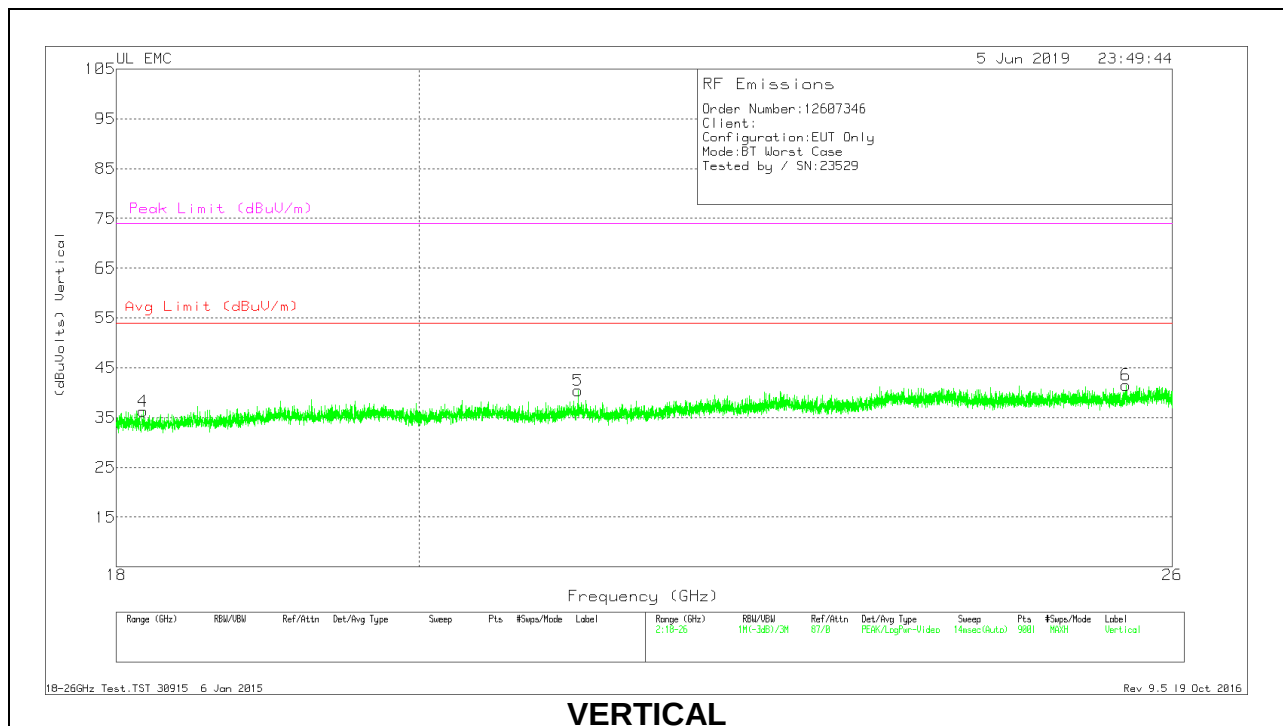
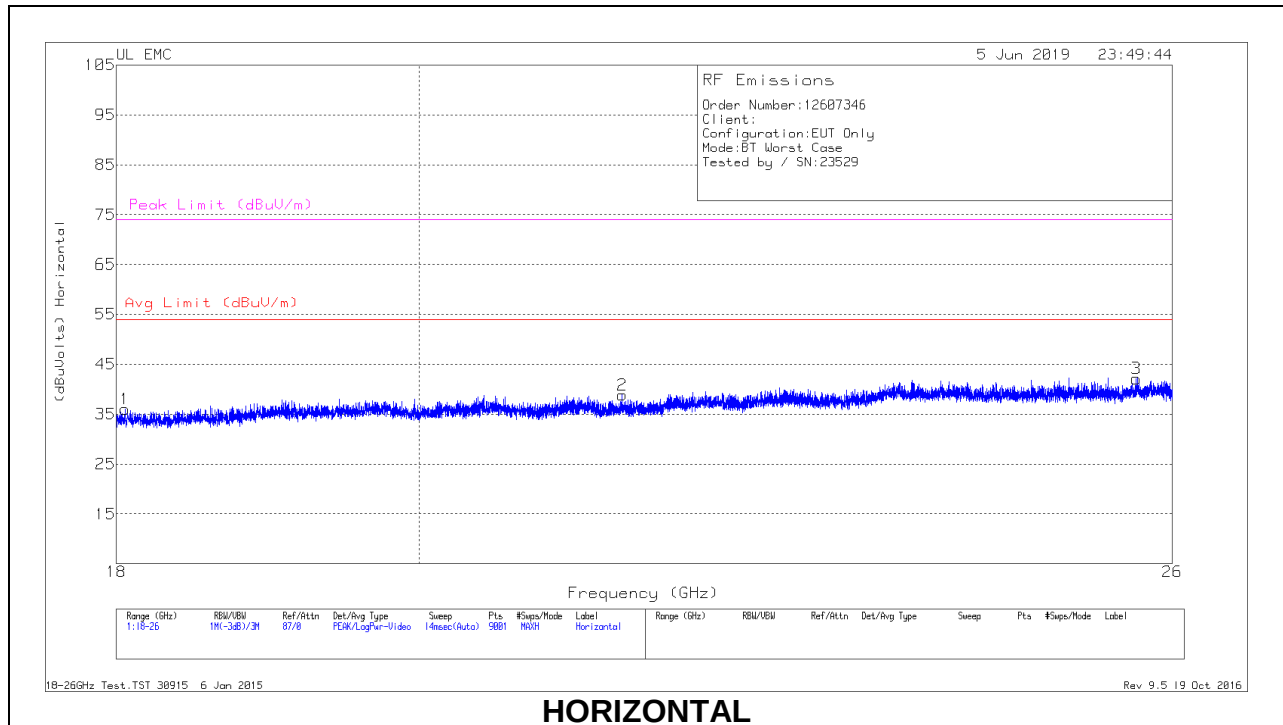
Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0184052 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.6985	29.13	Pk	24.3	-31.5	21.93	40	-18.07	0-360	98	H
2	145.0773	34.08	Pk	18.6	-30.6	22.08	43.52	-21.44	0-360	199	H
3	232.8043	39.75	Pk	17.2	-30.1	26.85	46.02	-19.17	0-360	100	H
4	32.6782	32.21	Pk	24.9	-31.5	25.61	40	-14.39	0-360	100	V
5	196.1755	35.67	Pk	17.8	-30.2	23.27	43.52	-20.25	0-360	100	V
6	536.6438	31.51	Pk	24	-29	26.51	46.02	-19.51	0-360	100	V

Pk - Peak detector

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	18.053	35.51	Pk	32.4	-22.4	-9.5	36.01	54	-17.99	74	-37.99
2	21.467	36.35	Pk	33.1	-21.1	-9.5	38.85	54	-15.15	74	-35.15
3	25.674	37.21	Pk	34.4	-20	-9.5	42.11	54	-11.89	74	-31.89
4	18.168	35.88	Pk	32.3	-22.4	-9.5	36.28	54	-17.72	74	-37.72
5	21.138	38.12	Pk	33	-21.2	-9.5	40.42	54	-13.58	74	-33.58
6	25.583	36.31	Pk	34.5	-19.8	-9.5	41.51	54	-12.49	74	-32.49

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.

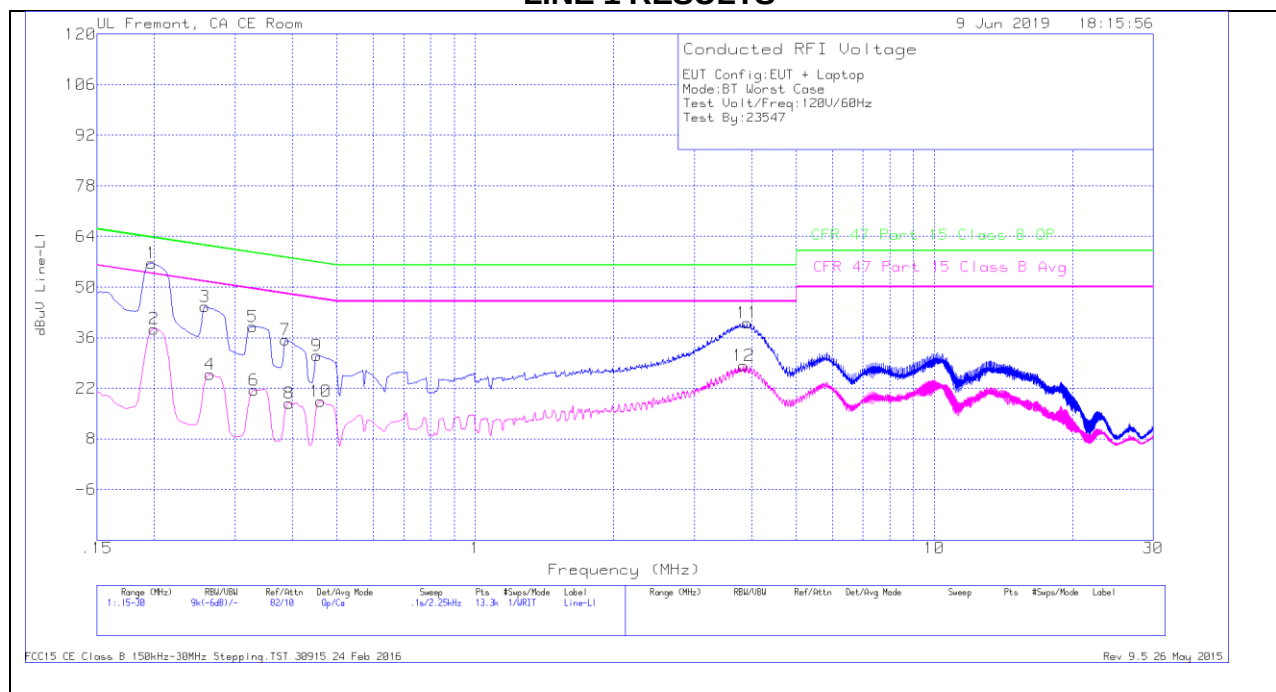
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1. AC Power Line Host

LINE 1 RESULTS



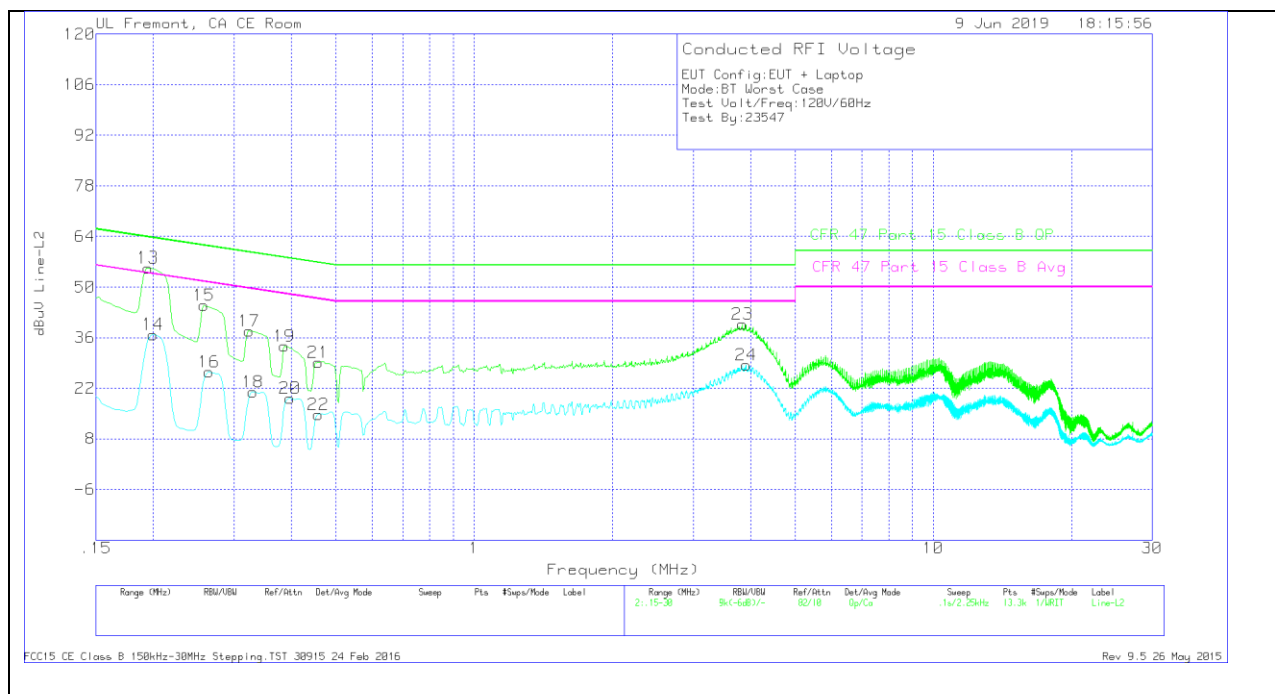
DATA

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	46.44	Qp	0	0	10.1	56.54	63.73	-7.19	-	-
2	.1995	28.34	Ca	0	0	10.1	38.44	-	-	53.63	-15.19
3	.258	34.54	Qp	0	0	10.1	44.64	61.5	-16.86	-	-
4	.26475	15.73	Ca	0	0	10.1	25.83	-	-	51.28	-25.45
5	.32775	29	Qp	0	0	10.1	39.1	59.51	-20.41	-	-
6	.33	11.44	Ca	0	0	10.1	21.54	-	-	49.45	-27.91
7	.38625	25.26	Qp	0	0	10.1	35.36	58.14	-22.78	-	-
8	.393	7.81	Ca	0	0	10.1	17.91	-	-	48	-30.09
9	.4515	21.01	Qp	0	0	10.1	31.11	56.85	-25.74	-	-
10	.4605	8.22	Ca	0	0	10.1	18.32	-	-	46.68	-28.36
11	3.912	29.92	Qp	0	.1	10.1	40.12	56	-15.88	-	-
12	3.84675	18.11	Ca	0	.1	10.1	28.31	-	-	46	-17.69

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



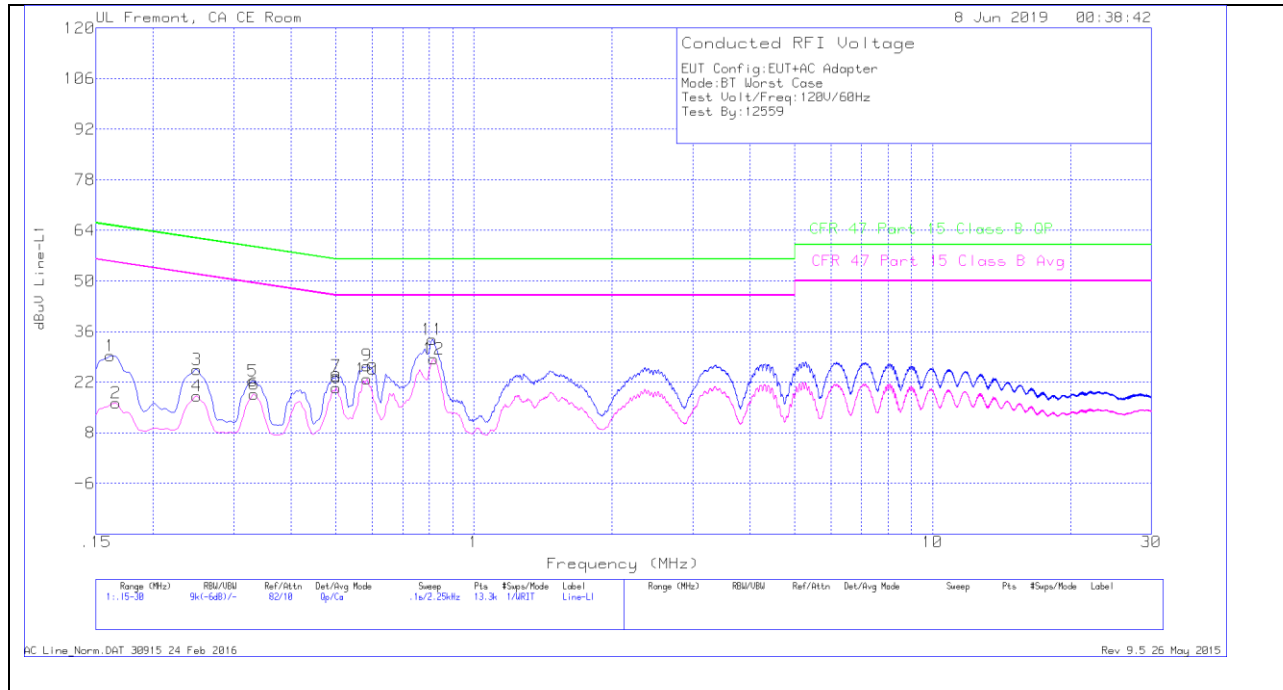
DATA

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	.195	45.2	Qp	0	0	10.1	55.3	63.82	-8.52	-	-
14	.1995	26.77	Ca	0	0	10.1	36.87	-	-	53.63	-16.76
15	.258	34.81	Qp	0	0	10.1	44.91	61.5	-16.59	-	-
16	.26475	16.45	Ca	0	0	10.1	26.55	-	-	51.28	-24.73
17	.32325	27.77	Qp	0	0	10.1	37.87	59.62	-21.75	-	-
18	.33	10.88	Ca	0	0	10.1	20.98	-	-	49.45	-28.47
19	.38625	23.6	Qp	0	0	10.1	33.7	58.14	-24.44	-	-
20	.3975	9.07	Ca	0	0	10.1	19.17	-	-	47.91	-28.74
21	.45825	19.06	Qp	0	0	10.1	29.16	56.72	-27.56	-	-
22	.45825	4.63	Ca	0	0	10.1	14.73	-	-	46.72	-31.99
23	3.84	29.51	Qp	0	.1	10.1	39.71	56	-16.29	-	-
24	3.90975	18.17	Ca	0	.1	10.1	28.37	-	-	46	-17.63

Qp - Quasi-Peak detector
Ca - CISPR average detection

10.2. AC Power Line Norm

LINE 1 RESULTS



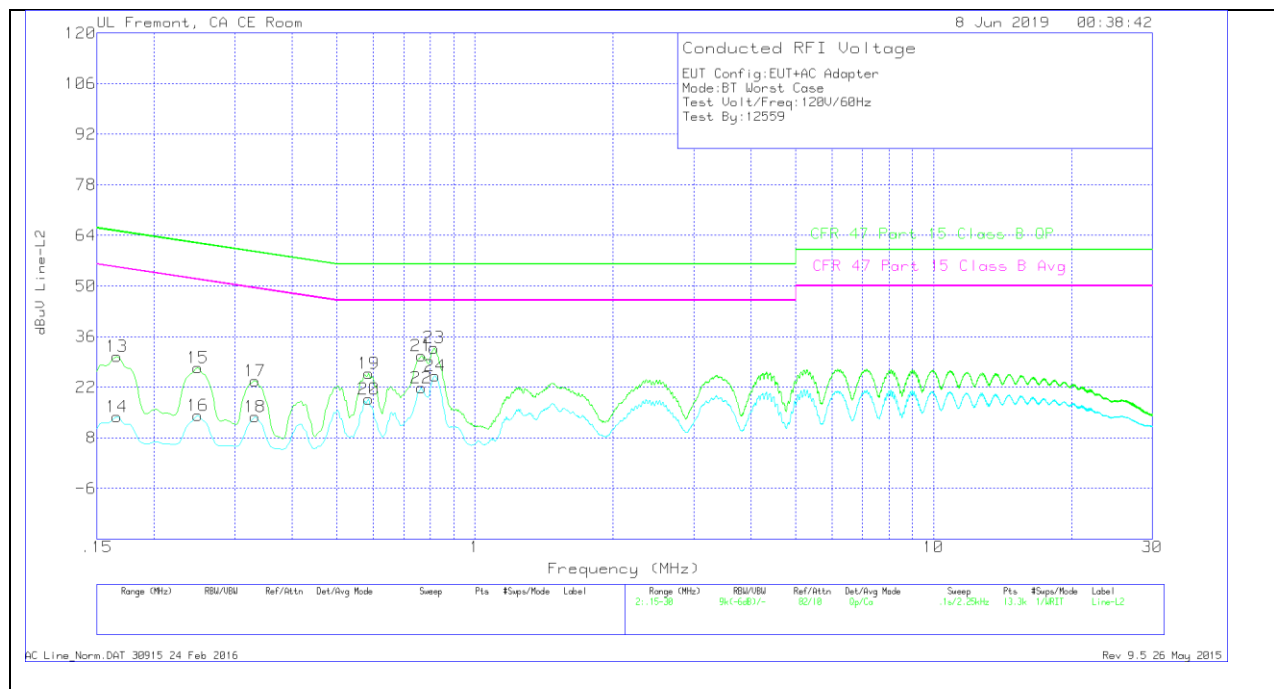
DATA

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	.16125	19.11	Qp	.1	0	10.1	29.31	65.4	-36.09	-	-
2	.16575	6.07	Ca	.1	0	10.1	16.27	-	-	55.17	-38.9
3	.249	15.4	Qp	0	0	10.1	25.5	61.79	-36.29	-	-
4	.249	8.14	Ca	0	0	10.1	18.24	-	-	51.79	-33.55
5	.33	12.19	Qp	0	0	10.1	22.29	59.45	-37.16	-	-
6	.33225	8.54	Ca	0	0	10.1	18.64	-	-	49.39	-30.75
7	.501	13.7	Qp	0	0	10.1	23.8	56	-32.2	-	-
8	.501	10.28	Ca	0	0	10.1	20.38	-	-	46	-25.62
9	.58425	16.52	Qp	0	0	10.1	26.62	56	-29.38	-	-
10	.58425	12.84	Ca	0	0	10.1	22.94	-	-	46	-23.06
11	.8115	23.73	Qp	0	0	10.1	33.83	56	-22.17	-	-
12	.81825	18.37	Ca	0	0	10.1	28.47	-	-	46	-17.53

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



DATA

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	20.37	Qp	.1	0	10.1	30.57	65.17	-34.6	-	-
14	.16575	3.67	Ca	.1	0	10.1	13.87	-	-	55.17	-41.3
15	.249	17.35	Qp	0	0	10.1	27.45	61.79	-34.34	-	-
16	.249	4.08	Ca	0	0	10.1	14.18	-	-	51.79	-37.61
17	.33225	13.6	Qp	0	0	10.1	23.7	59.39	-35.69	-	-
18	.33225	3.72	Ca	0	0	10.1	13.82	-	-	49.39	-35.57
19	.5865	15.71	Qp	0	0	10.1	25.81	56	-30.19	-	-
20	.5865	8.54	Ca	0	0	10.1	18.64	-	-	46	-27.36
21	.76425	20.68	Qp	0	0	10.1	30.78	56	-25.22	-	-
22	.76425	11.75	Ca	0	0	10.1	21.85	-	-	46	-24.15
23	.81375	22.78	Qp	0	0	10.1	32.88	56	-23.12	-	-
24	.8205	15.07	Ca	0	0	10.1	25.17	-	-	46	-20.83

Qp - Quasi-Peak detector
Ca - CISPR average detection

END OF TEST REPORT

11. SETUP PHOTOS

Please refer to 12607346-EP1V1 for setup photos