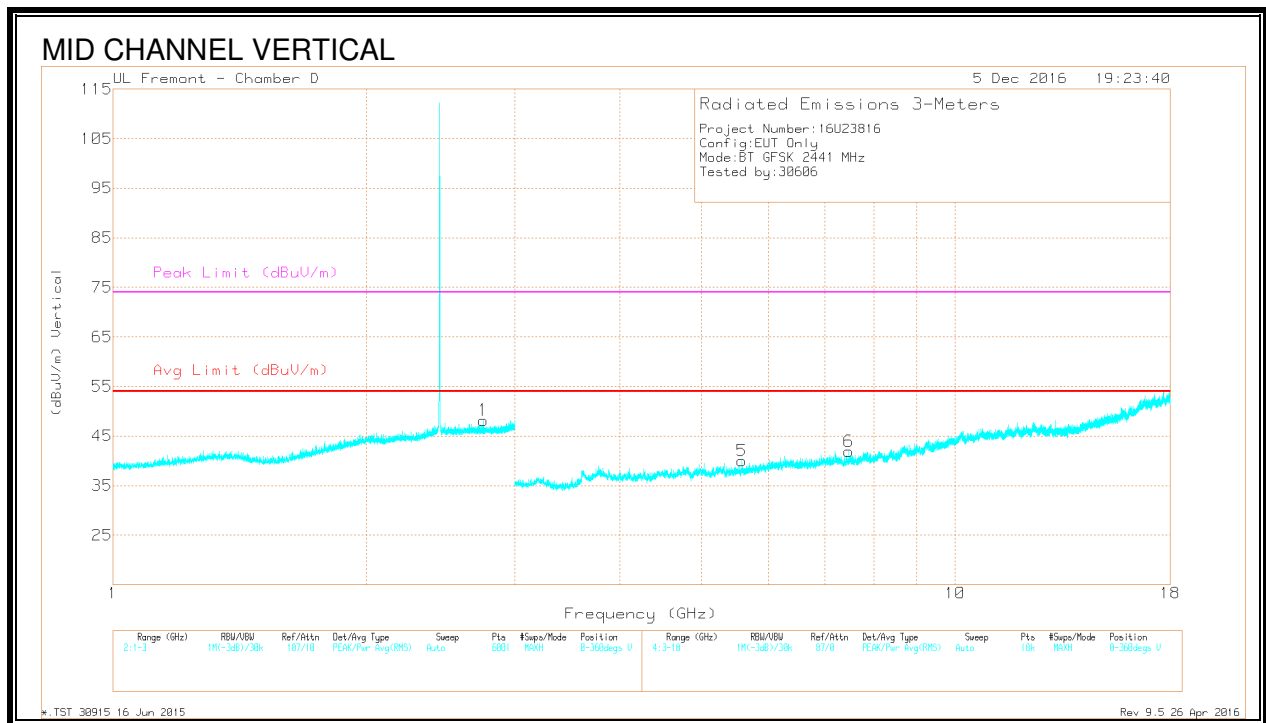
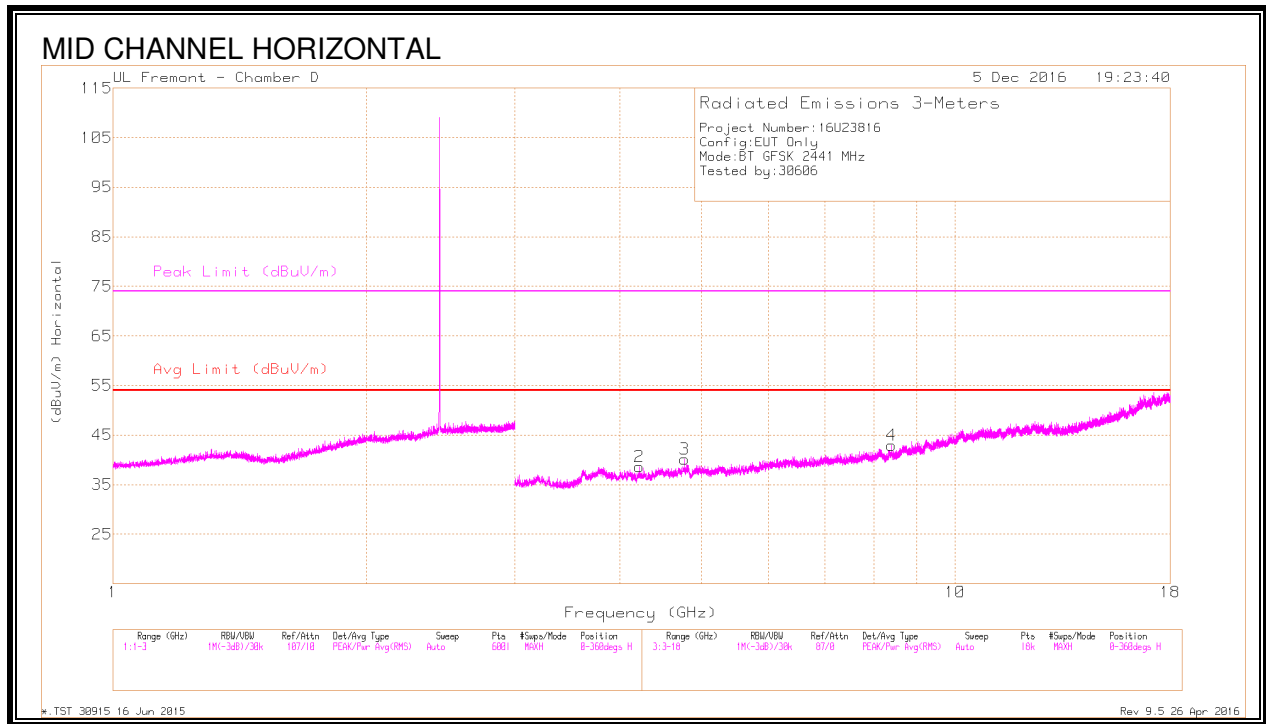


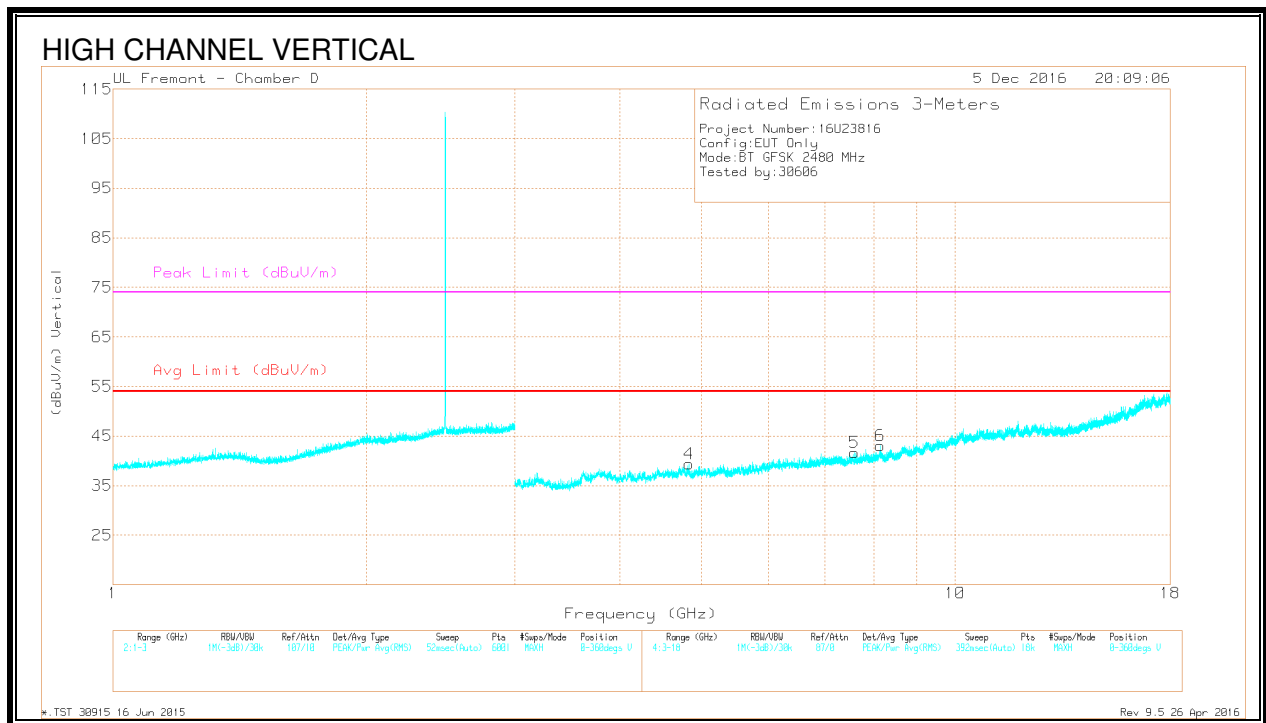
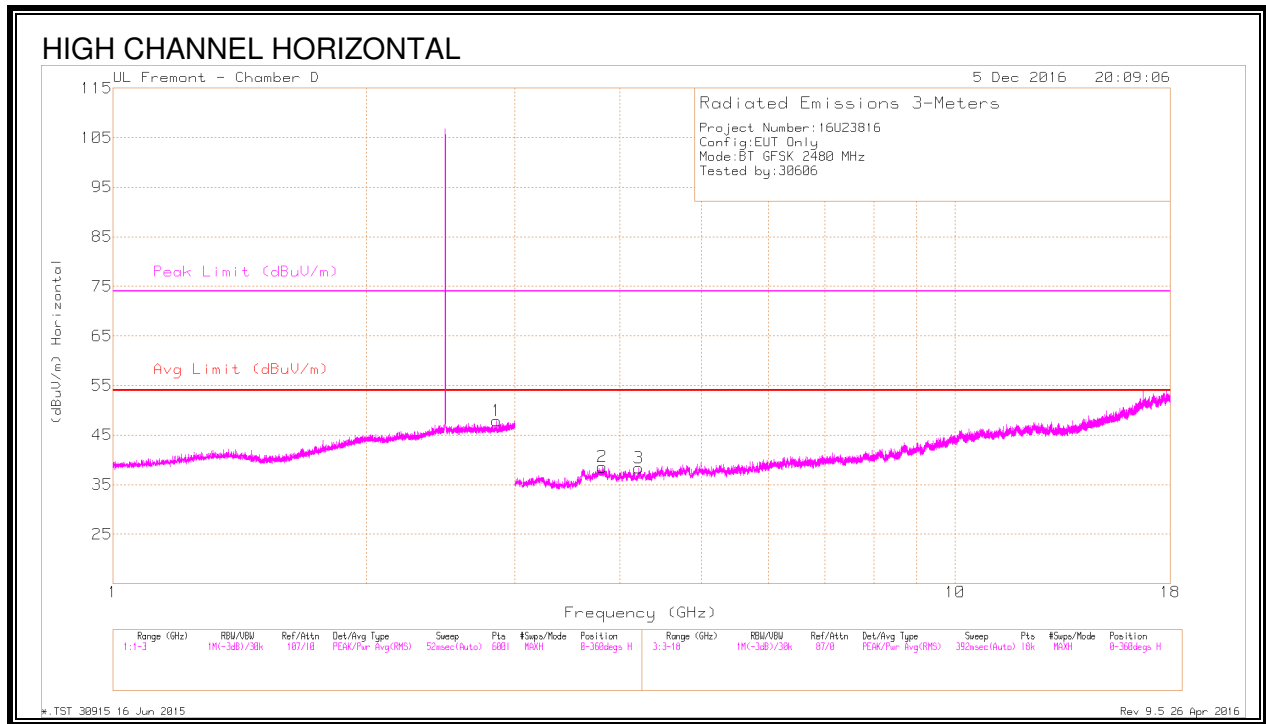


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.755	40.61	PKFH	32.4	-20.4	52.61	-	-	74	-21.39	329	170	V
	* 2.753	29.04	VA1T	32.4	-20.4	41.04	54	-12.96	-	-	329	170	V
2	* 4.212	37.27	PKFH	33.5	-27.5	43.27	-	-	74	-30.73	101	194	H
	* 4.213	26.31	VA1T	33.5	-27.5	32.31	54	-21.69	-	-	101	194	H
3	* 4.77	37.48	PKFH	34	-26.7	44.78	-	-	74	-29.22	176	323	H
	* 4.77	26	VA1T	34	-26.7	33.3	54	-20.7	-	-	176	323	H
4	* 8.401	34.9	PKFH	35.8	-23	47.7	-	-	74	-26.3	305	344	H
	* 8.398	23.88	VA1T	35.8	-23	36.68	54	-17.32	-	-	305	344	H
5	* 7.468	35.67	PKFH	35.7	-24.6	46.77	-	-	74	-27.23	121	282	V
	* 7.468	24.34	VA1T	35.7	-24.6	35.44	54	-18.56	-	-	121	282	V
6	5.579	37.33	PKFH	34.5	-26.3	45.53	-	-	-	-	58	168	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/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	* 2.855	40.63	PKFH	32.3	-20.3	52.63	-	-	74	-21.37	17	117	H
	* 2.854	29	VA1T	32.3	-20.3	41	54	-13	-	-	17	117	H
2	* 3.812	38.76	PKFH	33.6	-28.4	43.96	-	-	74	-30.04	194	274	H
	* 3.813	27.82	VA1T	33.6	-28.4	33.02	54	-20.98	-	-	194	274	H
3	* 4.214	37.87	PKFH	33.5	-27.5	43.87	-	-	74	-30.13	171	334	H
	* 4.212	26.41	VA1T	33.5	-27.5	32.41	54	-21.59	-	-	171	334	H
4	* 4.829	37.81	PKFH	34.1	-27.4	44.51	-	-	74	-29.49	319	152	V
	* 4.829	26.87	VA1T	34.1	-27.4	33.57	54	-20.43	-	-	319	152	V
5	* 7.59	36.8	PKFH	35.8	-25.1	47.5	-	-	74	-26.5	25	157	V
	* 7.591	24.6	VA1T	35.8	-25.1	35.3	54	-18.7	-	-	25	157	V
6	* 8.141	35.21	PKFH	35.8	-23	48.01	-	-	74	-25.99	116	241	V
	* 8.141	23.81	VA1T	35.8	-23	36.61	54	-17.39	-	-	116	241	V

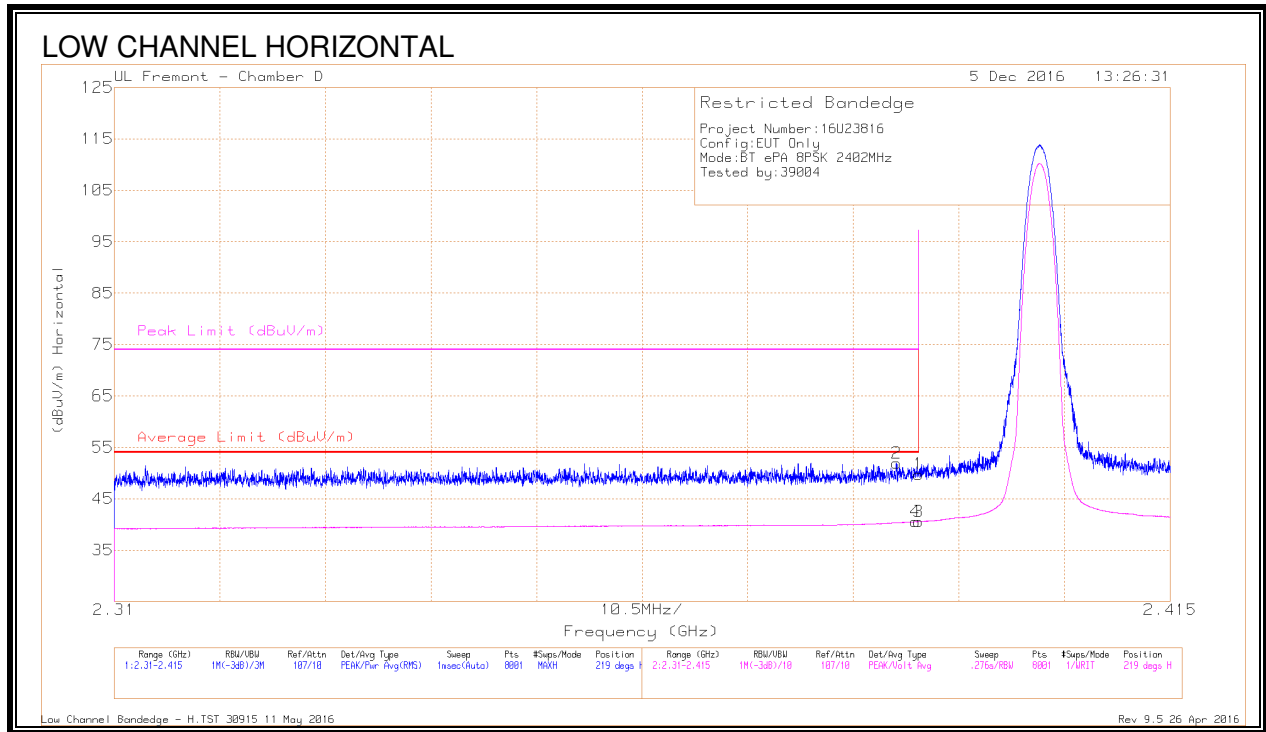
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

9.3.1. RESTRICTED BANDEDGE (LOW CHANNEL)

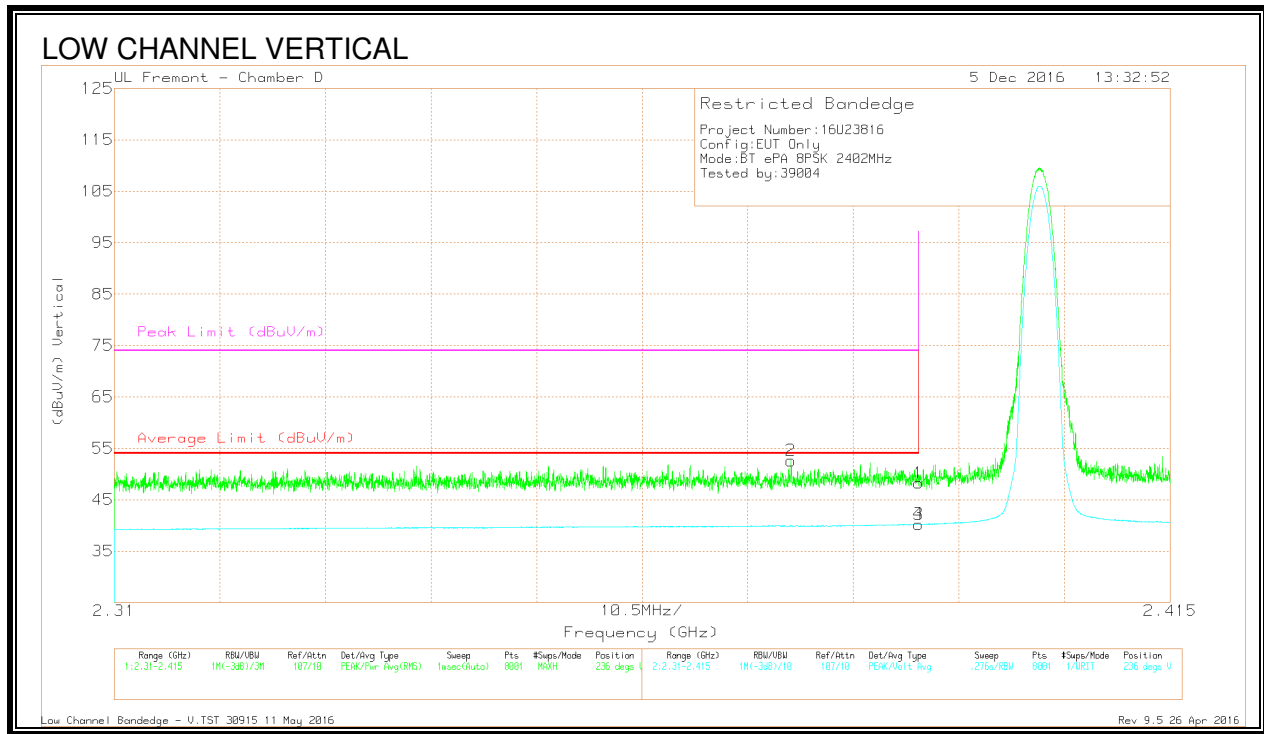


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.37	Pk	32.1	-20.7	49.77	-	-	74	-24.23	219	132	H
2	* 2.388	40.6	Pk	32.1	-20.8	51.9	-	-	74	-22.1	219	132	H
3	* 2.39	29.14	VA1T	32.1	-20.7	40.54	54	-13.46	-	-	219	132	H
4	* 2.39	29.25	VA1T	32.1	-20.8	40.55	54	-13.45	-	-	219	132	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



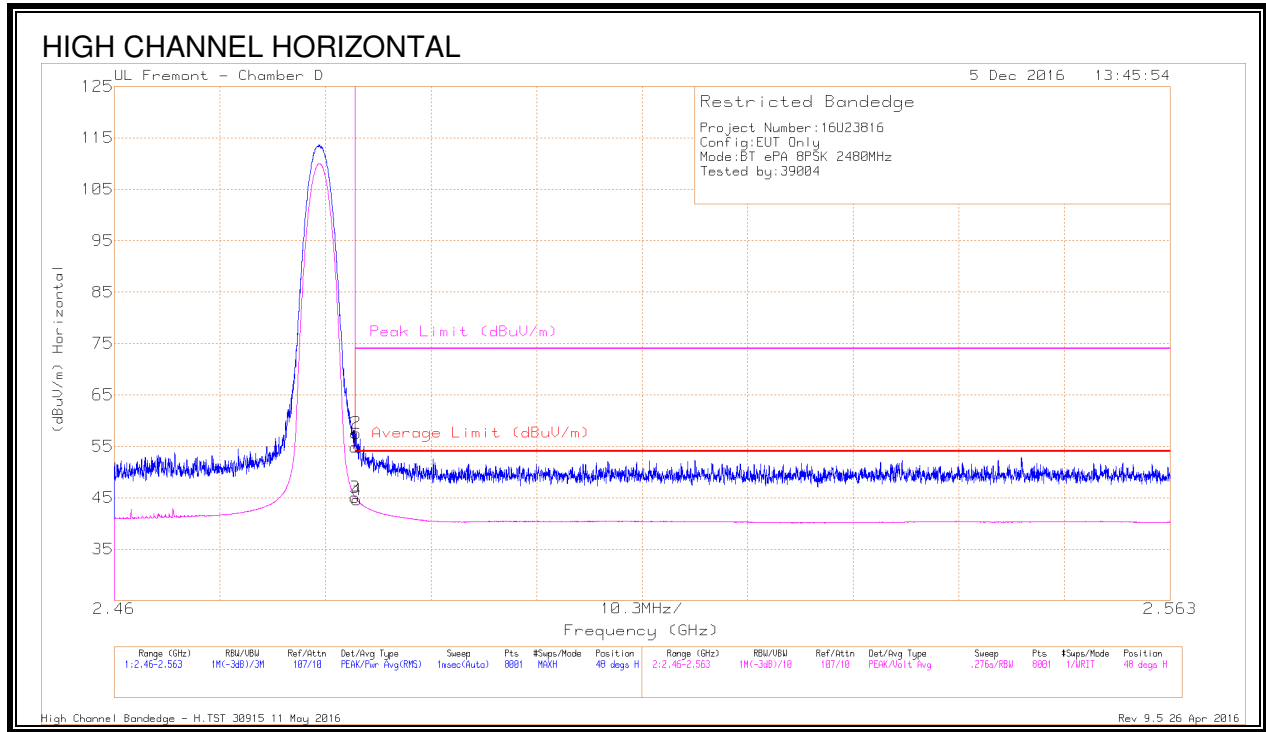
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.86	Pk	32.1	-20.7	48.26	-	-	74	-25.74	236	146	V
2	* 2.377	41.4	Pk	32	-20.8	52.6	-	-	74	-21.4	236	146	V
3	* 2.39	28.82	VA1T	32.1	-20.7	40.22	54	-13.78	-	-	236	145	V
4	* 2.39	28.83	VA1T	32.1	-20.7	40.23	54	-13.77	-	-	236	145	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

9.3.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

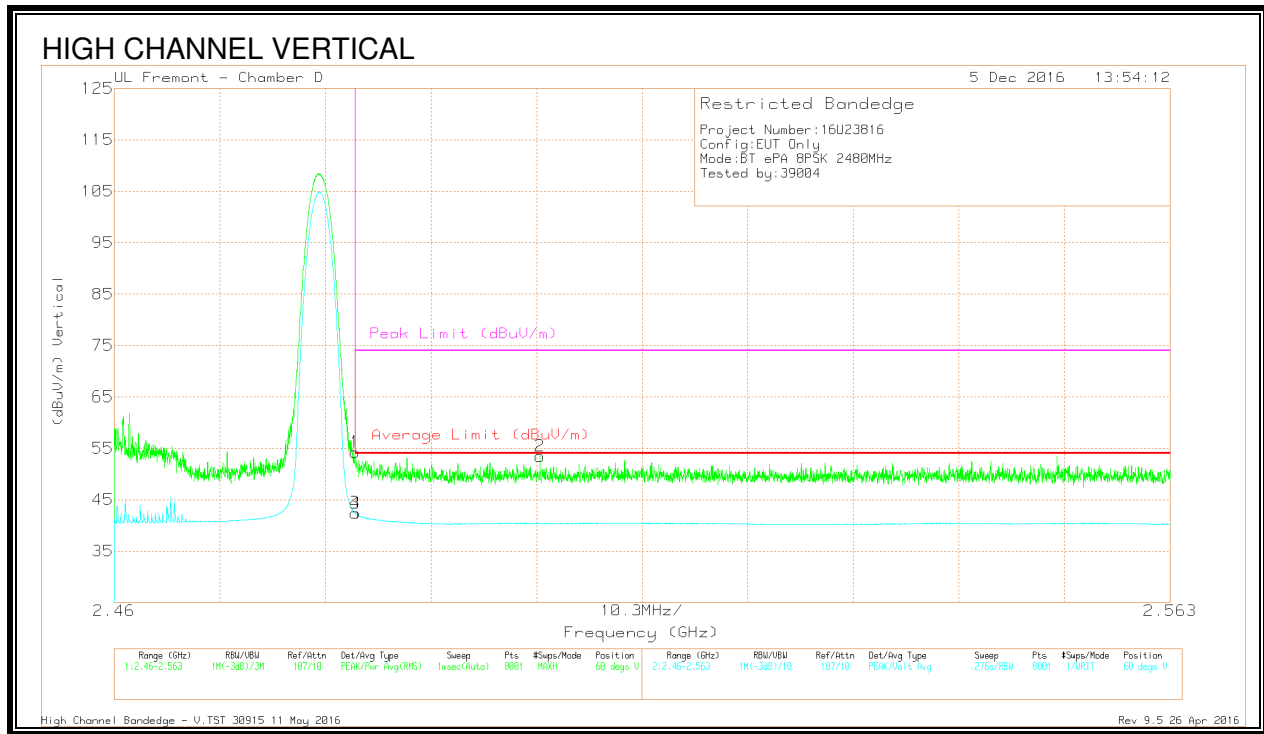


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Fl tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.41	Pk	32.3	-20.8	54.91	-	-	74	-19.09	48	102	H
2	* 2.484	46.08	Pk	32.3	-20.8	57.58	-	-	74	-16.42	48	102	H
3	* 2.484	33.56	VA1T	32.3	-20.8	45.06	54	-8.94	-	-	48	102	H
4	* 2.484	33.05	VA1T	32.3	-20.8	44.55	54	-9.45	-	-	48	102	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



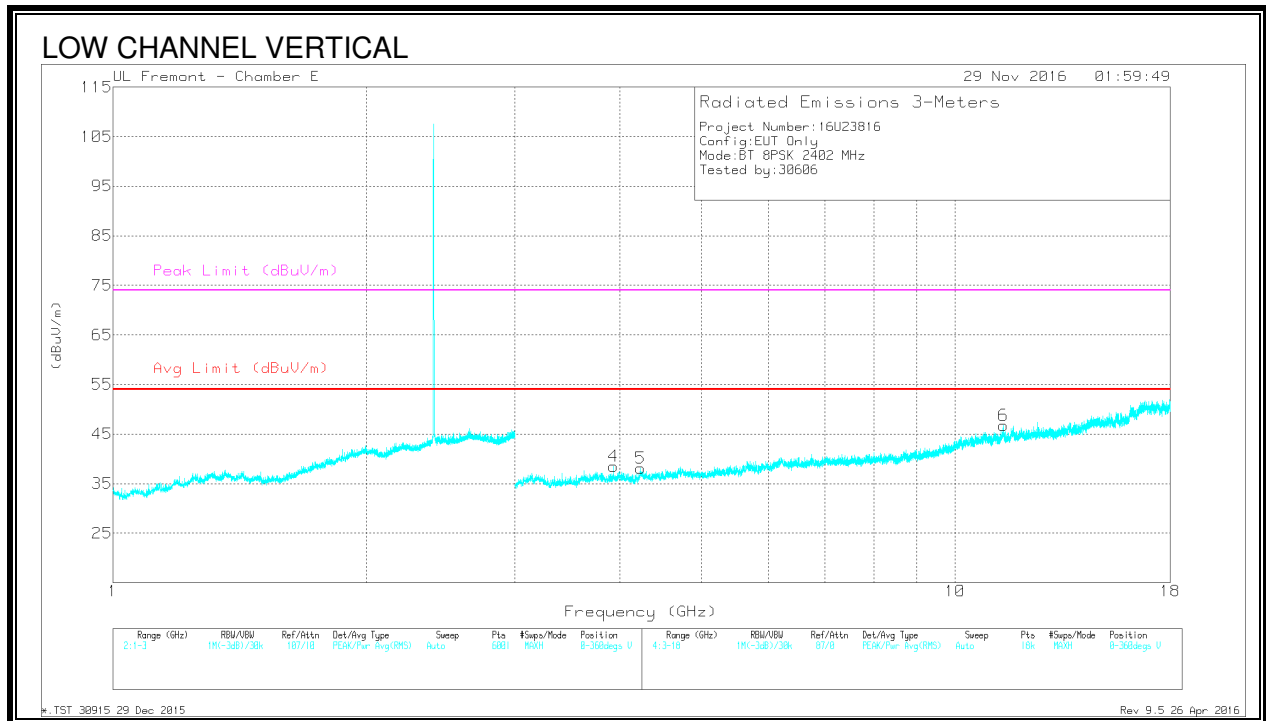
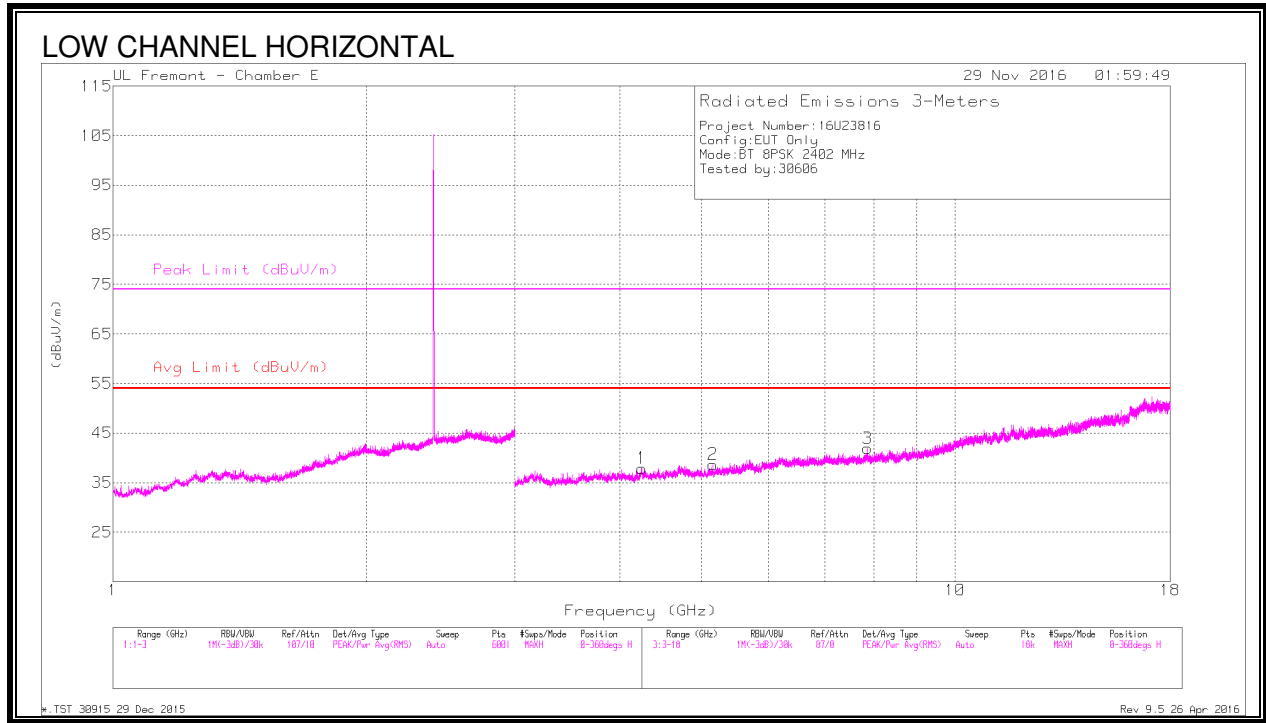
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Fl tr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.75	Pk	32.3	-20.8	54.25	-	-	74	-19.75	60	130	V
3	* 2.484	30.91	VA1T	32.3	-20.8	42.41	54	-11.59	-	-	60	130	V
4	* 2.484	30.87	VA1T	32.3	-20.8	42.37	54	-11.63	-	-	60	130	V
2	2.502	41.86	Pk	32.3	-20.7	53.46	-	-	74	-20.54	60	130	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

9.3.3. HARMONICS AND SPURIOUS EMISSIONS

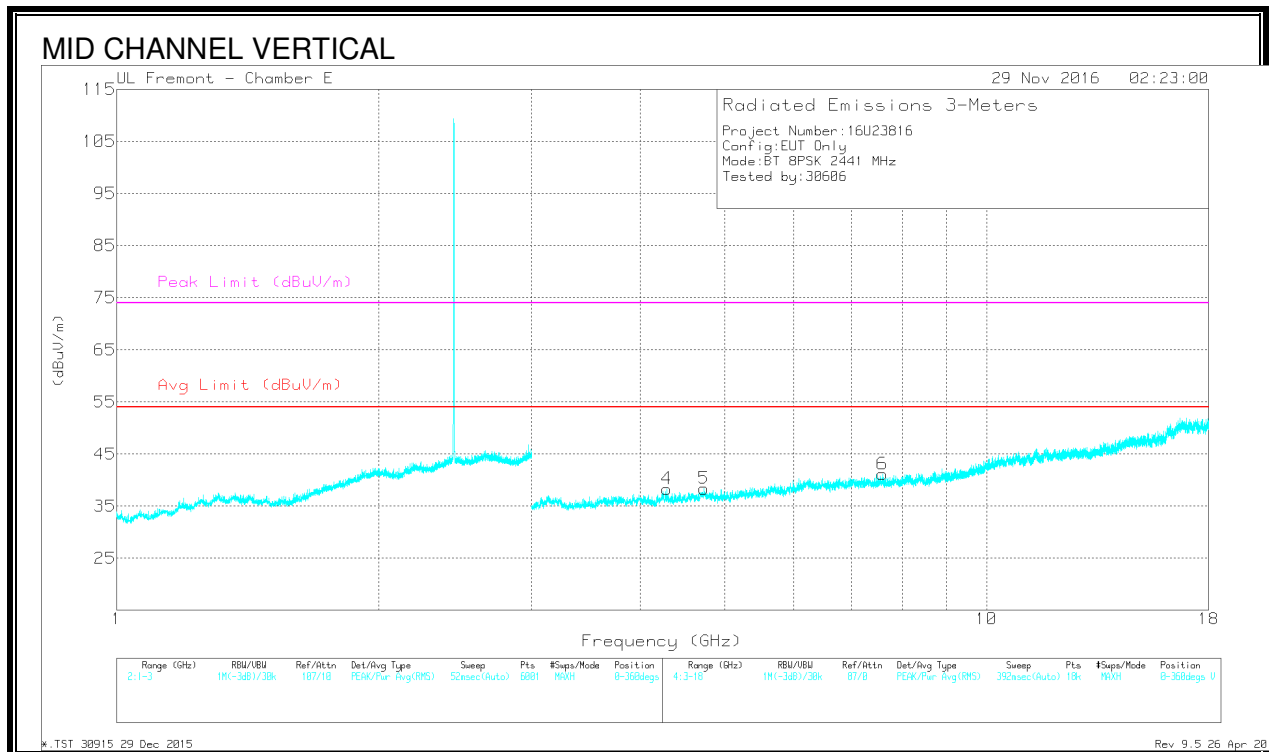
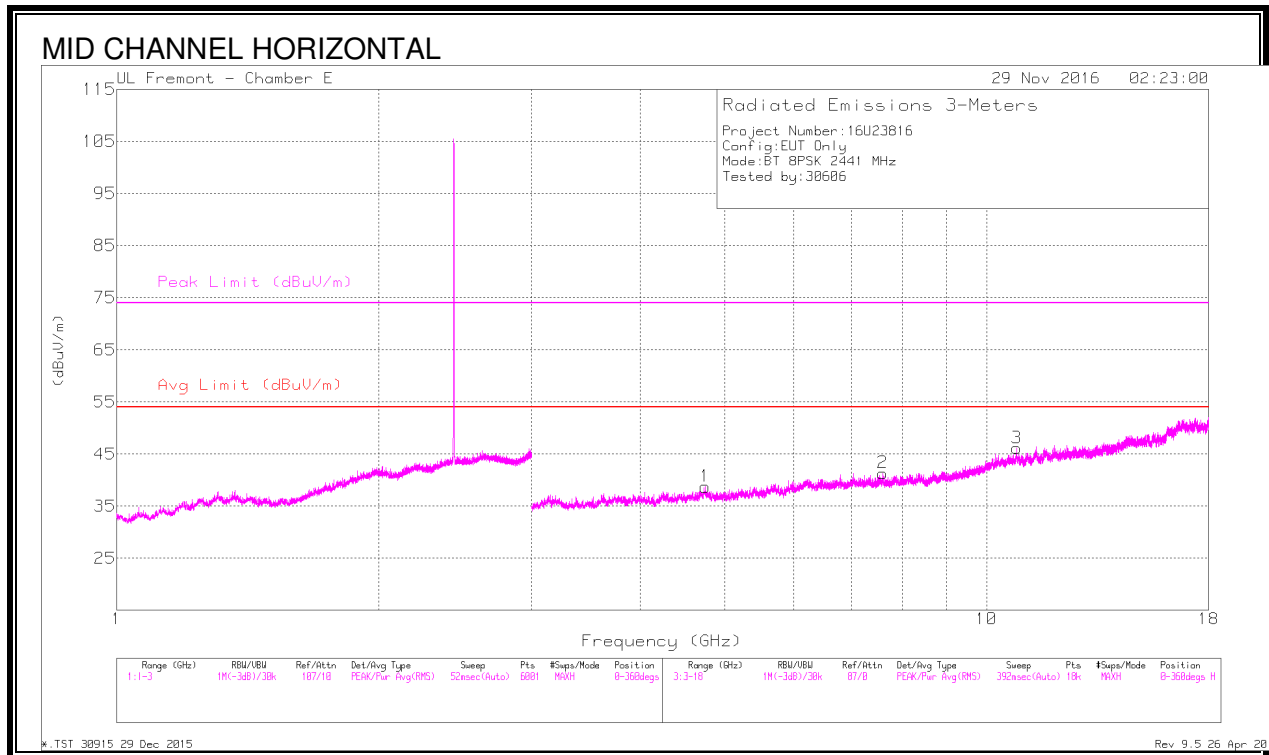


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.244	39.16	PKFH	33.3	-28.6	43.86	-	-	74	-30.14	268	100	H
	* 4.242	27.51	VA1T	33.3	-28.6	32.21	54	-21.79	-	-	268	100	H
4	* 3.93	39.27	PKFH	33.3	-29.4	43.17	-	-	74	-30.83	327	200	V
	* 3.929	27.9	VA1T	33.3	-29.5	31.7	54	-22.3	-	-	327	200	V
5	* 4.232	39.78	PKFH	33.3	-28.9	44.18	-	-	74	-29.82	317	200	V
	* 4.23	27.9	VA1T	33.3	-29	32.2	54	-21.8	-	-	317	200	V
6	* 11.412	35.55	PKFH	38.2	-21.8	51.95	-	-	74	-22.05	302	200	V
	* 11.412	24.07	VA1T	38.2	-21.8	40.47	54	-13.53	-	-	302	200	V
2	5.152	28.33	VA1T	34.1	-30.1	32.33	-	-	-	-	330	200	H
	5.155	39.6	PKFH	34.1	-30.1	43.6	-	-	-	-	330	200	H
3	7.868	25.43	VA1T	35.7	-25.9	35.23	-	-	-	-	336	200	H
	7.869	37.53	PKFH	35.7	-25.9	47.33	-	-	-	-	336	200	H

* - 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

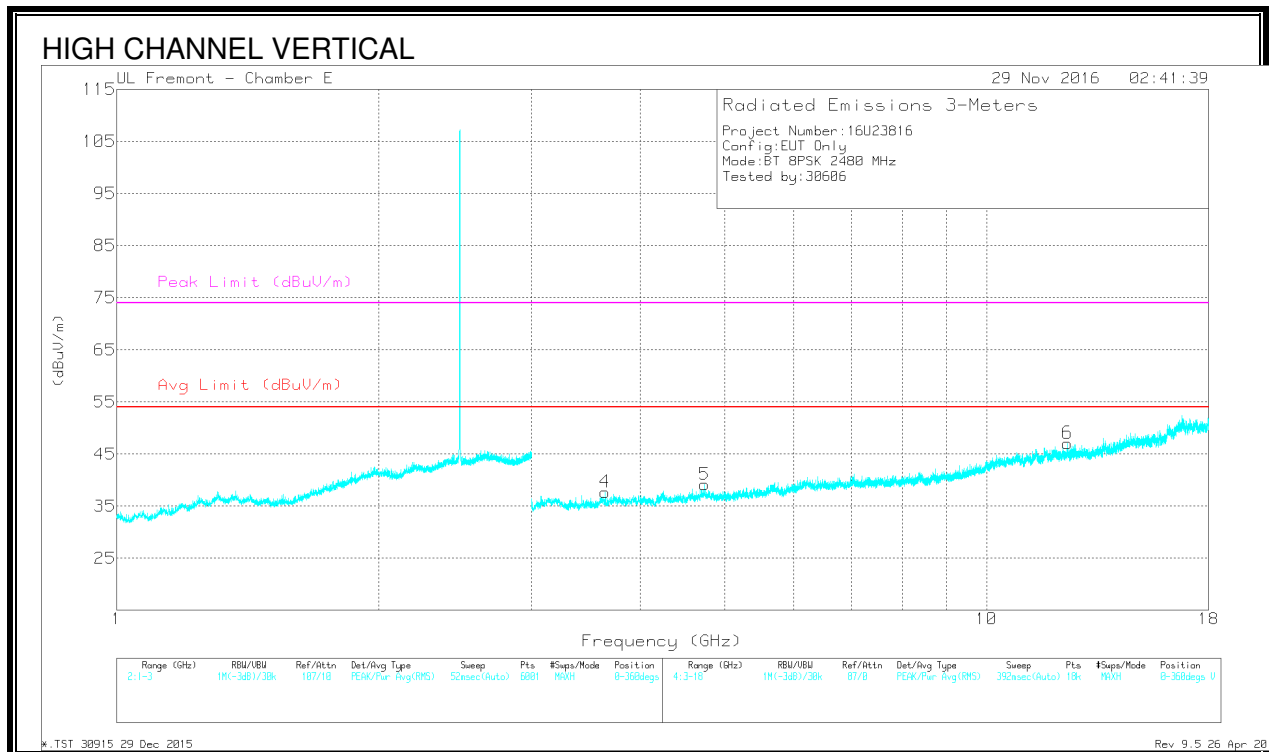
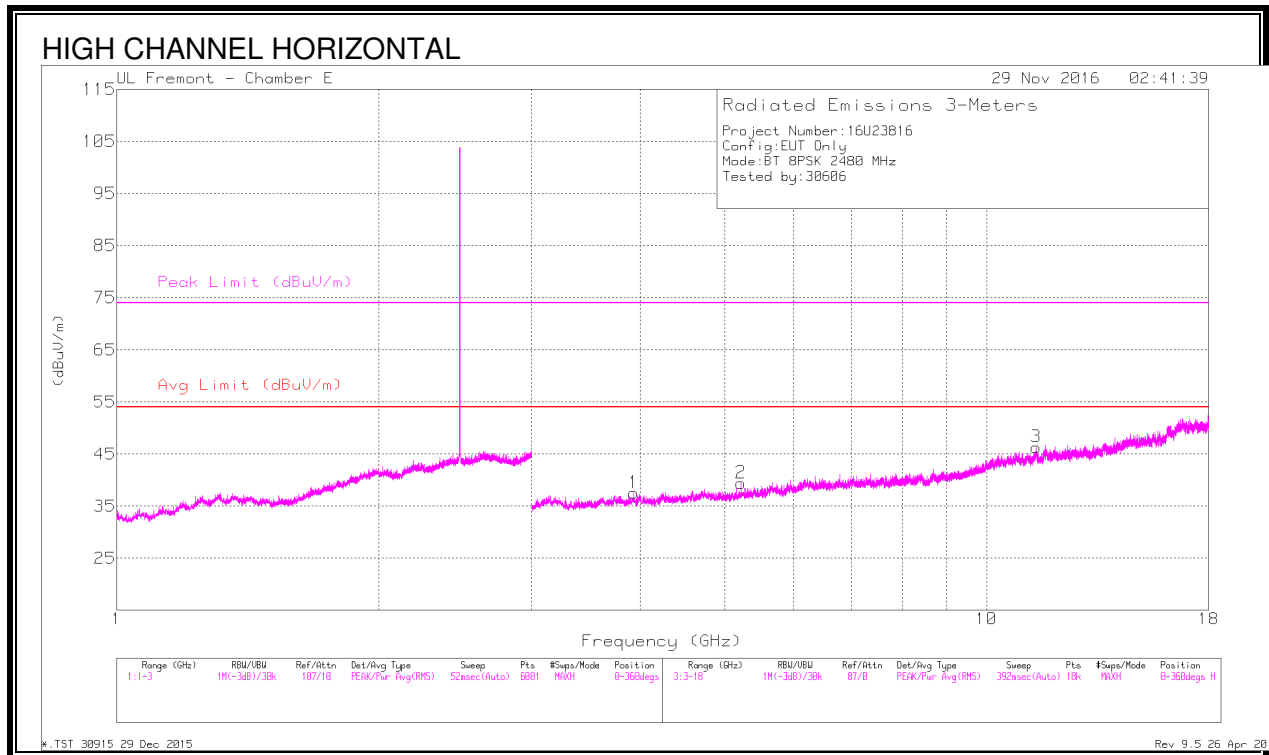


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.746	39.01	PKFH	34	-29.1	43.91	-	-	74	-30.09	313	200	H
	* 4.746	27.81	VA1T	34	-29.1	32.71	54	-21.29	-	-	313	200	H
2	* 7.598	36.23	PKFH	35.7	-25.9	46.03	-	-	74	-27.97	334	101	H
	* 7.599	25.33	VA1T	35.7	-25.9	35.13	54	-18.87	-	-	334	101	H
3	* 10.831	35.67	PKFH	37.9	-22.4	51.17	-	-	74	-22.83	243	200	H
	* 10.833	24.28	VA1T	37.9	-22.4	39.78	54	-14.22	-	-	243	200	H
4	* 4.29	39.43	PKFH	33.3	-29.5	43.23	-	-	74	-30.77	273	101	V
	* 4.291	28.1	VA1T	33.3	-29.5	31.9	54	-22.1	-	-	273	101	V
5	* 4.73	38.87	PKFH	34	-29	43.87	-	-	74	-30.13	345	200	V
	* 4.732	27.86	VA1T	34	-29	32.86	54	-21.14	-	-	345	200	V
6	* 7.59	36.4	PKFH	35.7	-25.7	46.4	-	-	74	-27.6	281	101	V
	* 7.593	25.29	VA1T	35.7	-25.6	35.39	54	-18.61	-	-	281	101	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.929	38.67	PKFH	33.3	-29.5	42.47	-	-	74	-31.53	113	101	H
	* 3.93	27.67	VA1T	33.3	-29.4	31.57	54	-22.43	-	-	113	101	H
3	* 11.41	36.35	PKFH	38.2	-21.7	52.85	-	-	74	-21.15	32	101	H
	* 11.407	24.06	VA1T	38.2	-21.6	40.66	54	-13.34	-	-	32	101	H
4	* 3.646	39.09	PKFH	33.1	-30.2	41.99	-	-	74	-32.01	44	200	V
	* 3.644	28.13	VA1T	33.1	-30.2	31.03	54	-22.97	-	-	44	200	V
5	* 4.746	38.54	PKFH	34	-29.1	43.44	-	-	74	-30.56	101	101	V
	* 4.742	28	VA1T	34	-29	33	54	-21	-	-	101	101	V
6	* 12.391	36.17	PKFH	39	-23.1	52.07	-	-	74	-21.93	34	200	V
	* 12.391	24.98	VA1T	39	-23.1	40.88	54	-13.12	-	-	34	200	V
2	5.219	28.25	VA1T	34.3	-29.9	32.65	-	-	-	-	46	101	H
	5.22	39.81	PKFH	34.3	-29.9	44.21	-	-	-	-	46	101	H

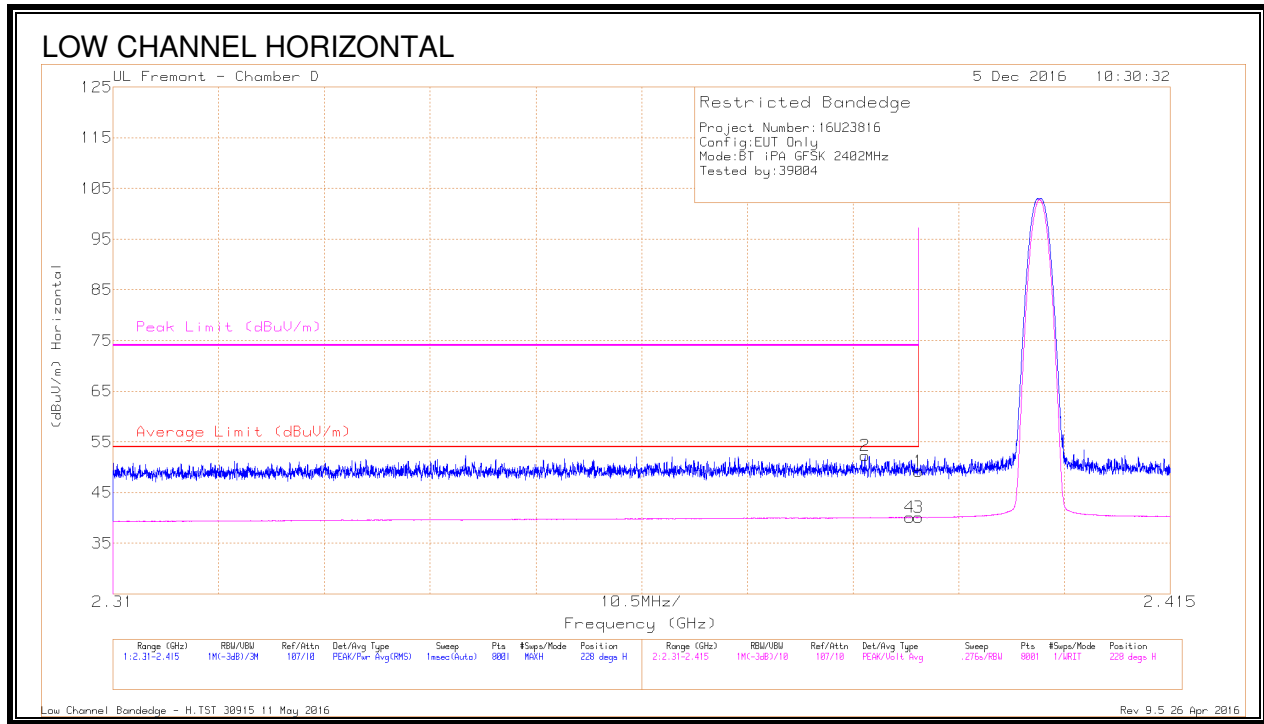
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

9.4. LOW POWER BASIC DATA RATE GFSK MODULATION

9.4.1. RESTRICTED BANDEDGE (LOW CHANNEL)



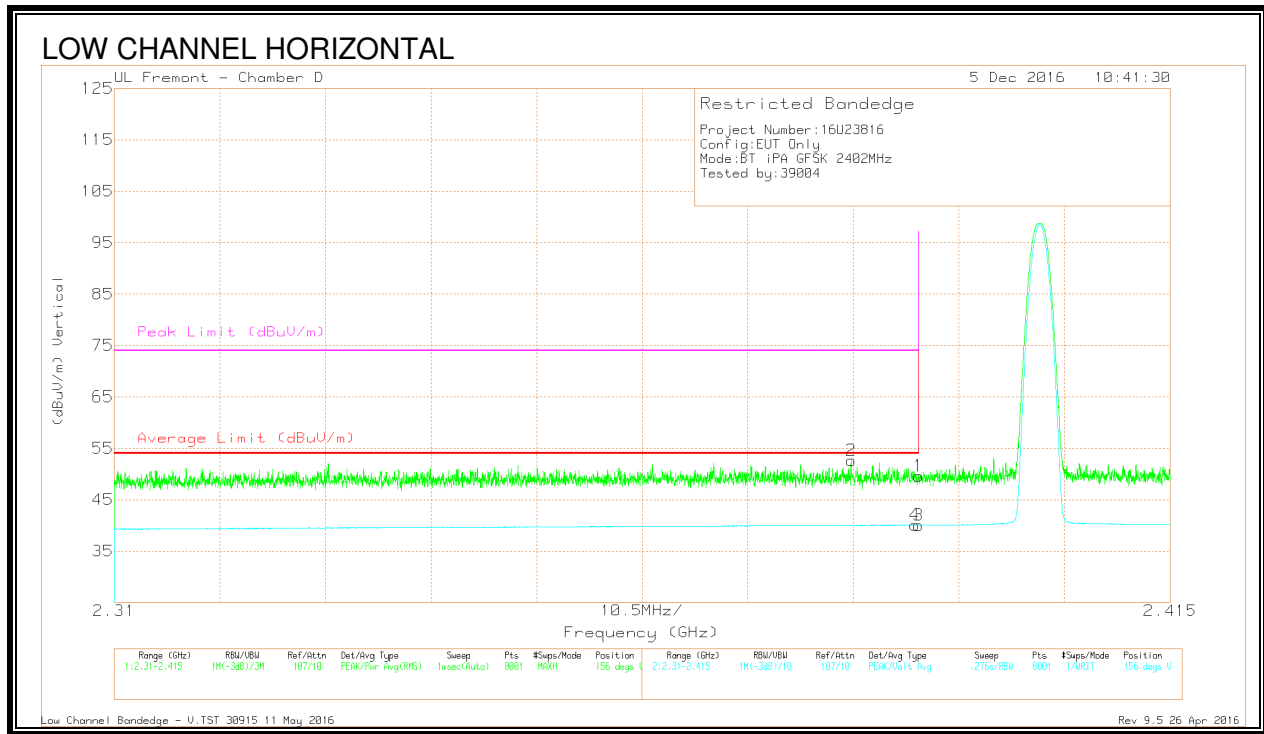
Trace Markers

Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Fitr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimut h (Degs)	Height (cm)	Polarit y
1	* 2.39	37.75	Pk	32.1	-20.7	49.15	-	-	74	-24.85	228	291	H
2	* 2.385	41.03	Pk	32.1	-20.8	52.33	-	-	74	-21.67	228	291	H
3	* 2.39	28.66	VA1T	32.1	-20.7	40.06	54	-13.94	-	-	228	291	H
4	* 2.389	28.79	VA1T	32.1	-20.8	40.09	54	-13.91	-	-	228	291	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



Trace Markers

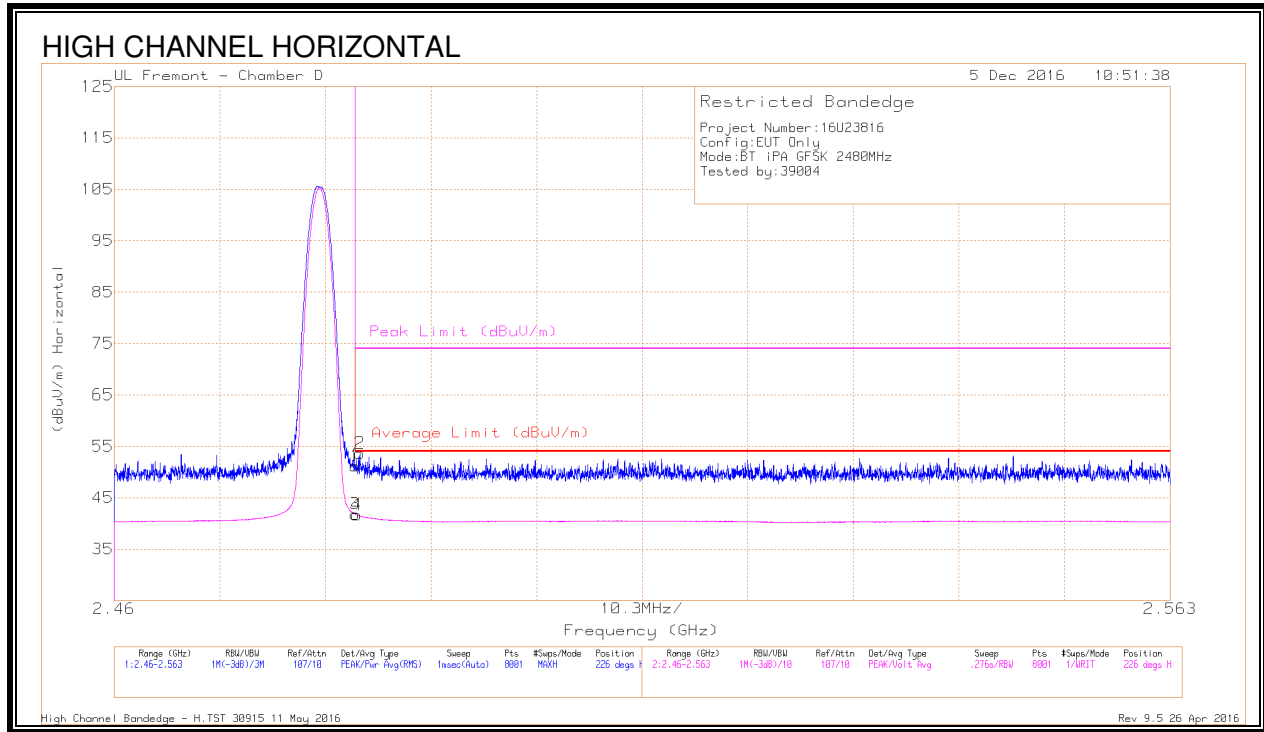
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.22	Pk	32.1	-20.7	49.62	-	-	74	-24.38	156	327	V
2	* 2.383	41.33	Pk	32.1	-20.8	52.63	-	-	74	-21.37	156	327	V
3	* 2.39	28.62	VA1T	32.1	-20.7	40.02	54	-13.98	-	-	156	327	V
4	* 2.39	28.78	VA1T	32.1	-20.8	40.08	54	-13.92	-	-	156	327	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

9.4.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



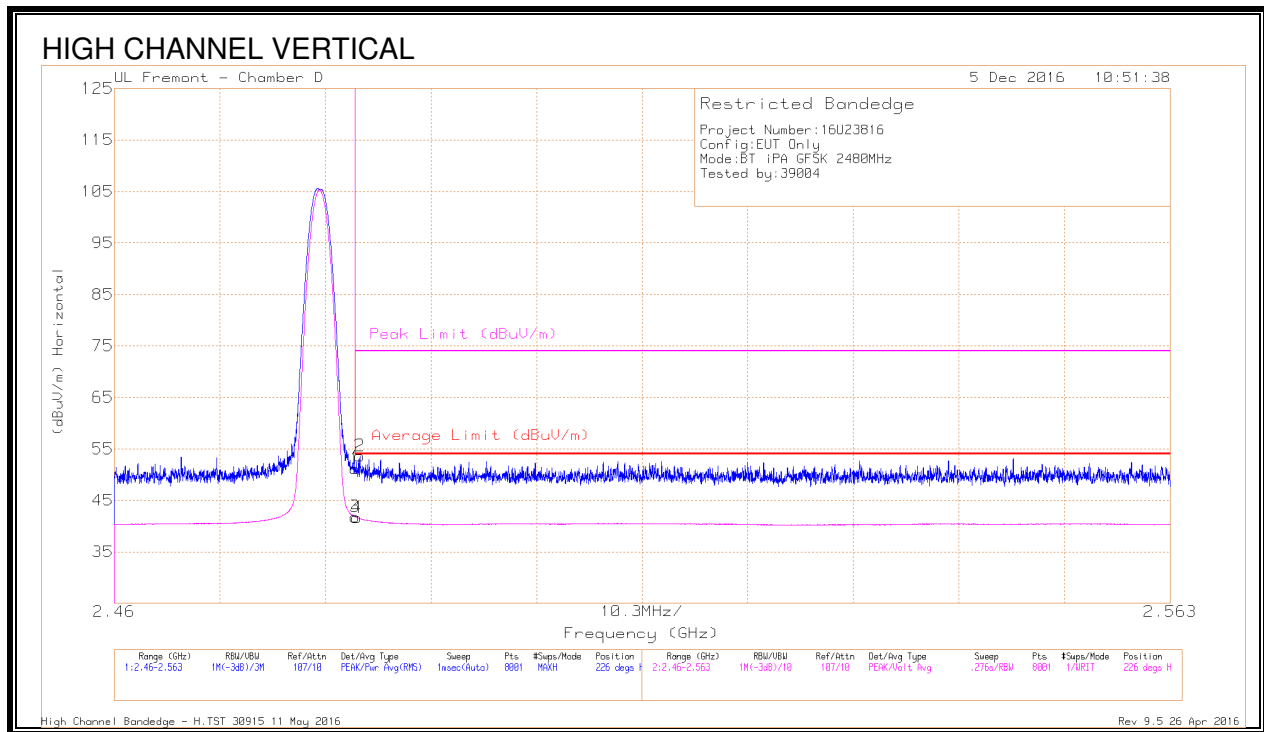
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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	* 2.484	39.73	Pk	32.3	-20.8	51.23	-	-	74	-22.77	226	122	H
2	* 2.484	42.14	Pk	32.3	-20.8	53.64	-	-	74	-20.36	226	122	H
3	* 2.484	30.33	VA1T	32.3	-20.8	41.83	54	-12.17	-	-	226	122	H
4	* 2.484	30.17	VA1T	32.3	-20.8	41.67	54	-12.33	-	-	226	122	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



Trace Markers

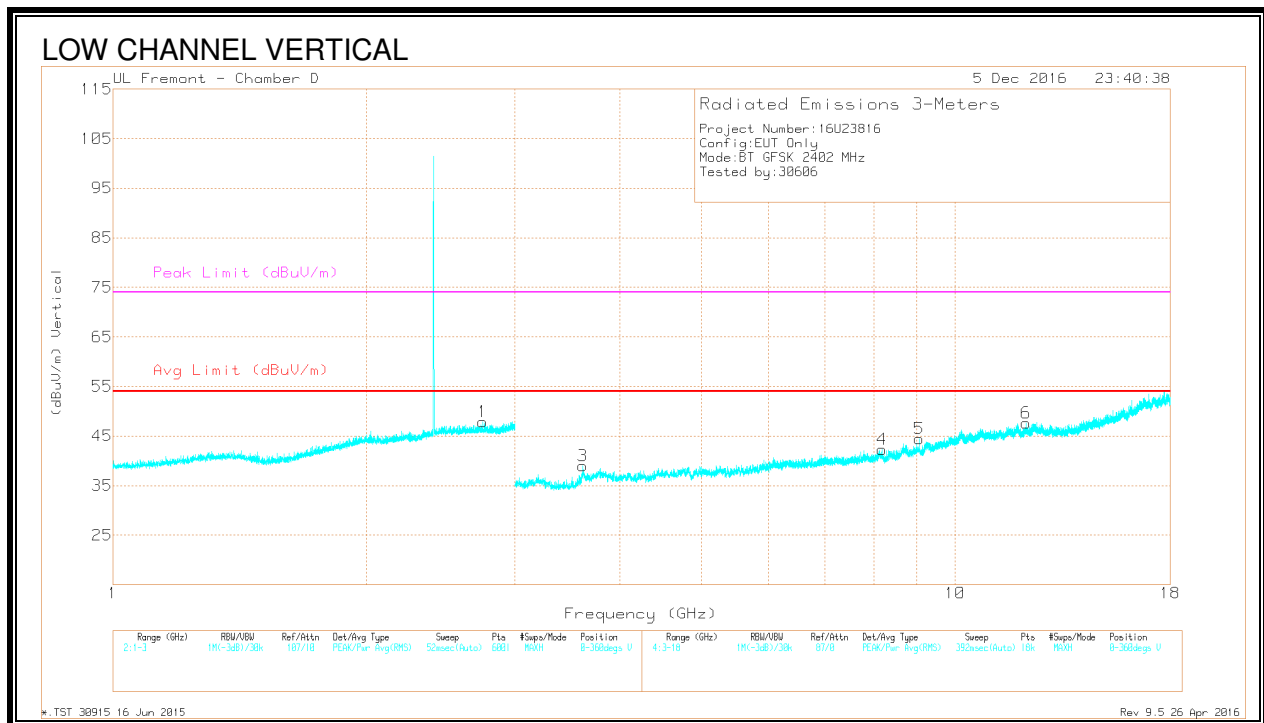
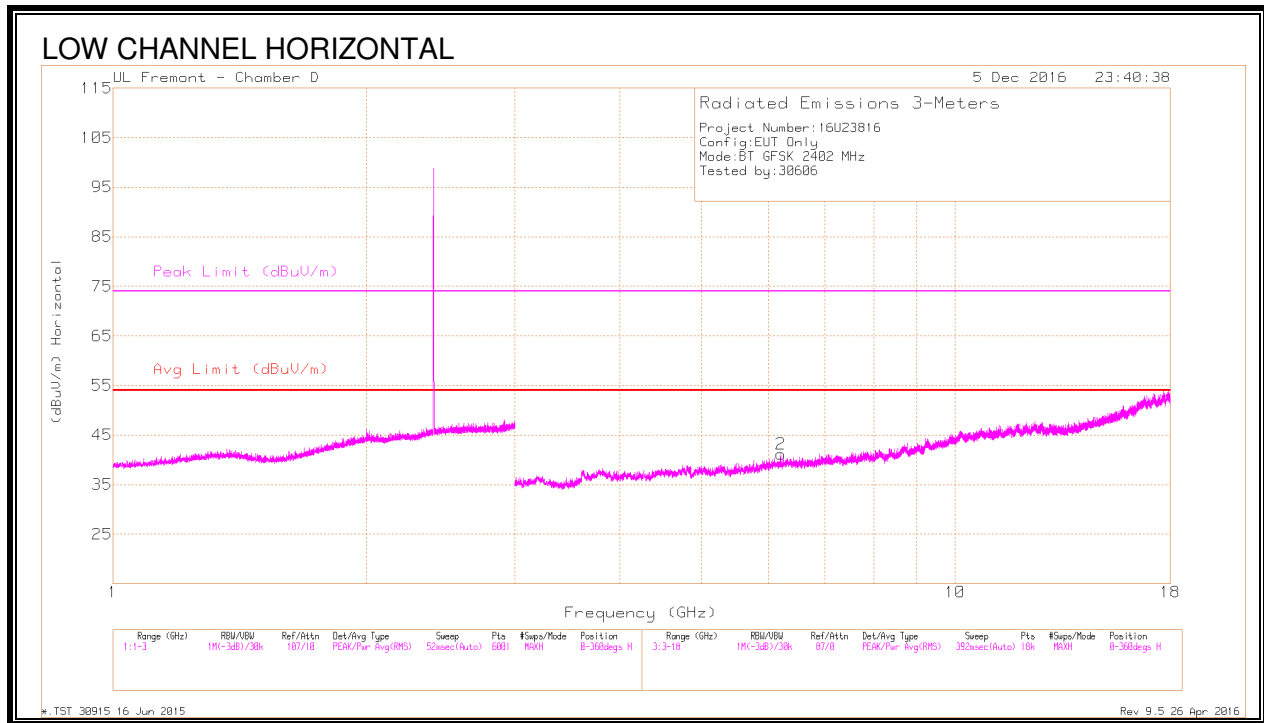
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39	Pk	32.3	-20.8	50.5	-	-	74	-23.5	243	137	V
3	* 2.484	29.44	VA1T	32.3	-20.8	40.94	54	-13.06	-	-	243	137	V
4	* 2.484	29.43	VA1T	32.3	-20.8	40.93	54	-13.07	-	-	243	137	V
2	2.521	41.94	Pk	32.3	-20.7	53.54	-	-	74	-20.46	243	137	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

9.4.3. HARMONICS AND SPURIOUS EMISSIONS

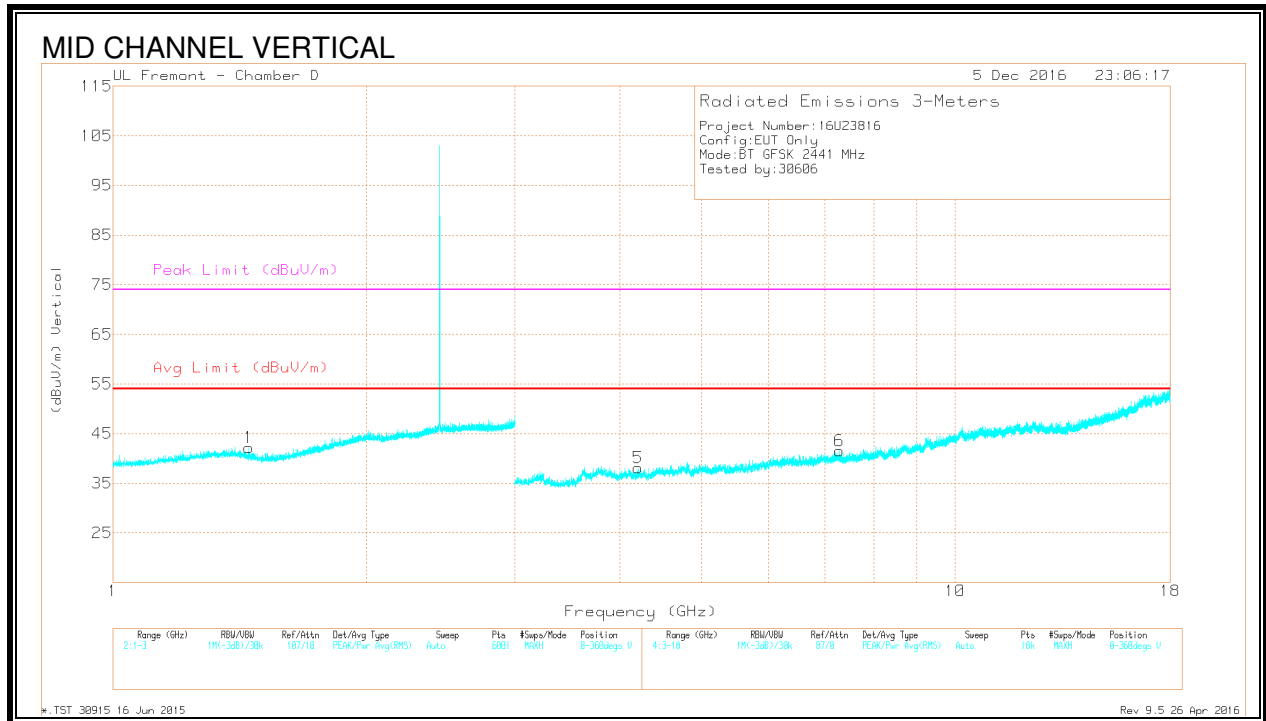
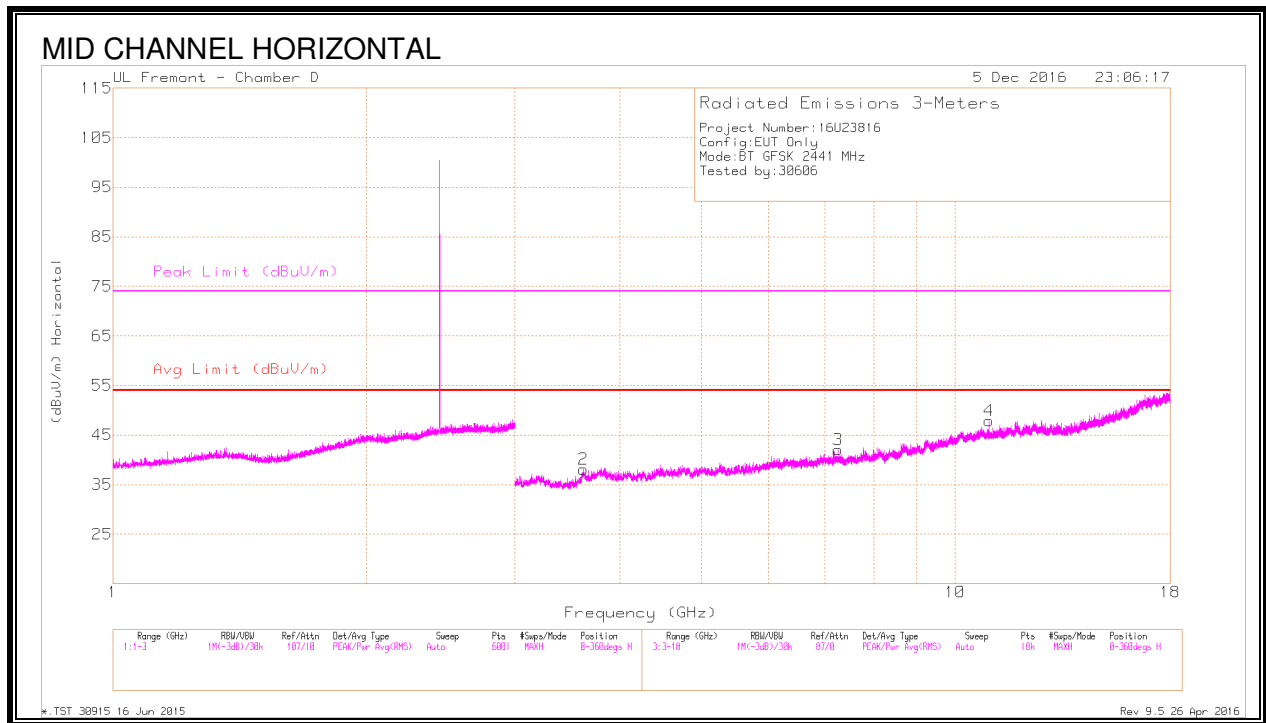


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.747	41.36	PKFH	32.4	-20.4	53.36	-	-	74	-20.64	303	330	V
	* 2.747	29.05	VA1T	32.4	-20.4	41.05	54	-12.95	-	-	303	330	V
3	* 3.611	41.44	PKFH	33.3	-28.4	46.34	-	-	74	-27.66	160	111	V
	* 3.614	27.76	VA1T	33.3	-28.3	32.76	54	-21.24	-	-	160	111	V
4	* 8.184	35.49	PKFH	35.8	-23.3	47.99	-	-	74	-26.01	197	253	V
	* 8.187	23.77	VA1T	35.8	-23.4	36.17	54	-17.83	-	-	197	253	V
5	* 9.055	34.79	PKFH	36.2	-21.6	49.39	-	-	74	-24.61	47	354	V
	* 9.054	23	VA1T	36.1	-21.6	37.5	54	-16.5	-	-	47	354	V
6	* 12.146	34.97	PKFH	39	-20.6	53.37	-	-	74	-20.63	169	400	V
	* 12.145	23.38	VA1T	39	-20.6	41.78	54	-12.22	-	-	169	400	V
2	6.207	37.29	PKFH	35.6	-26.7	46.19	-	-	-	-	46	300	H

* - 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

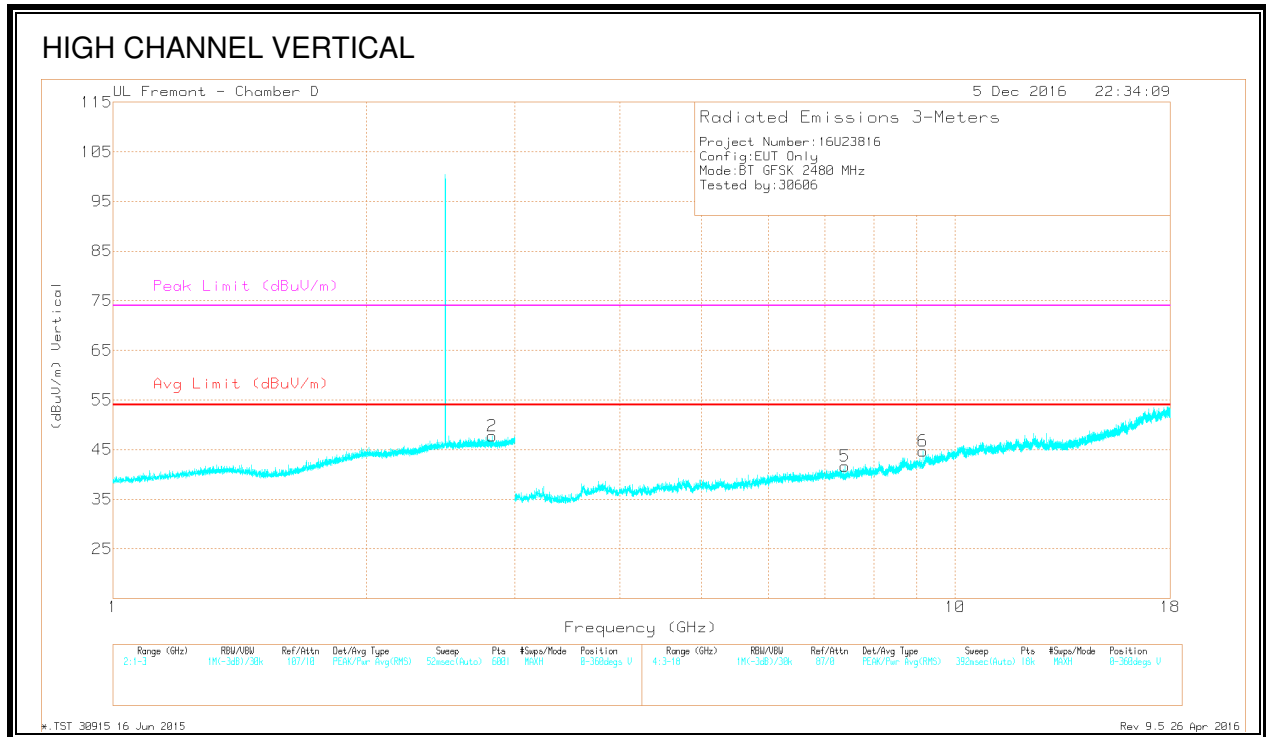
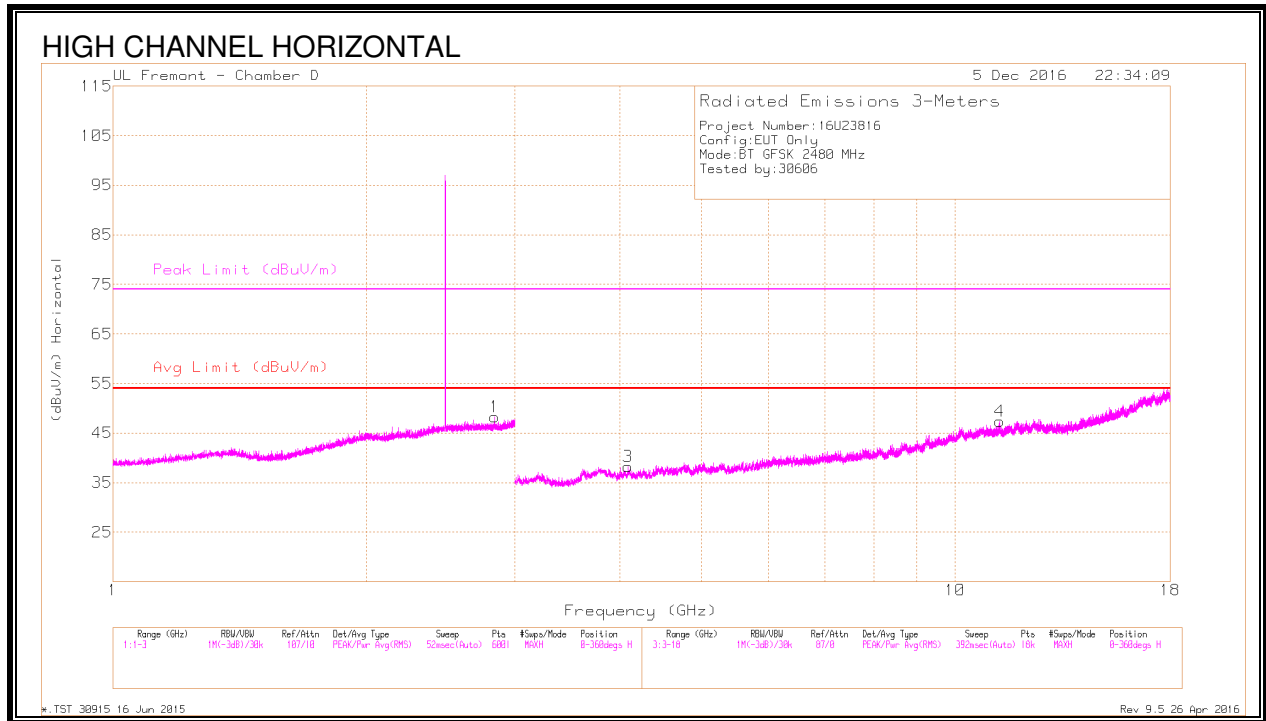


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.449	40.73	PKFH	28.4	-22	47.13	-	-	74	-26.87	360	328	V
	* 1.449	29.11	VA1T	28.4	-22	35.51	54	-18.49	-	-	360	328	V
2	* 3.615	38.99	PKFH	33.3	-28.3	43.99	-	-	74	-30.01	28	194	H
	* 3.616	27.93	VA1T	33.3	-28.4	32.83	54	-21.17	-	-	28	194	H
3	* 7.257	36.36	PKFH	35.7	-24.9	47.16	-	-	74	-26.84	83	111	H
	* 7.257	24.85	VA1T	35.7	-24.9	35.65	54	-18.35	-	-	83	111	H
4	* 10.961	35.02	PKFH	38	-21	52.02	-	-	74	-21.98	199	266	H
	* 10.958	23.5	VA1T	38	-21	40.5	54	-13.5	-	-	199	266	H
5	* 4.199	38.22	PKFH	33.5	-27.6	44.12	-	-	74	-29.88	228	363	V
	* 4.2	26.32	VA1T	33.5	-27.6	32.22	54	-21.78	-	-	228	363	V
6	* 7.289	35.4	PKFH	35.7	-24.8	46.3	-	-	74	-27.7	244	115	V
	* 7.288	24.51	VA1T	35.7	-24.8	35.41	54	-18.59	-	-	244	115	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/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	* 2.838	40.98	PKFH	32.3	-20.2	53.08	-	-	74	-20.92	314	233	H
	* 2.84	29.03	VA1T	32.3	-20.2	41.13	54	-12.87	-	-	314	233	H
2	* 2.821	40.68	PKFH	32.3	-20.3	52.68	-	-	74	-21.32	314	321	V
	* 2.818	28.86	VA1T	32.3	-20.2	40.96	54	-13.04	-	-	314	321	V
3	* 4.092	38.87	PKFH	33.6	-28.1	44.37	-	-	74	-29.63	49	172	H
	* 4.093	27.34	VA1T	33.6	-28.1	32.84	54	-21.16	-	-	49	172	H
4	* 11.291	35.4	PKFH	38.3	-20.8	52.9	-	-	74	-21.1	222	128	H
	* 11.29	23.51	VA1T	38.3	-20.8	41.01	54	-12.99	-	-	222	128	H
5	* 7.396	36.66	PKFH	35.6	-25	47.26	-	-	74	-26.74	136	156	V
	* 7.393	24.37	VA1T	35.6	-25	34.97	54	-19.03	-	-	136	156	V
6	* 9.154	34.93	PKFH	36.2	-22.9	48.23	-	-	74	-25.77	248	166	V
	* 9.155	23.85	VA1T	36.3	-22.9	37.25	54	-16.75	-	-	248	166	V

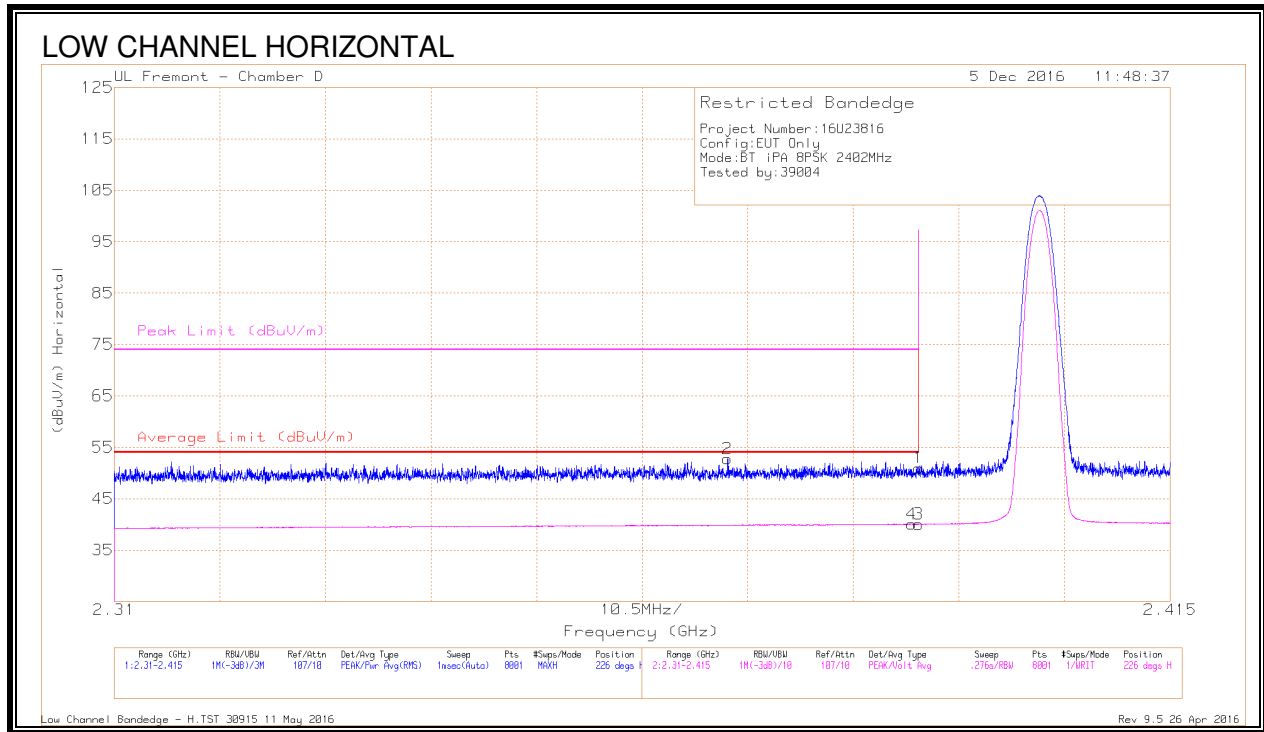
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

9.5. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

9.5.1. RESTRICTED BANDEDGE (LOW CHANNEL)

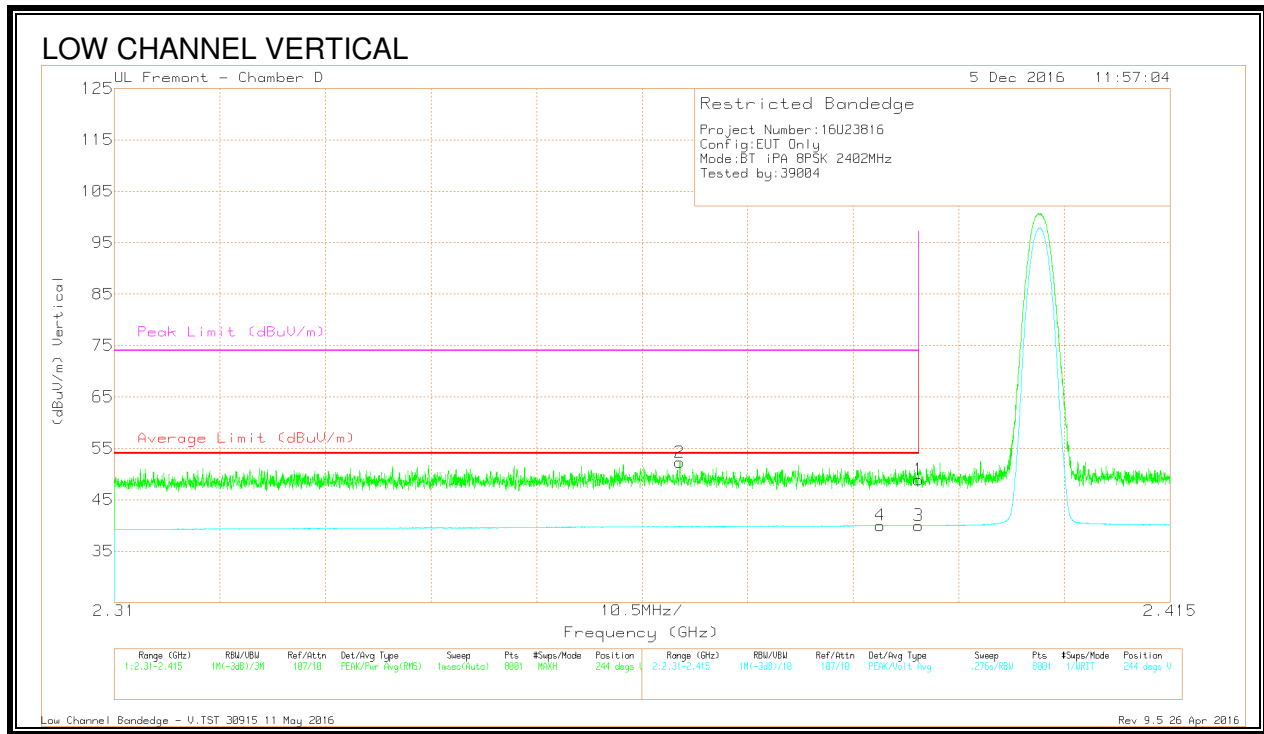


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.59	Pk	32.1	-20.7	50.99	-	-	74	-23.01	226	355	H
2	* 2.371	41.66	Pk	32	-20.9	52.76	-	-	74	-21.24	226	355	H
3	* 2.39	28.62	VA1T	32.1	-20.7	40.02	54	-13.98	-	-	226	355	H
4	* 2.389	28.77	VA1T	32.1	-20.8	40.07	54	-13.93	-	-	226	355	H

* - 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



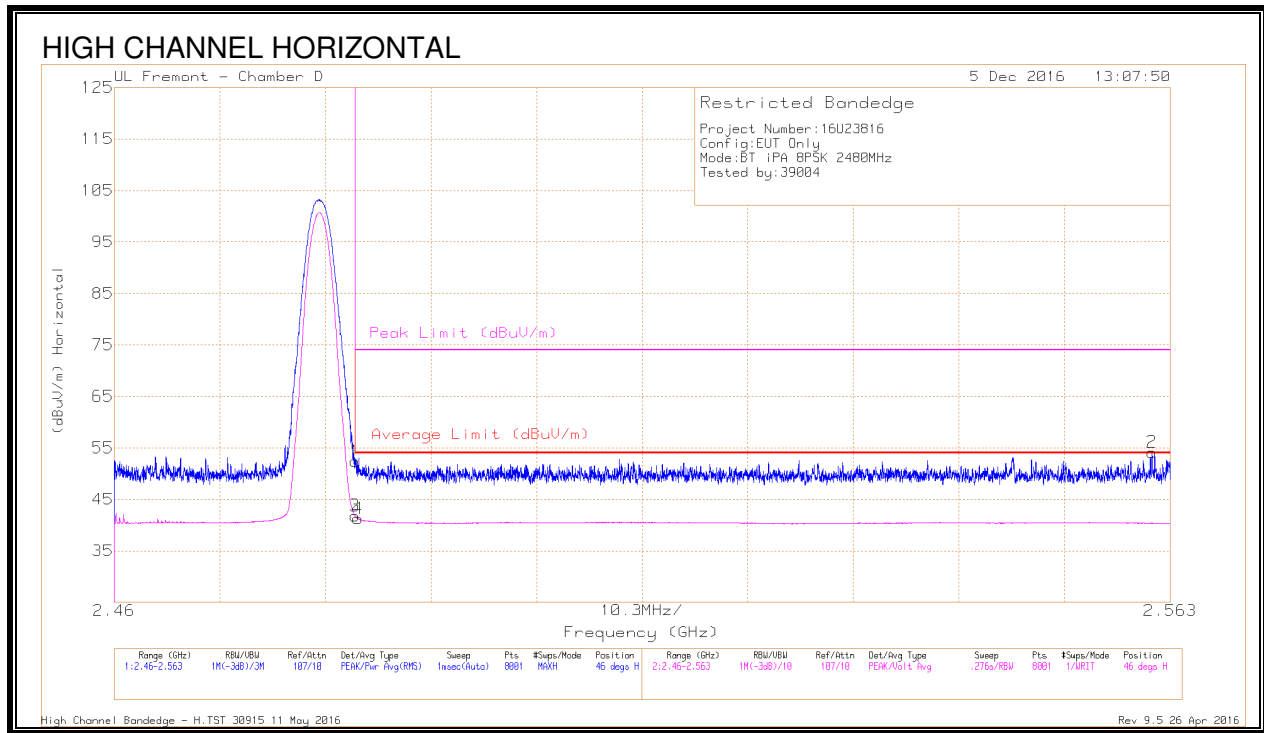
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.49	Pk	32.1	-20.7	48.89	-	-	74	-25.11	244	140	V
2	* 2.366	41.17	Pk	31.9	-20.8	52.27	-	-	74	-21.73	244	140	V
3	* 2.39	28.56	VA1T	32.1	-20.7	39.96	54	-14.04	-	-	244	140	V
4	* 2.386	28.7	VA1T	32.1	-20.8	40	54	-14	-	-	244	140	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

9.5.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

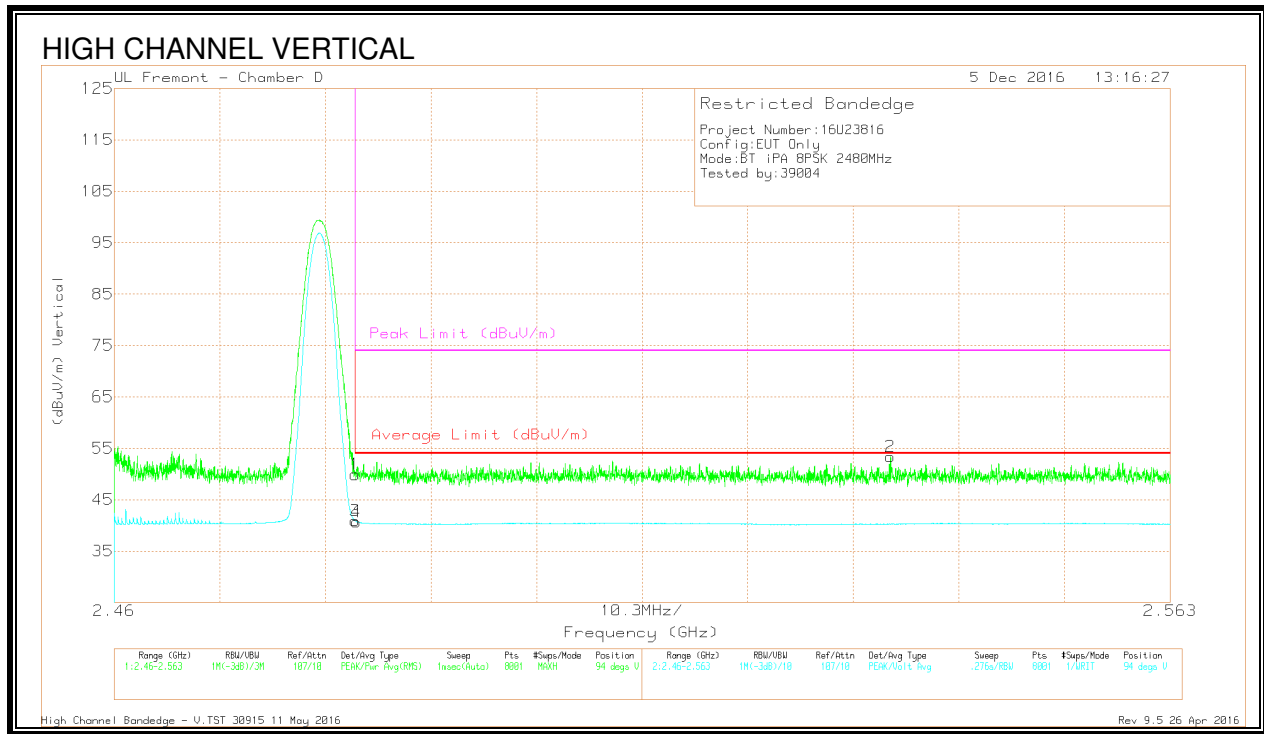


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.88	Pk	32.3	-20.8	52.38	-	-	74	-21.62	46	182	H
3	* 2.484	30.31	VA1T	32.3	-20.8	41.81	54	-12.19	-	-	46	182	H
4	* 2.484	29.76	VA1T	32.3	-20.8	41.26	54	-12.74	-	-	46	182	H
2	2.561	42.66	Pk	32.2	-20.7	54.16	-	-	74	-19.84	46	182	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



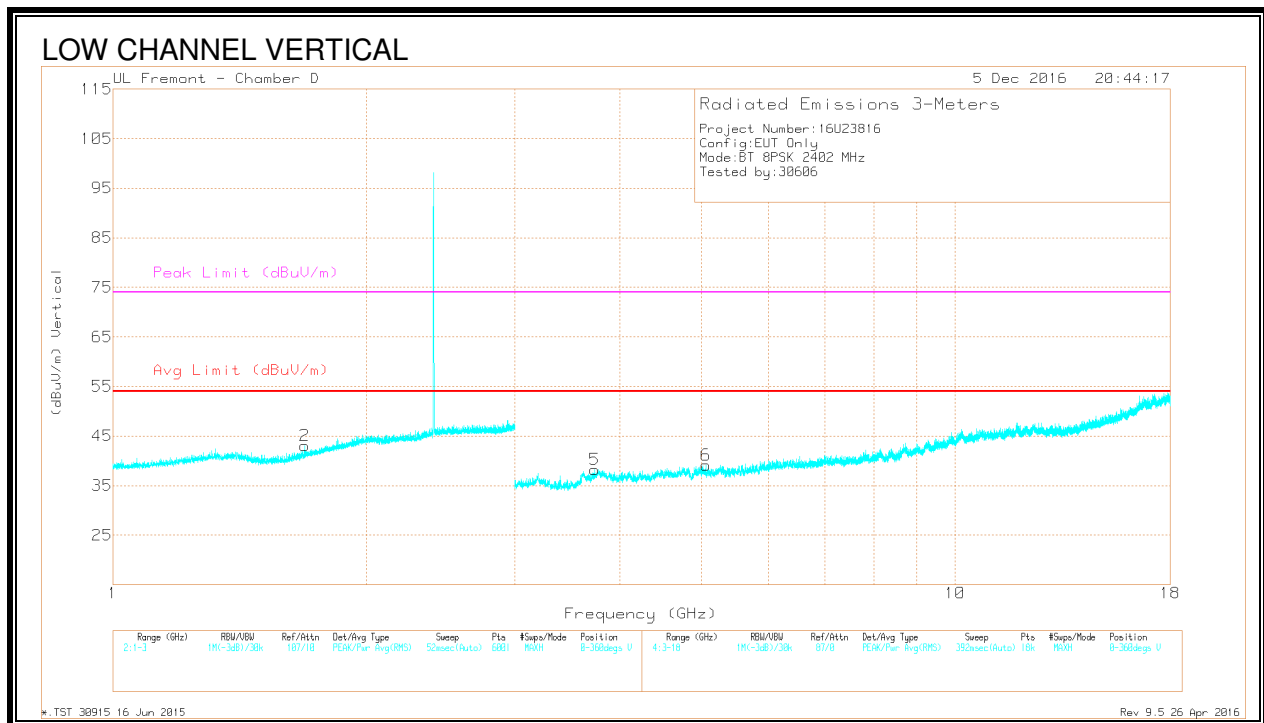
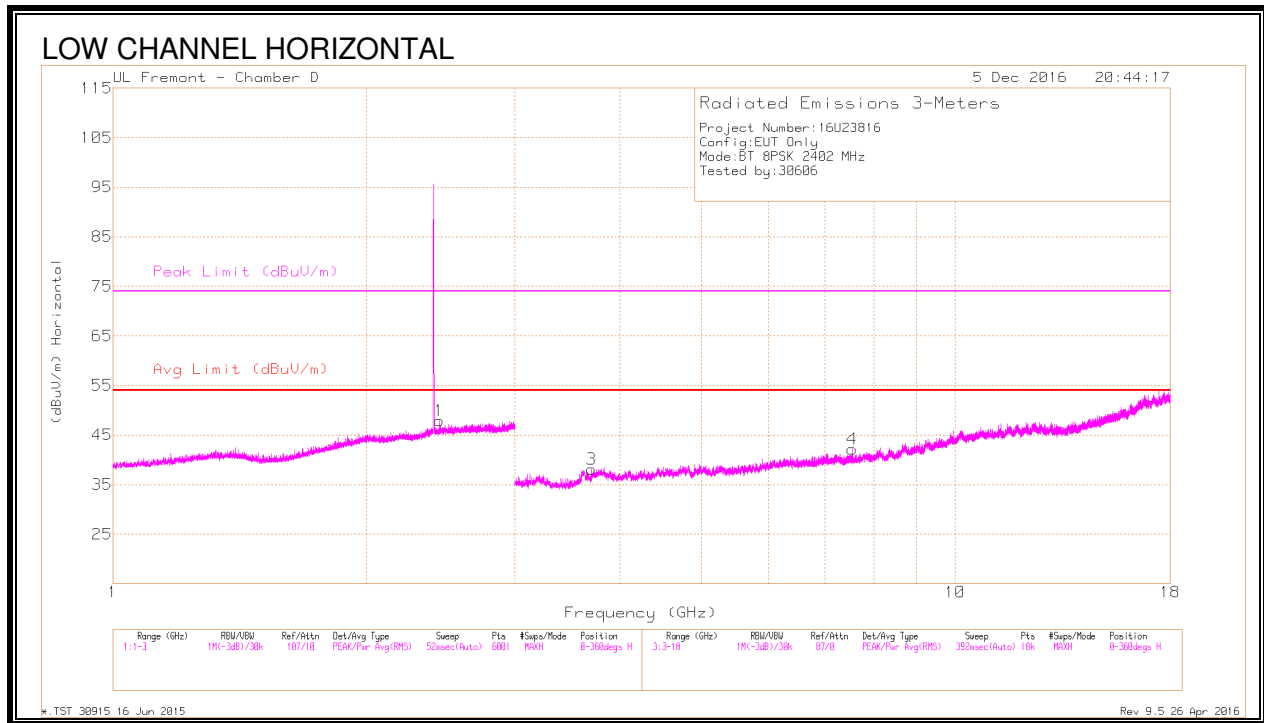
Marker	Frequ ncy(GH z)	Meter Readin g (dBuV)	Det	AF T712 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarit y
1	* 2.484	38.41	Pk	32.3	-20.8	49.91	-	-	74	-24.09	94	206	V
3	* 2.484	29.42	VA1T	32.3	-20.8	40.92	54	-13.08	-	-	94	205	V
4	* 2.484	29.19	VA1T	32.3	-20.8	40.69	54	-13.31	-	-	94	205	V
2	2.536	41.88	Pk	32.2	-20.7	53.38	-	-	74	-20.62	94	206	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

9.5.3. HARMONICS AND SPURIOUS EMISSIONS

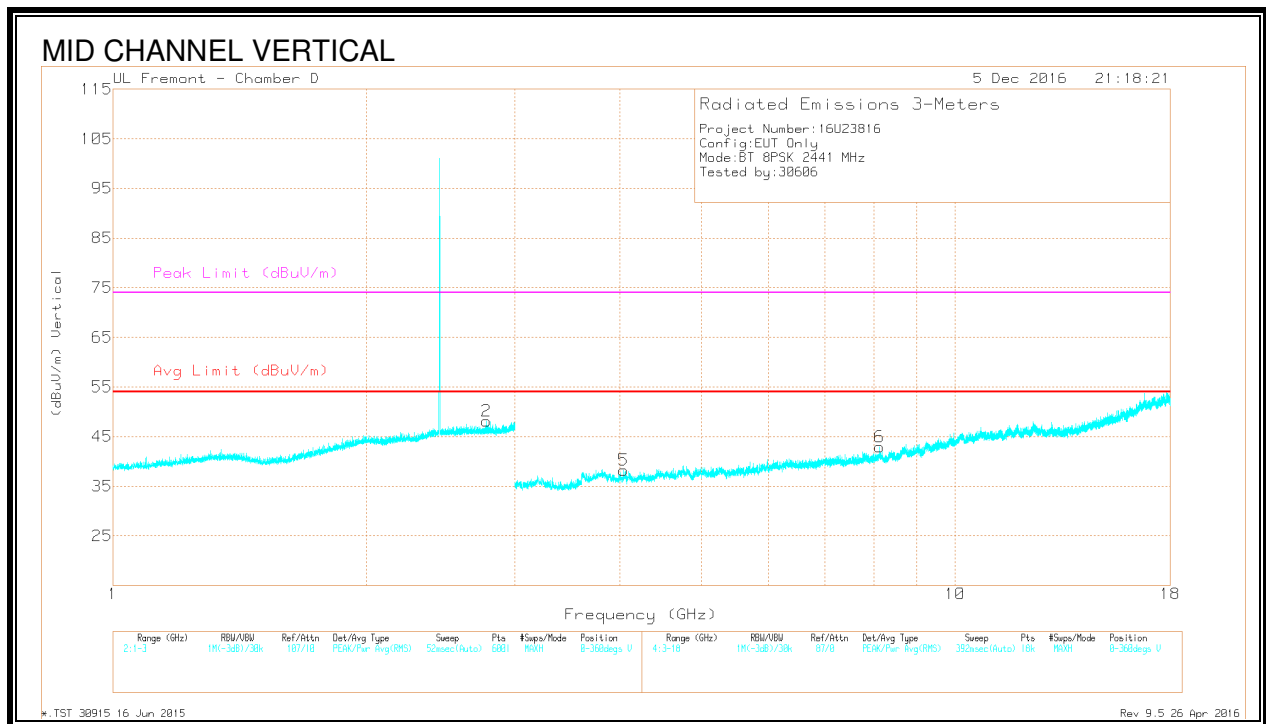
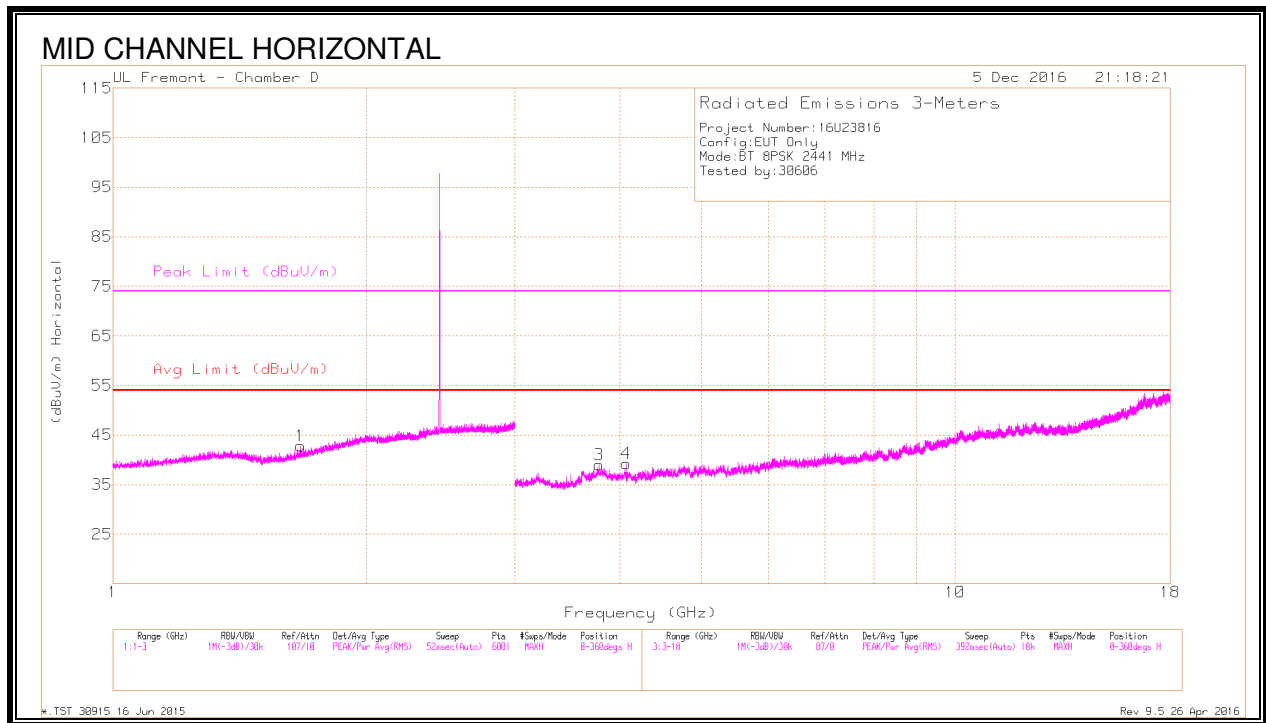


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.691	40.14	PKFH	29	-21.6	47.54	-	-	74	-26.46	350	289	V
	* 1.688	29.06	VA1T	29	-21.7	36.36	54	-17.64	-	-	350	289	V
3	* 3.697	38.33	PKFH	33.5	-29	42.83	-	-	74	-31.17	310	312	H
	* 3.697	27.4	VA1T	33.5	-29	31.9	54	-22.1	-	-	310	312	H
4	* 7.547	37.57	PKFH	35.7	-25.1	48.17	-	-	74	-25.83	345	359	H
	* 7.547	24.78	VA1T	35.7	-25.1	35.38	54	-18.62	-	-	345	359	H
5	* 3.732	39.22	PKFH	33.5	-28.6	44.12	-	-	74	-29.88	308	219	V
	* 3.731	27.28	VA1T	33.5	-28.6	32.18	54	-21.82	-	-	308	219	V
6	* 5.06	37.4	PKFH	34	-26.6	44.8	-	-	74	-29.2	59	118	V
	* 5.06	25.67	VA1T	34	-26.6	33.07	54	-20.93	-	-	59	118	V
1	2.44	40.71	PKFH	32.2	-20.8	52.11	-	-	-	-	263	199	H

* - 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

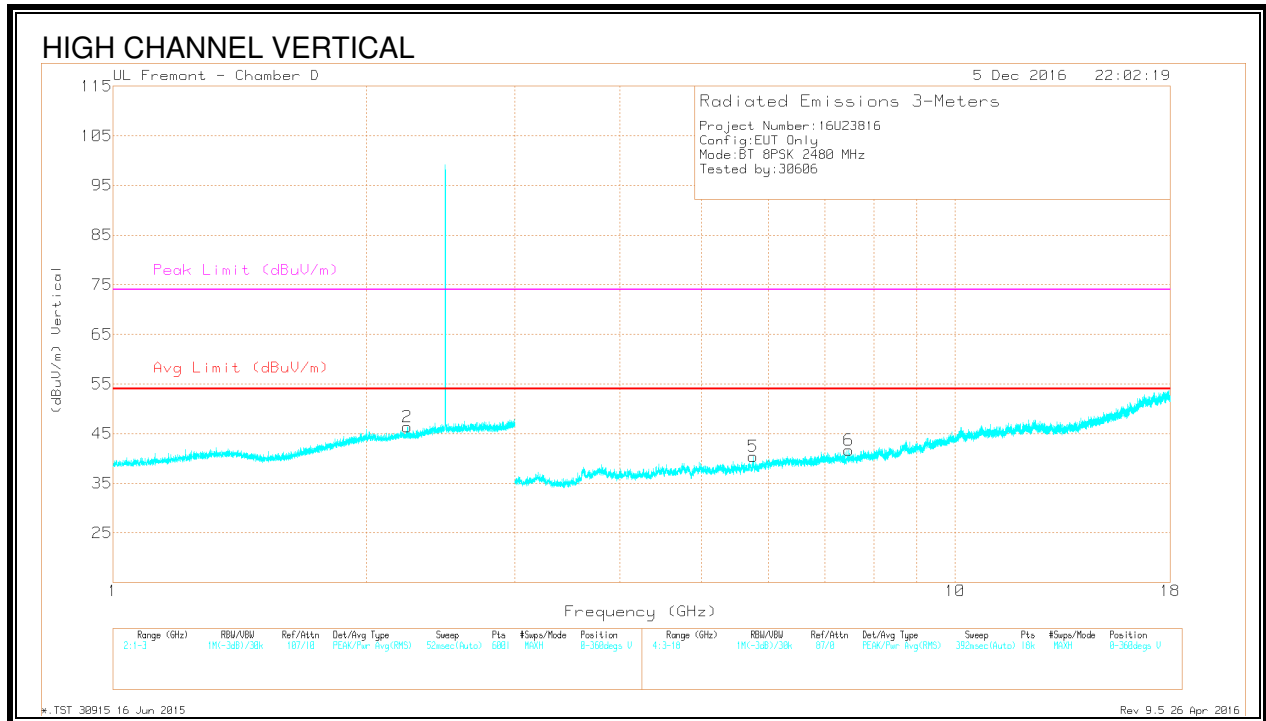
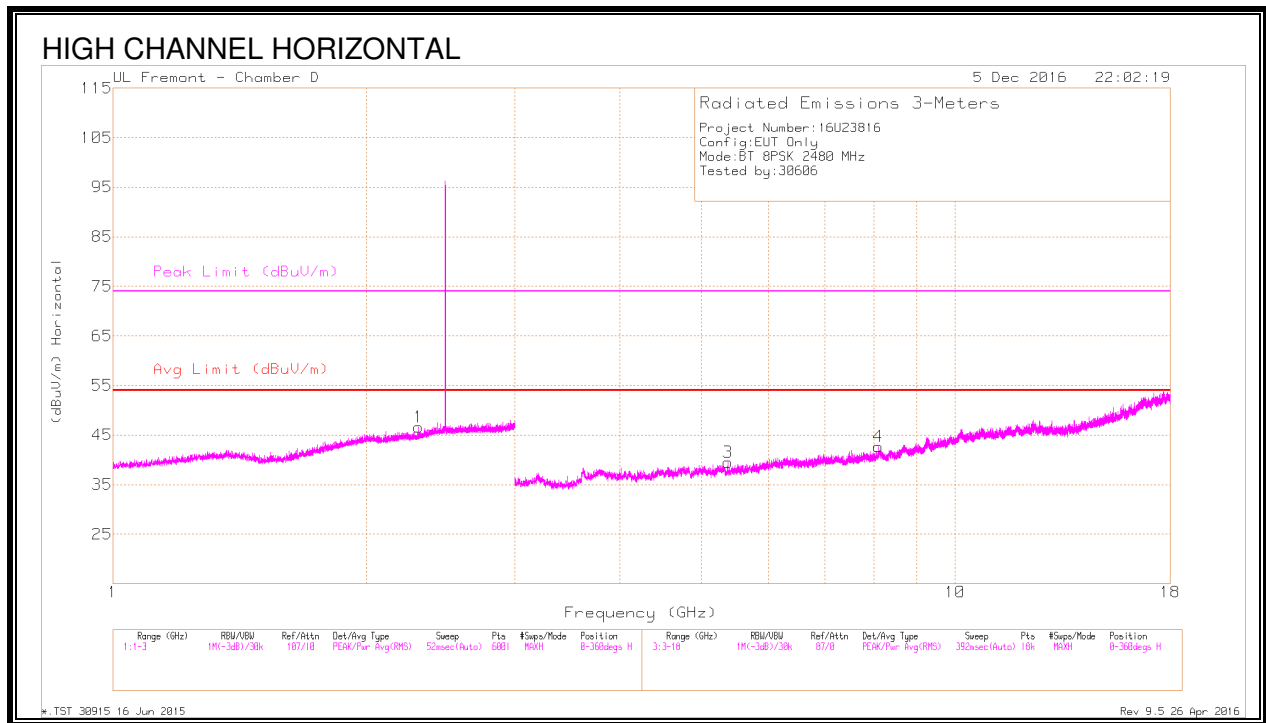


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.669	40.17	PKFH	28.8	-21.7	47.27	-	-	74	-26.73	342	261	H
	* 1.669	29.11	VA1T	28.8	-21.7	36.21	54	-17.79	-	-	342	261	H
2	* 2.774	40.3	PKFH	32.4	-20.3	52.4	-	-	74	-21.6	328	113	V
	* 2.776	29.01	VA1T	32.4	-20.3	41.11	54	-12.89	-	-	328	113	V
3	* 3.774	38.77	PKFH	33.5	-28.1	44.17	-	-	74	-29.83	6	307	H
	* 3.777	27.55	VA1T	33.5	-28	33.05	54	-20.95	-	-	6	307	H
4	* 4.067	38.18	PKFH	33.5	-28.5	43.18	-	-	74	-30.82	159	286	H
	* 4.07	27.14	VA1T	33.5	-28.7	31.94	54	-22.06	-	-	159	286	H
5	* 4.039	38.31	PKFH	33.4	-28.6	43.11	-	-	74	-30.89	89	206	V
	* 4.042	27.5	VA1T	33.4	-28.5	32.4	54	-21.6	-	-	89	206	V
6	* 8.132	34.92	PKFH	35.8	-22.7	48.02	-	-	74	-25.98	247	341	V
	* 8.131	23.58	VA1T	35.8	-22.7	36.68	54	-17.32	-	-	247	341	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.233	40.29	PKFH	31.5	-20.9	50.89	-	-	74	-23.11	318	359	V
	* 2.236	29.04	VA1T	31.5	-20.9	39.64	54	-14.36	-	-	318	359	V
3	* 5.368	38.3	PKFH	34.4	-27.2	45.5	-	-	74	-28.5	138	120	H
	* 5.368	26.24	VA1T	34.4	-27.2	33.44	54	-20.56	-	-	138	120	H
4	* 8.101	35.32	PKFH	35.7	-23.6	47.42	-	-	74	-26.58	236	115	H
	* 8.104	24.15	VA1T	35.7	-23.5	36.35	54	-17.65	-	-	236	115	H
6	* 7.475	36.53	PKFH	35.7	-24.7	47.53	-	-	74	-26.47	59	377	V
	* 7.475	24.49	VA1T	35.7	-24.7	35.49	54	-18.51	-	-	59	377	V
1	2.305	41.32	PKFH	31.4	-20.9	51.82	-	-	-	-	13	209	H
	2.305	29.11	VA1T	31.4	-20.9	39.61	-	-	-	-	13	209	H
5	5.755	37.53	PKFH	34.8	-26.9	45.43	-	-	-	-	220	259	V
	5.756	26.37	VA1T	34.8	-26.9	34.27	-	-	-	-	220	259	V

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

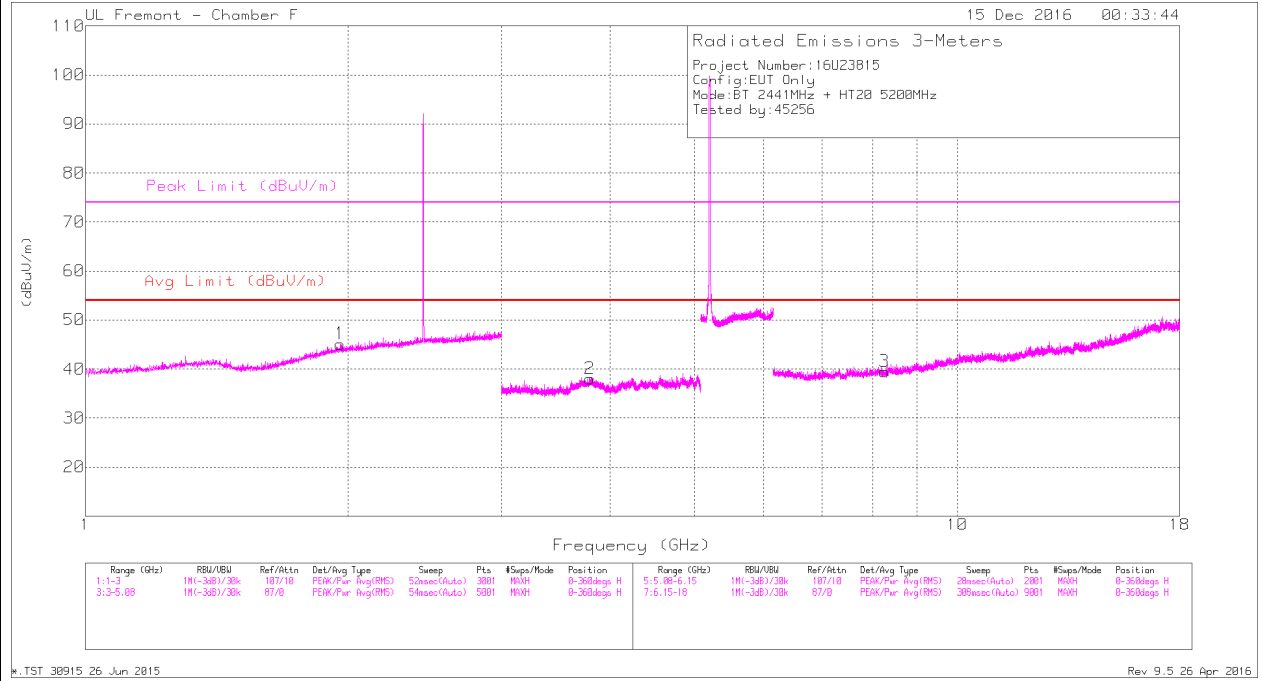
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

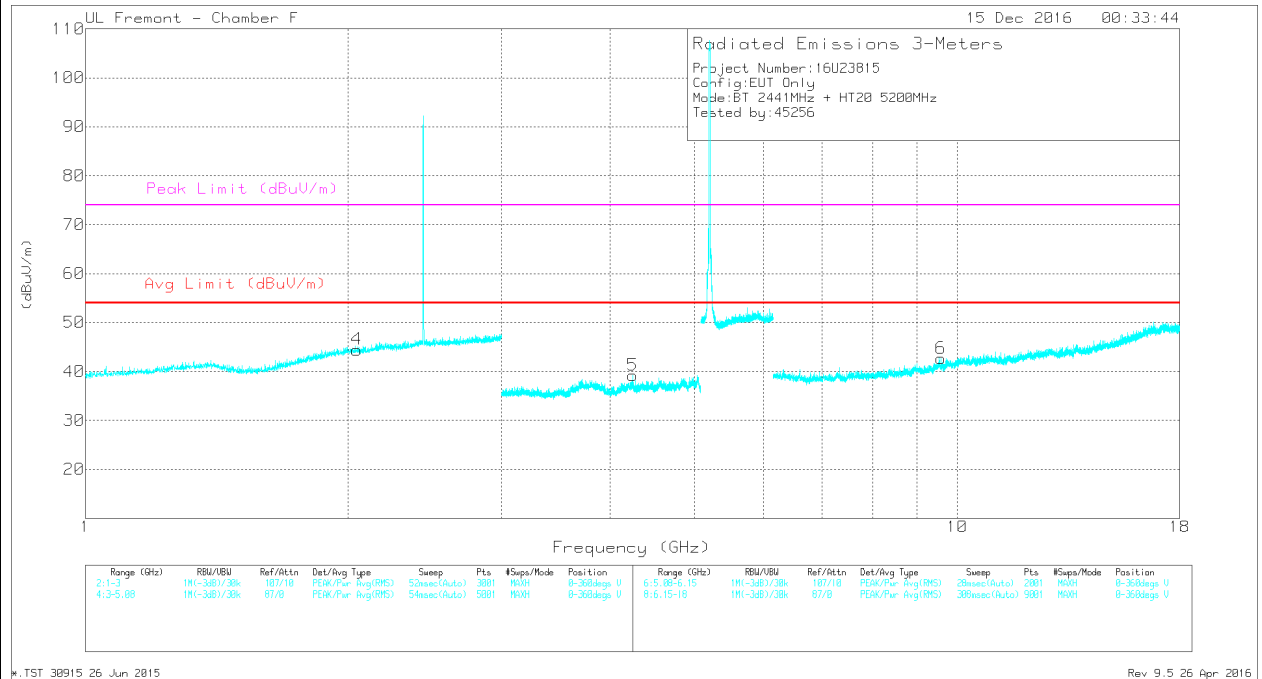
9.6. WORST-CASE CO-LOCATION

BLUETOOTH AND 802.11 HT20 2Tx CDD MODE IN THE 5.2GHz BAND

HORIZONTAL PLOT



VERTICAL PLOT



DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cb/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.963	41.4	PK-U	31.3	-21.4	0	51.3			74	-22.7	337	216	H
	1.962	30.44	ADR	31.3	-21.4	0	40.34	53.97	-13.63	-	-	337	216	H
2	* 3.788	38.54	PK-U	33.4	-28.8	0	43.14			74	-30.86	60	126	H
	* 3.789	27.84	ADR	33.4	-28.8	0	32.44	53.97	-21.53	-	-	60	126	H
3	* 8.257	35.07	PK-U	35.7	-24.5	0	46.27			74	-27.73	267	246	H
	* 8.26	24.47	ADR	35.7	-24.6	0	35.57	53.97	-18.40	-	-	267	246	H
4	2.049	41.76	PK-U	31.5	-21.4	0	51.86			74	-22.14	231	139	V
	2.05	30.44	ADR	31.5	-21.5	0	40.44	53.97	-13.53	-	-	231	139	V
5	* 4.247	38.65	PK-U	33.7	-28.1	0	44.25			74	-29.75	279	215	V
	* 4.247	27.63	ADR	33.7	-28.1	0	33.23	53.97	-20.74	-	-	279	215	V
6	9.579	34.06	PK-U	36.5	-21.7	0	48.86			74	-25.14	47	137	V
	9.581	22.97	ADR	36.5	-21.7	0	37.77	53.97	-16.20	-	-	47	137	V

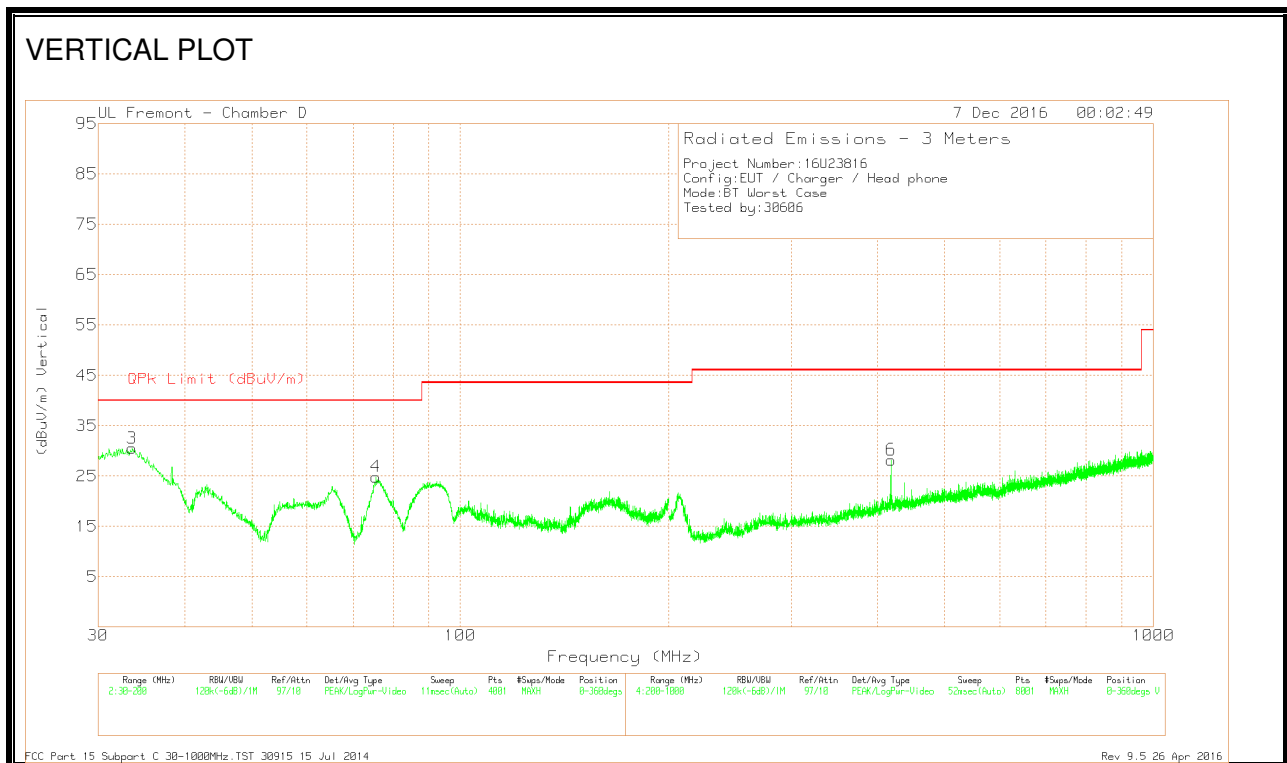
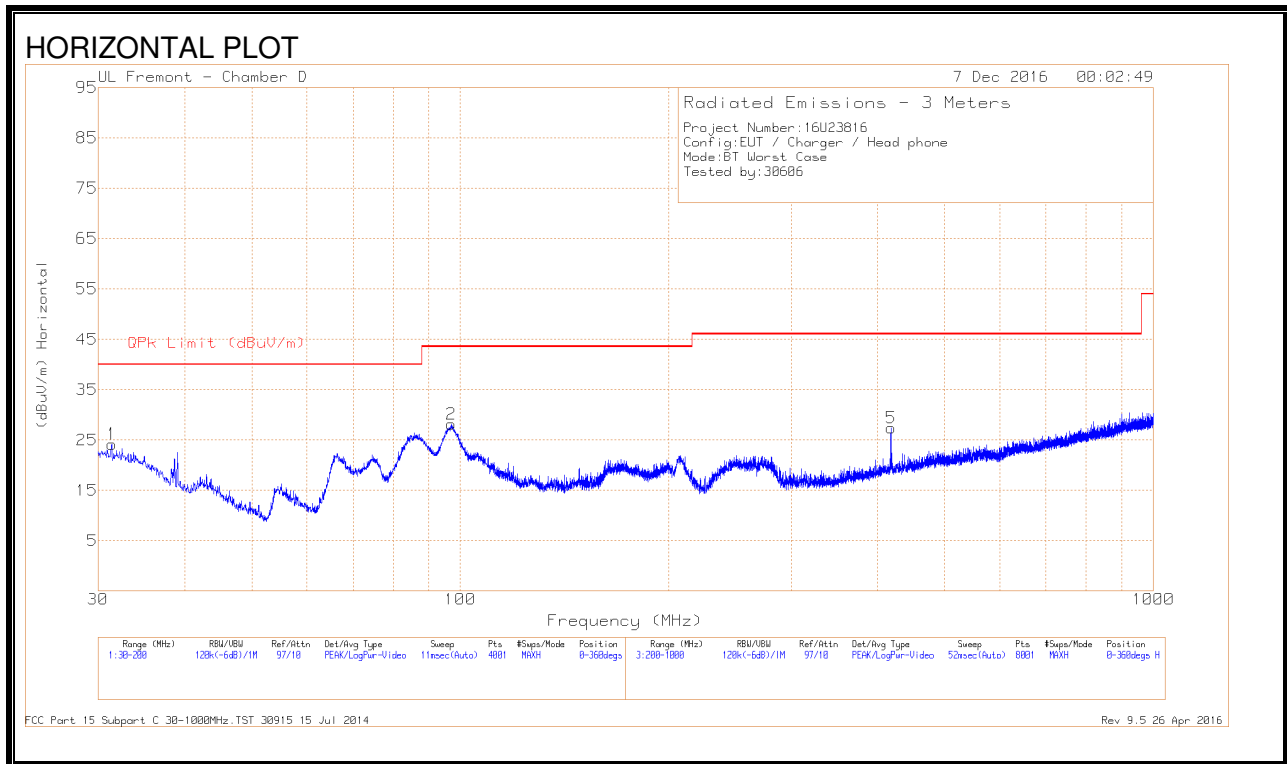
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.7. WORST-CASE BELOW 1 GHz

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



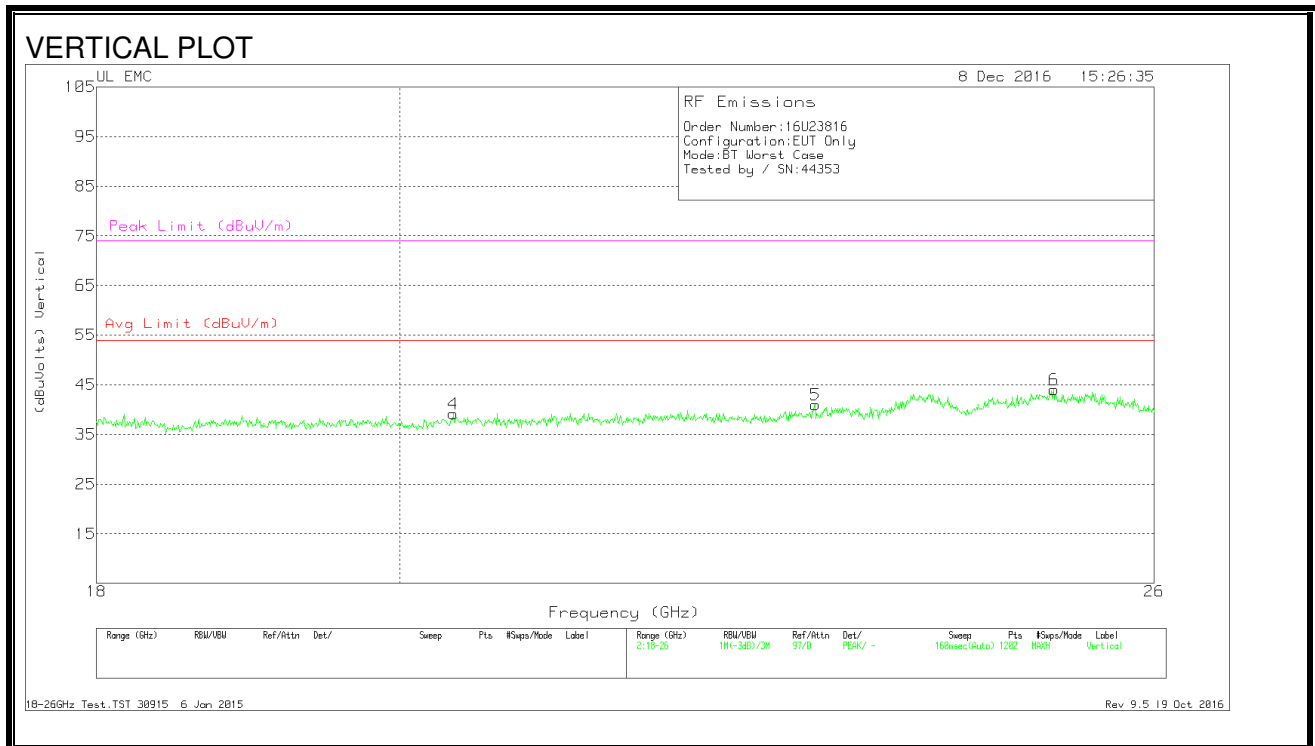
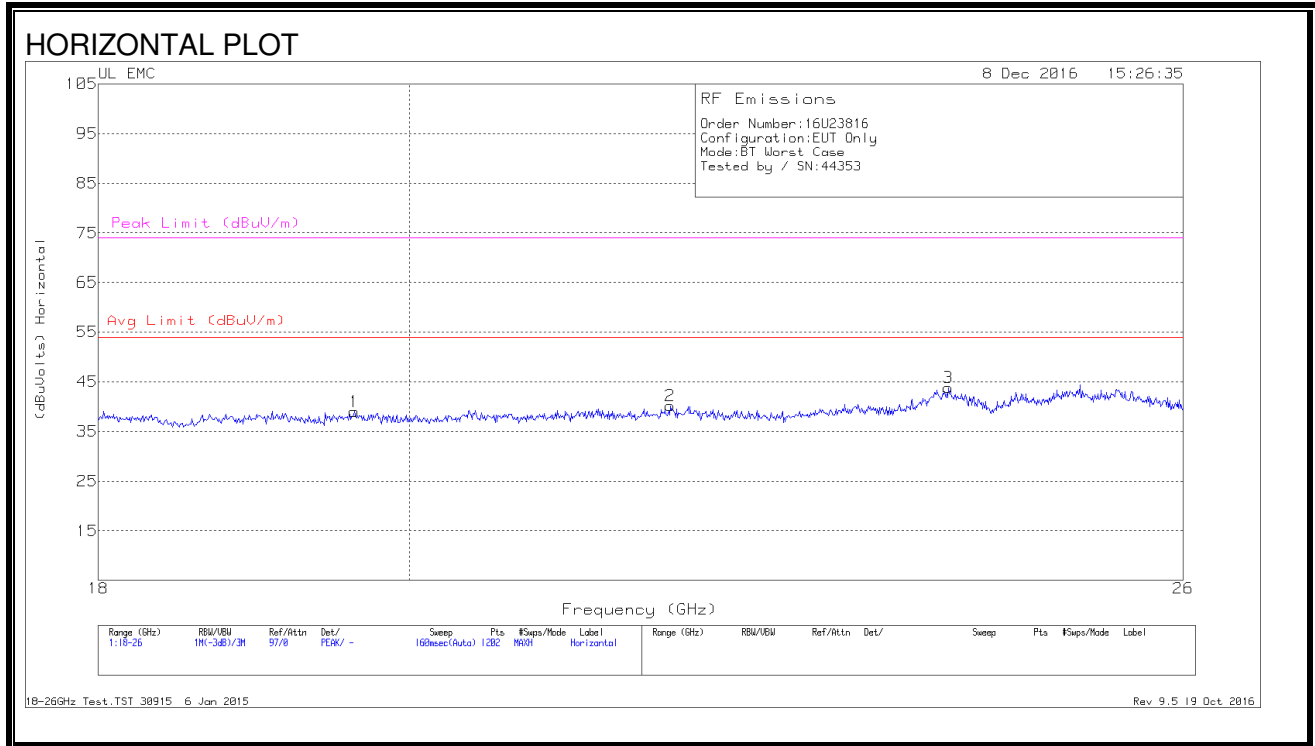
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.4025	31.77	Pk	24.3	-31.9	24.17	40	-15.83	0-360	98	H
3	33.6125	39.63	Pk	22.7	-31.8	30.53	40	-9.47	0-360	100	V
4	75.5175	44.44	Pk	11.9	-31.5	24.84	40	-15.16	0-360	100	V
2	97.0225	46.24	Pk	13.3	-31.4	28.14	43.52	-15.38	0-360	299	H
5	418.3	36.91	Pk	20.4	-29.9	27.41	46.02	-18.61	0-360	299	H
6	418.3	37.7	Pk	20.4	-29.9	28.2	46.02	-17.82	0-360	201	V

Pk - Peak detector

9.8. WORST-CASE ABOVE 18 GHz

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



Data

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (dB/m)	Amp/Cb I (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.632	40.7	Pk	32.7	-24.9	-9.5	39	54	-15	74	-35
2	21.85	41.07	Pk	33.3	-24.7	-9.5	40.17	54	-13.83	74	-33.83
3	24.008	43.73	Pk	34	-24.4	-9.5	43.83	54	-10.17	74	-30.17
4	20.378	40.77	Pk	32.9	-25	-9.5	39.17	54	-14.83	74	-34.83
5	23.109	42.2	Pk	33.5	-25.2	-9.5	41	54	-13	74	-33
6	25.107	43.7	Pk	34.3	-24.5	-9.5	44	54	-10	74	-30

Pk - Peak detector

18-26GHz Test.TST 30915 6 Jan 2015
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10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

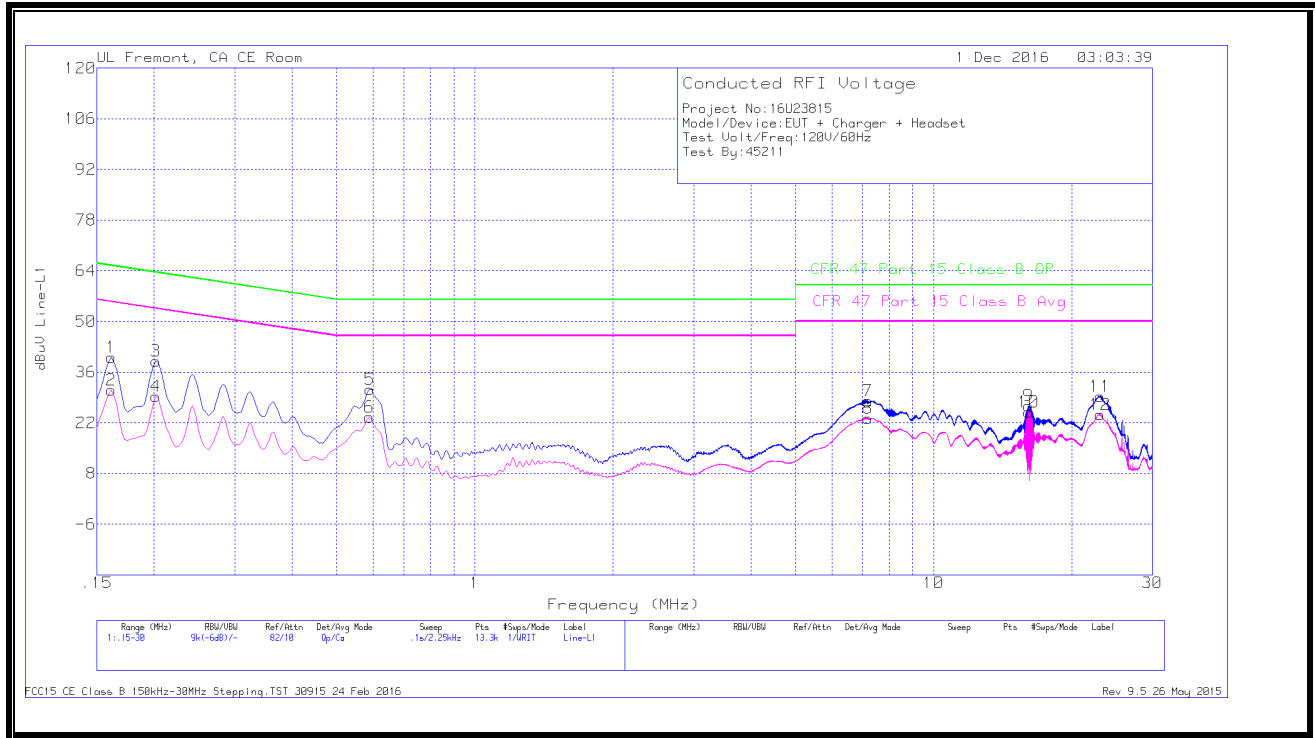
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1. EUT POWERED BY AC/DC ADAPTER VIA USB CABLE

LINE 1 RESULTS



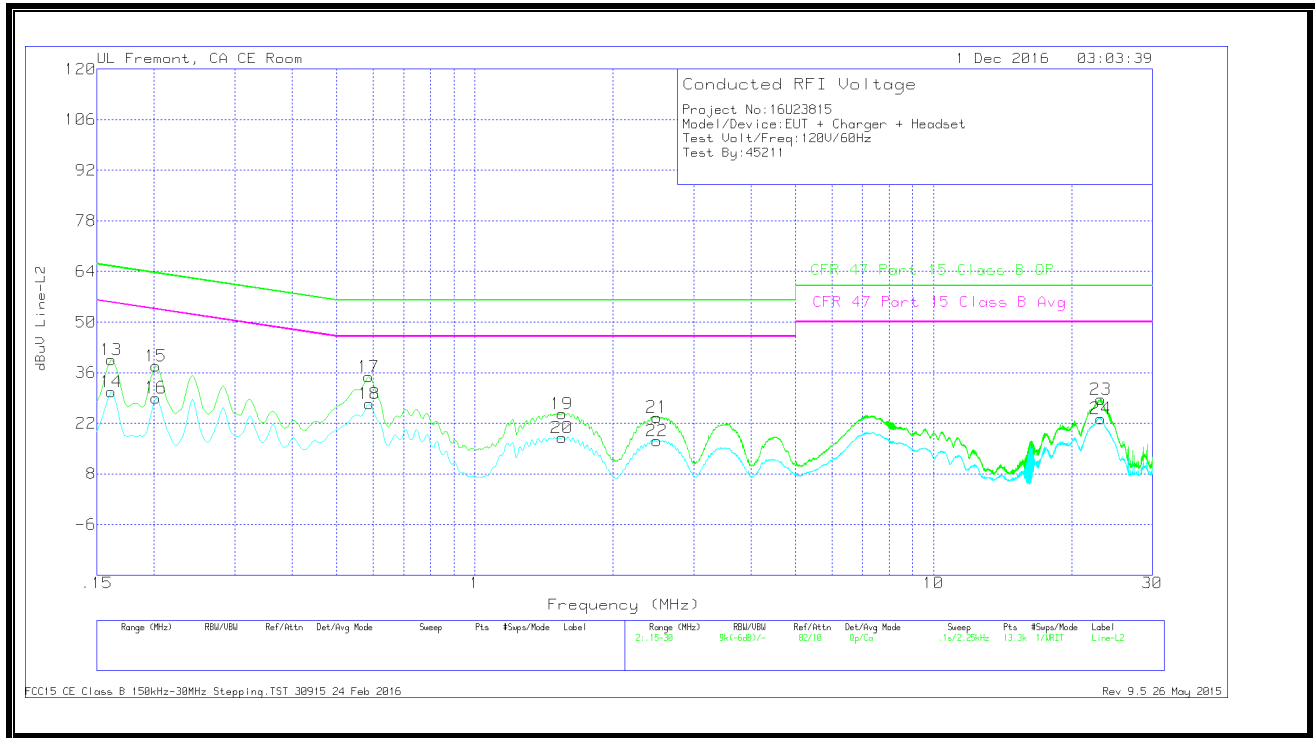
WORST EMISSIONS

Range 1: Line-L1 15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	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	30	Qp	0	0	10.1	40.1	65.4	-25.3	-	-
2	.16125	21.03	Ca	0	0	10.1	31.13	-	-	55.4	-24.27
3	.20175	28.96	Qp	0	0	10.1	39.06	63.54	-24.48	-	-
4	.20175	19.21	Ca	0	0	10.1	29.31	-	-	53.54	-24.23
5	.591	21.16	Qp	0	0	10.1	31.26	56	-24.74	-	-
6	.58875	13.44	Ca	0	0	10.1	23.54	-	-	46	-22.46
7	7.18125	17.81	Qp	0	.1	10.2	28.11	60	-31.89	-	-
8	7.18688	12.86	Ca	0	.1	10.2	23.16	-	-	50	-26.84
9	16.12725	16.14	Qp	0	.2	10.3	26.64	60	-33.36	-	-
10	16.12725	14.49	Ca	0	.2	10.3	24.99	-	-	50	-25.01
11	23.0775	18.67	Qp	.1	.2	10.4	29.37	60	-30.63	-	-
12	23.08538	13.54	Ca	.1	.2	10.4	24.24	-	-	50	-25.76

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

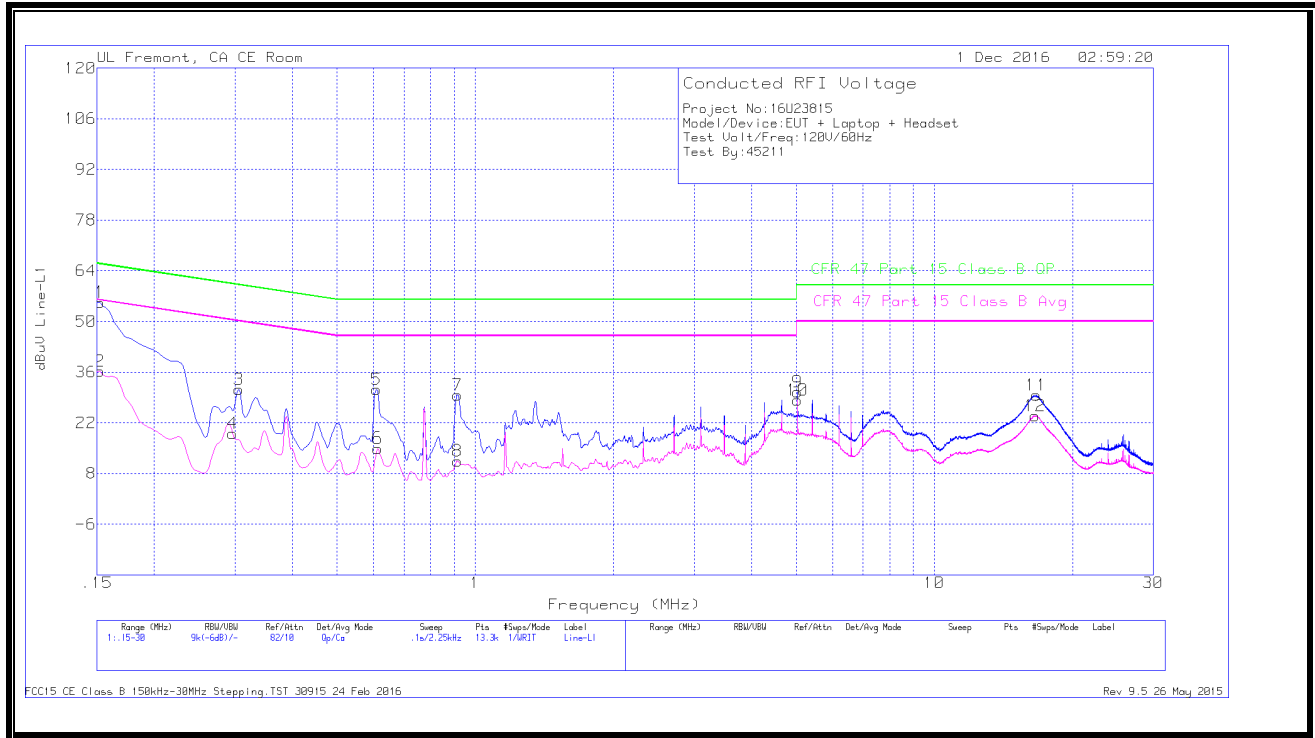
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 2&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.16125	29.52	Qp	0	0	10.1	39.62	65.4	-25.78	-	-
14	.16125	20.57	Ca	0	0	10.1	30.67	-	-	55.4	-24.73
15	.20175	27.66	Qp	0	0	10.1	37.76	63.54	-25.78	-	-
16	.20175	18.95	Ca	0	0	10.1	29.05	-	-	53.54	-24.49
17	.5865	24.72	Qp	0	0	10.1	34.82	56	-21.18	-	-
18	.58875	17.27	Ca	0	0	10.1	27.37	-	-	46	-18.63
19	1.54725	14.49	Qp	0	.1	10.1	24.69	56	-31.31	-	-
20	1.54725	7.74	Ca	0	.1	10.1	17.94	-	-	46	-28.06
21	2.49675	13.46	Qp	0	.1	10.1	23.66	56	-32.34	-	-
22	2.49675	6.95	Ca	0	.1	10.1	17.15	-	-	46	-28.85
23	23.15175	17.87	Qp	.1	.2	10.4	28.57	60	-31.43	-	-
24	23.1585	12.61	Ca	.1	.2	10.4	23.31	-	-	50	-26.69

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS



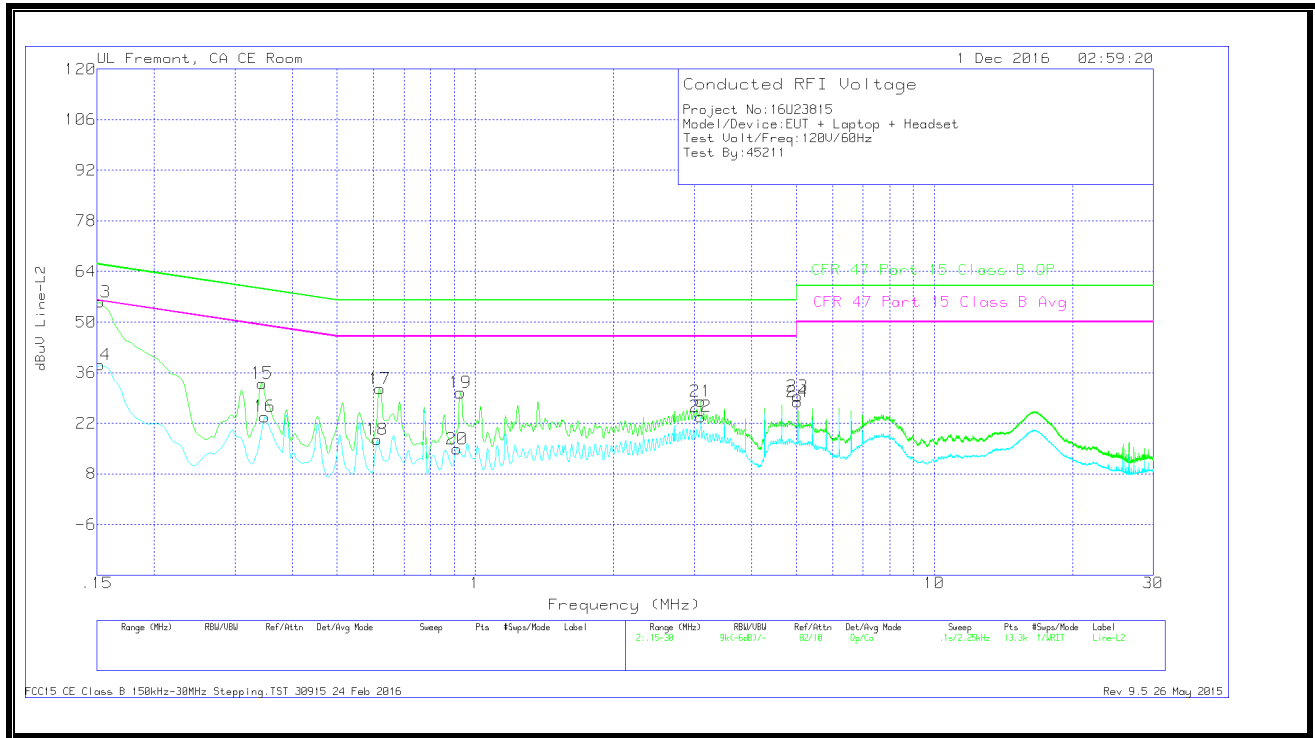
WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	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	.15225	45.1	Qp	.1	0	10.1	55.3	65.88	-10.58	-	-
2	.15225	26	Ca	.1	0	10.1	36.2	-	-	55.88	-19.68
3	.30525	21.12	Qp	0	0	10.1	31.22	60.1	-28.88	-	-
4	.29625	9.03	Ca	0	0	10.1	19.13	-	-	50.35	-31.22
5	.609	21.06	Qp	0	0	10.1	31.16	56	-24.84	-	-
6	.6135	4.87	Ca	0	0	10.1	14.97	-	-	46	-31.03
7	.915	19.62	Qp	0	0	10.1	29.72	56	-26.28	-	-
8	.915	1.39	Ca	0	0	10.1	11.49	-	-	46	-34.51
9	5.037	20.41	Qp	0	.1	10.1	30.61	60	-29.39	-	-
10	5.037	18	Ca	0	.1	10.1	28.2	-	-	50	-21.8
11	16.692	19.1	Qp	0	.2	10.3	29.6	60	-30.4	-	-
12	16.56713	13.47	Ca	0	.2	10.3	23.97	-	-	50	-26.03

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	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	.15225	45.1	Qp	.1	0	10.1	55.3	65.88	-10.58	-	-
2	.15225	26	Ca	.1	0	10.1	36.2	-	-	55.88	-19.68
3	.30525	21.12	Qp	0	0	10.1	31.22	60.1	-28.88	-	-
4	.29625	9.03	Ca	0	0	10.1	19.13	-	-	50.35	-31.22
5	.609	21.06	Qp	0	0	10.1	31.16	56	-24.84	-	-
6	.6135	4.87	Ca	0	0	10.1	14.97	-	-	46	-31.03
7	.915	19.62	Qp	0	0	10.1	29.72	56	-26.28	-	-
8	.915	1.39	Ca	0	0	10.1	11.49	-	-	46	-34.51
9	5.037	20.41	Qp	0	.1	10.1	30.61	60	-29.39	-	-
10	5.037	18	Ca	0	.1	10.1	28.2	-	-	50	-21.8
11	16.692	19.1	Qp	0	.2	10.3	29.6	60	-30.4	-	-
12	16.56713	13.47	Ca	0	.2	10.3	23.97	-	-	50	-26.03

Qp - Quasi-Peak detector

Ca - CISPR average detection