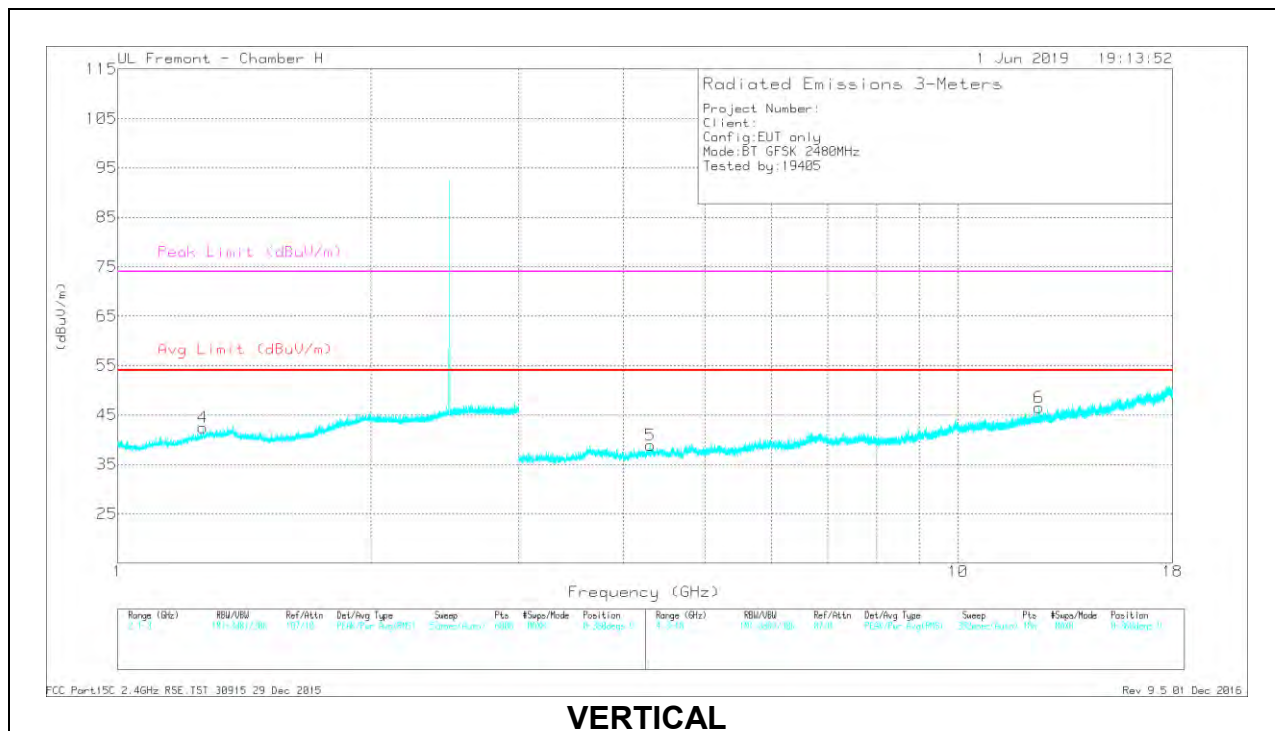
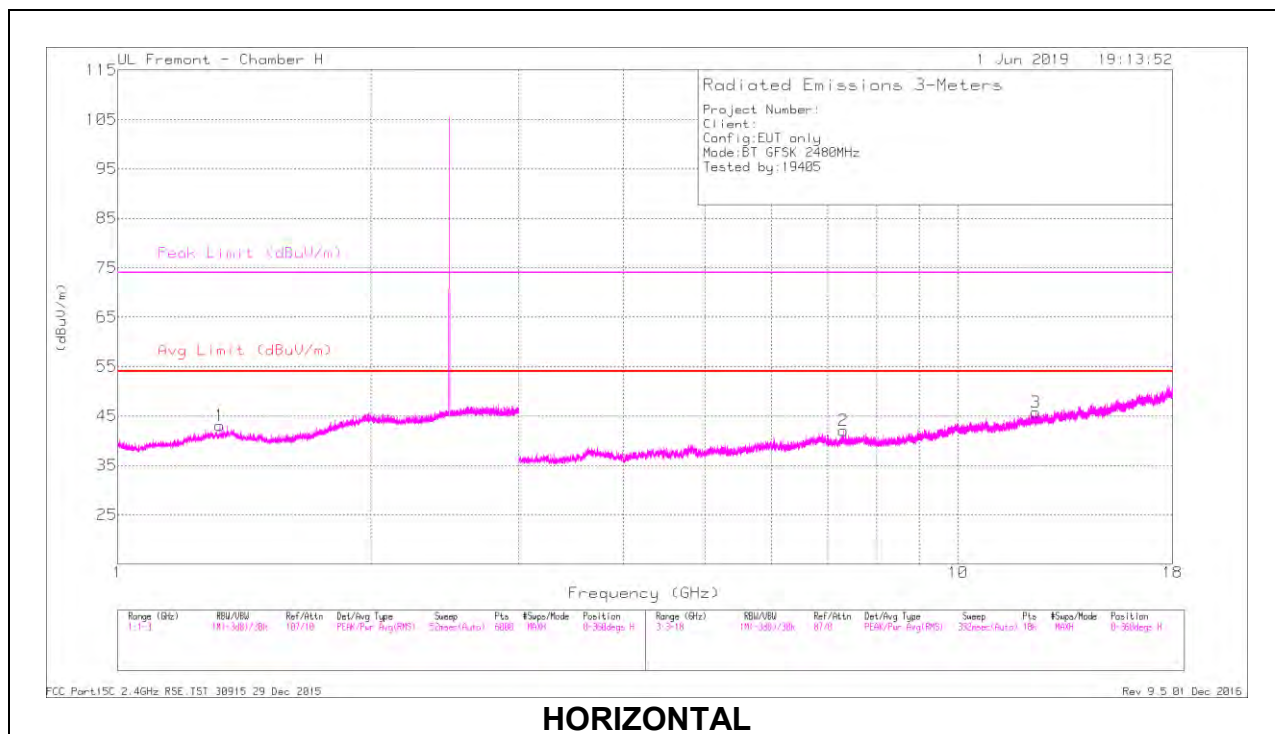


HIGH CHANNEL RESULTS



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	* 1.32	43.45	PKFH	29.2	-25.3	47.35	-	-	74	-26.65	328	206	H
	* 1.322	31.96	VA1T	29.2	-25.3	35.86	54	-18.14	-	-	328	206	H
4	* 1.263	44.6	PKFH	28.8	-25.5	47.9	-	-	74	-26.1	32	254	V
	* 1.262	31.95	VA1T	28.8	-25.5	35.25	54	-18.75	-	-	32	254	V
2	* 7.309	37.59	PKFH	36.4	-26.4	47.59	-	-	74	-26.41	144	287	H
	* 7.308	25.33	VA1T	36.4	-26.4	35.33	54	-18.67	-	-	144	287	H
3	* 12.382	36.21	PKFH	39.2	-23.4	52.01	-	-	74	-21.99	77	193	H
	* 12.382	23.19	VA1T	39.2	-23.4	38.99	54	-15.01	-	-	77	193	H
5	* 4.304	39.93	PKFH	33.7	-29.9	43.73	-	-	74	-30.27	231	137	V
	* 4.306	27.87	VA1T	33.7	-29.9	31.67	54	-22.33	-	-	231	137	V
6	* 12.495	34.46	PKFH	39.2	-23.3	50.36	-	-	74	-23.64	96	262	V
	* 12.491	23.18	VA1T	39.2	-23.3	39.08	54	-14.92	-	-	96	262	V

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

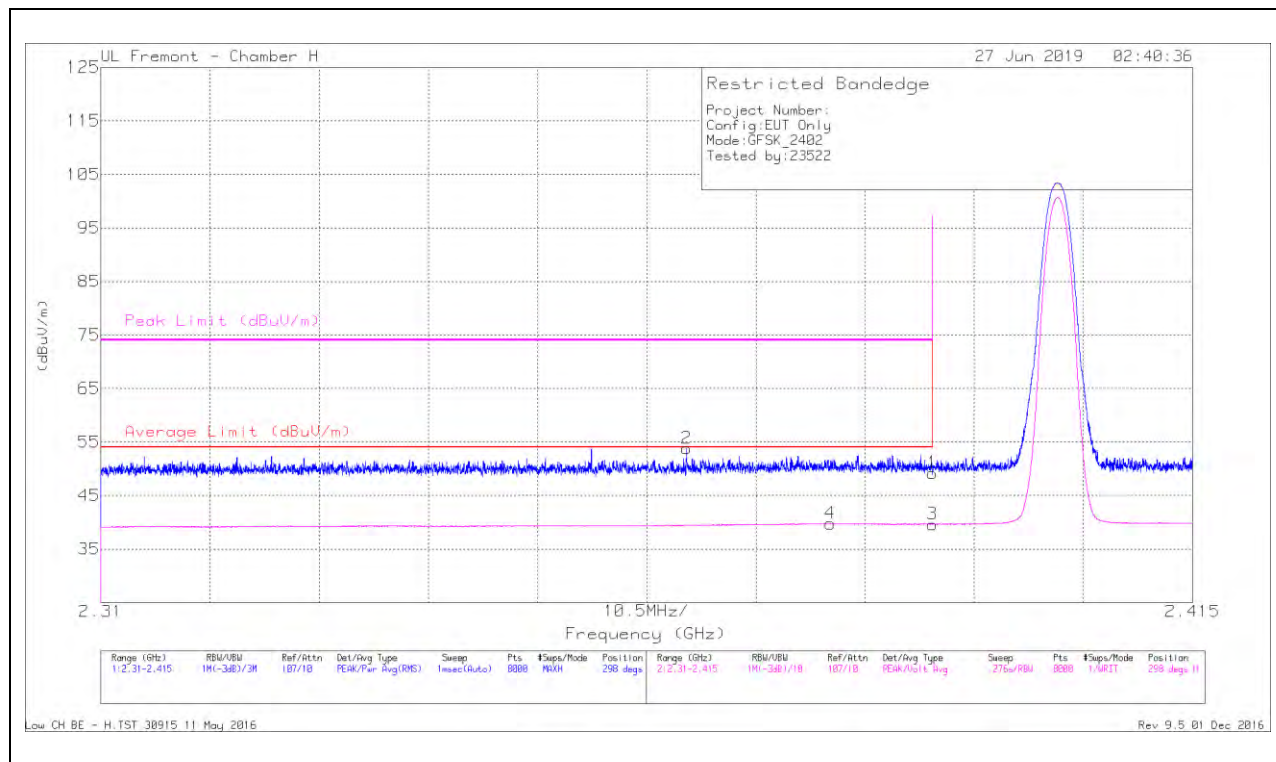
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



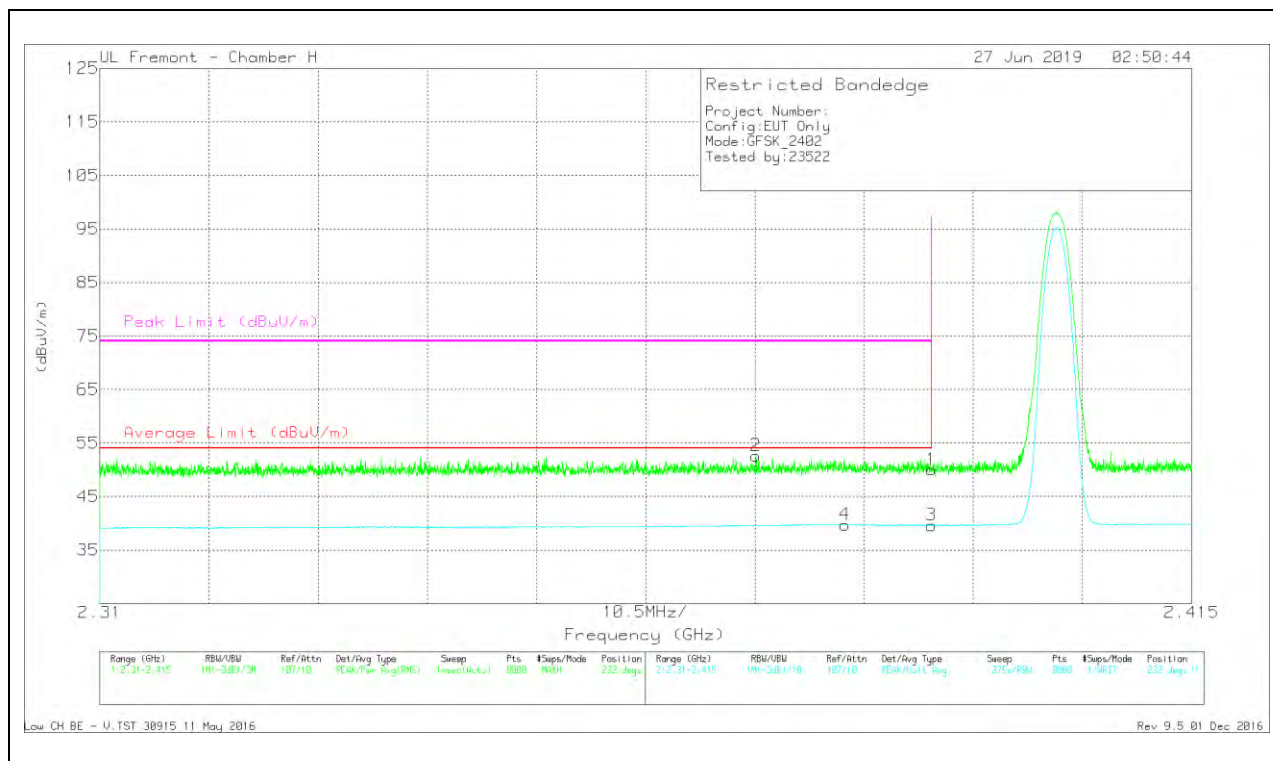
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.59	Pk	32.1	-23.5	49.19	-	-	74	-24.81	298	100	H
2	* 2.366	45.39	Pk	32	-23.6	53.79	-	-	74	-20.21	298	100	H
3	* 2.39	31.03	VA1T	32.1	-23.5	39.63	54	-14.37	-	-	298	100	H
4	* 2.38	31.06	VA1T	32.2	-23.5	39.76	54	-14.24	-	-	298	100	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (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	41.43	Pk	32.1	-23.5	50.03	-	-	74	-23.97	232	391	V
2	* 2.373	44	Pk	32.1	-23.5	52.6	-	-	74	-21.4	232	391	V
3	* 2.39	31.03	VA1T	32.1	-23.5	39.63	54	-14.37	-	-	232	391	V
4	* 2.382	31.03	VA1T	32.2	-23.5	39.73	54	-14.27	-	-	232	391	V

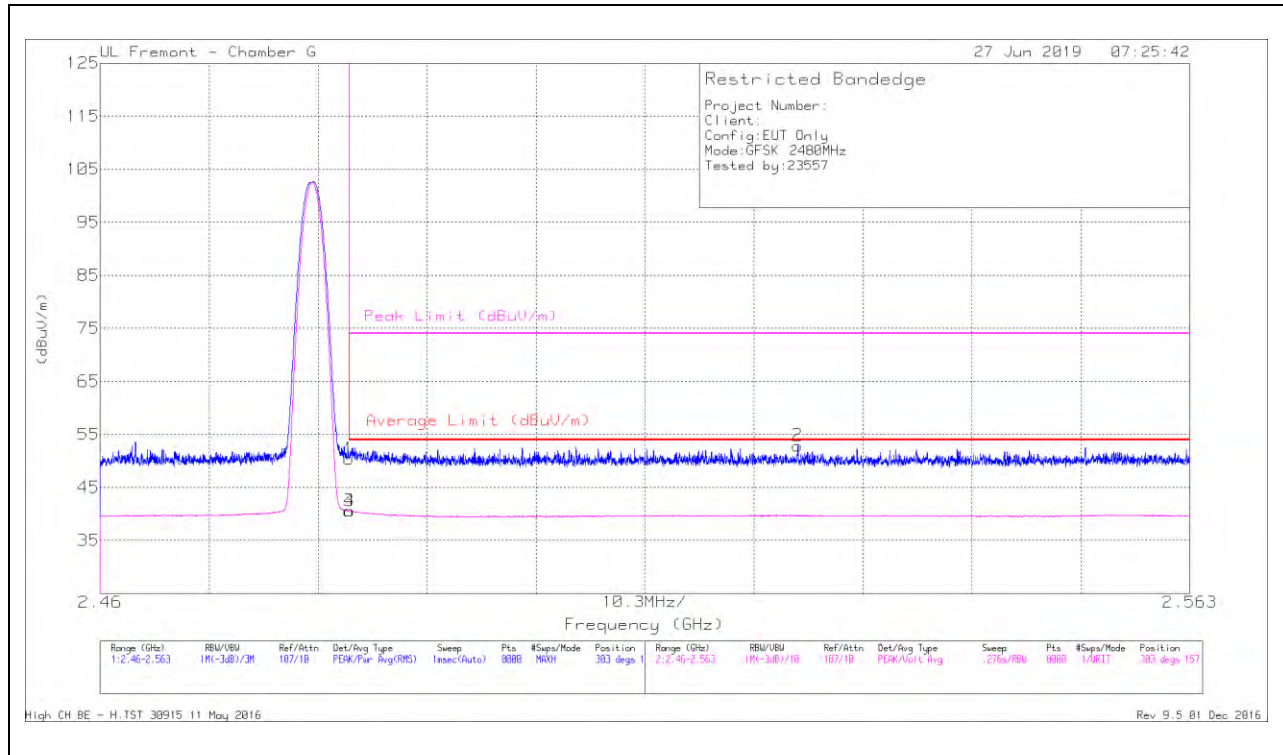
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T120 (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	40.1	Pk	32.4	-22.1	50.4	-	-	74	-23.6	303	157	H
3	* 2.484	30.24	VA1T	32.4	-22.1	40.54	54	-13.46	-	-	303	157	H
4	* 2.484	30.26	VA1T	32.4	-22.1	40.56	54	-13.44	-	-	303	157	H
2	2.526	42.58	Pk	32.4	-22.1	52.88	-	-	74	-21.12	303	157	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

UL Fremont - Chamber G

27 Jun 2019 07:34:52

Restricted Bandedge

Project Number:
Client:
Config: EUT Only
Mode: GFSK 2480MHz
Tested by: 23557

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

2.46

2.46

10.3MHz/

Frequency (GHz)

2.45

2.563

Range (GHz)	RBW/VBW	Ref/Attn	Det/Avg Type	Sweep	Pts	#Sups/Mode	Position	Range (GHz)	RBW/VBW	Ref/Attn	Det/Avg Type	Sweep	Pts	#Sups/Mode	Position
1.2-4.0-2.563	10K-300/10	107/10	PDR/Max Avg:RMS	Trace(Auto)	5000	1000	100 degs	1.2-4.0-2.563	10K-300/10	107/10	PDR/Max Avg	Trace(Auto)	5000	1000	100 degs

High CH BE - U.TST 30915.11 May 2016

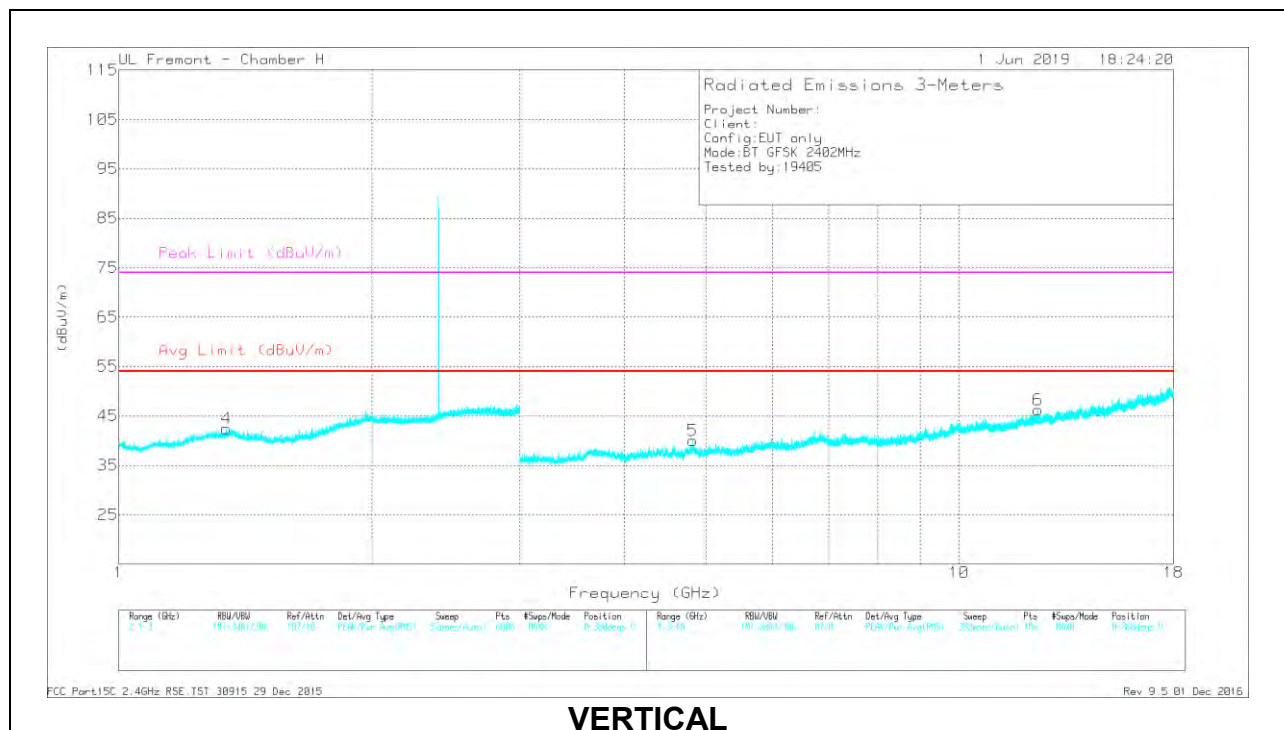
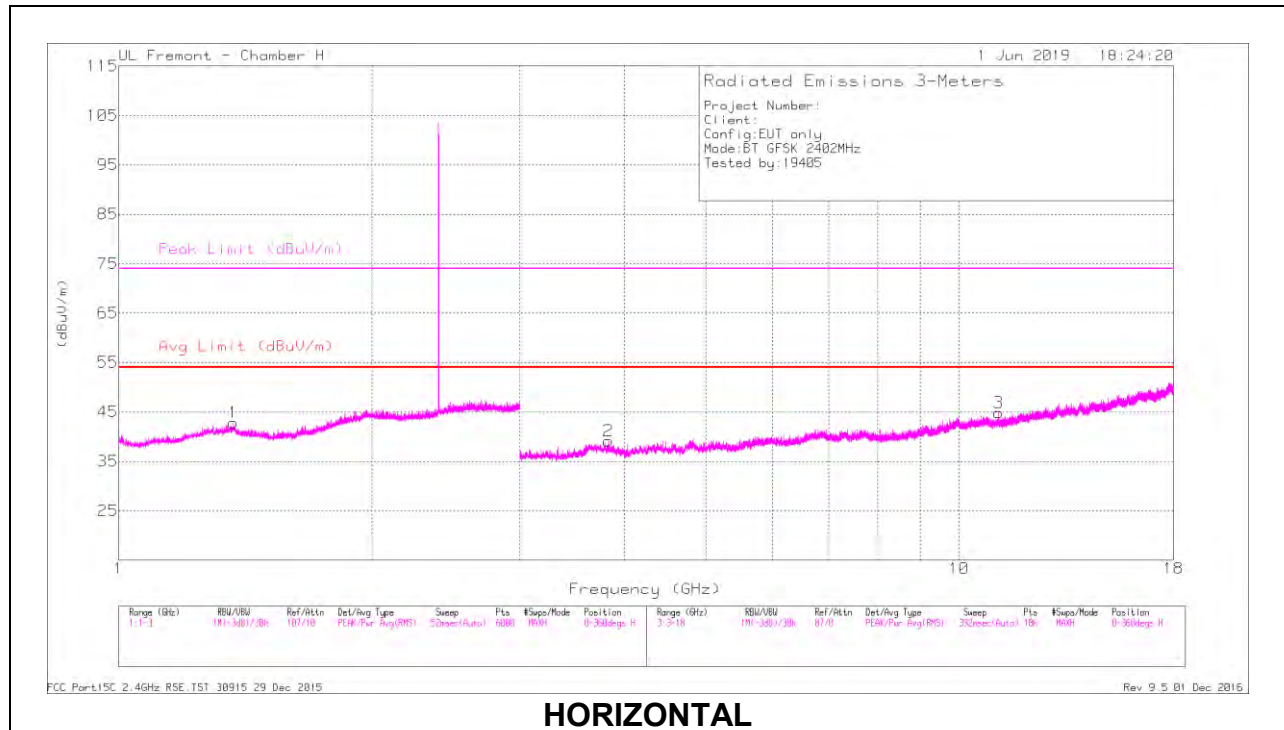
Rev 9.5 01 Dec 2016

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/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	39.99	PK	32.4	-22.1	50.29	-	-	74	-23.71	160	314	V
3	* 2.484	29.68	VA1T	32.4	-22.1	39.98	54	-14.02	-	-	160	314	V
4	* 2.484	29.69	VA1T	32.4	-22.1	39.99	54	-14.01	-	-	160	314	V
2	2.527	42.72	PK	32.4	-22.1	53.02	-	-	74	-20.98	160	314	V

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

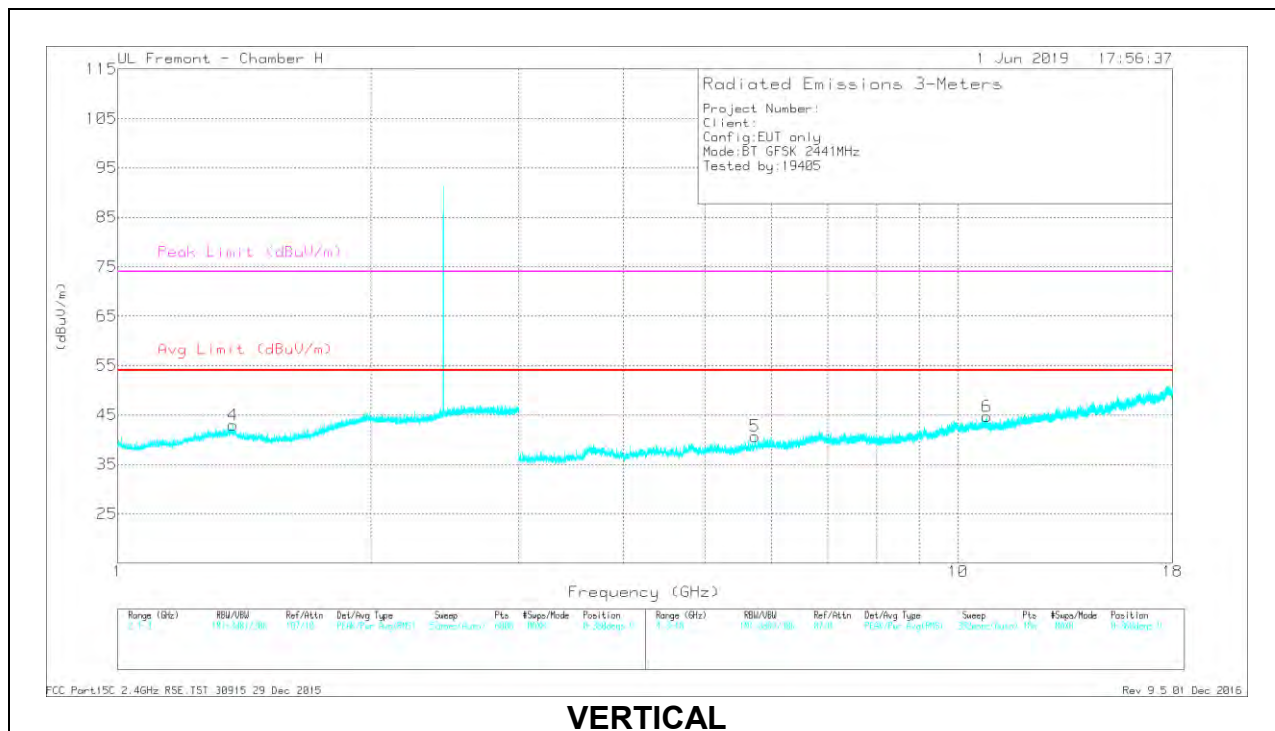
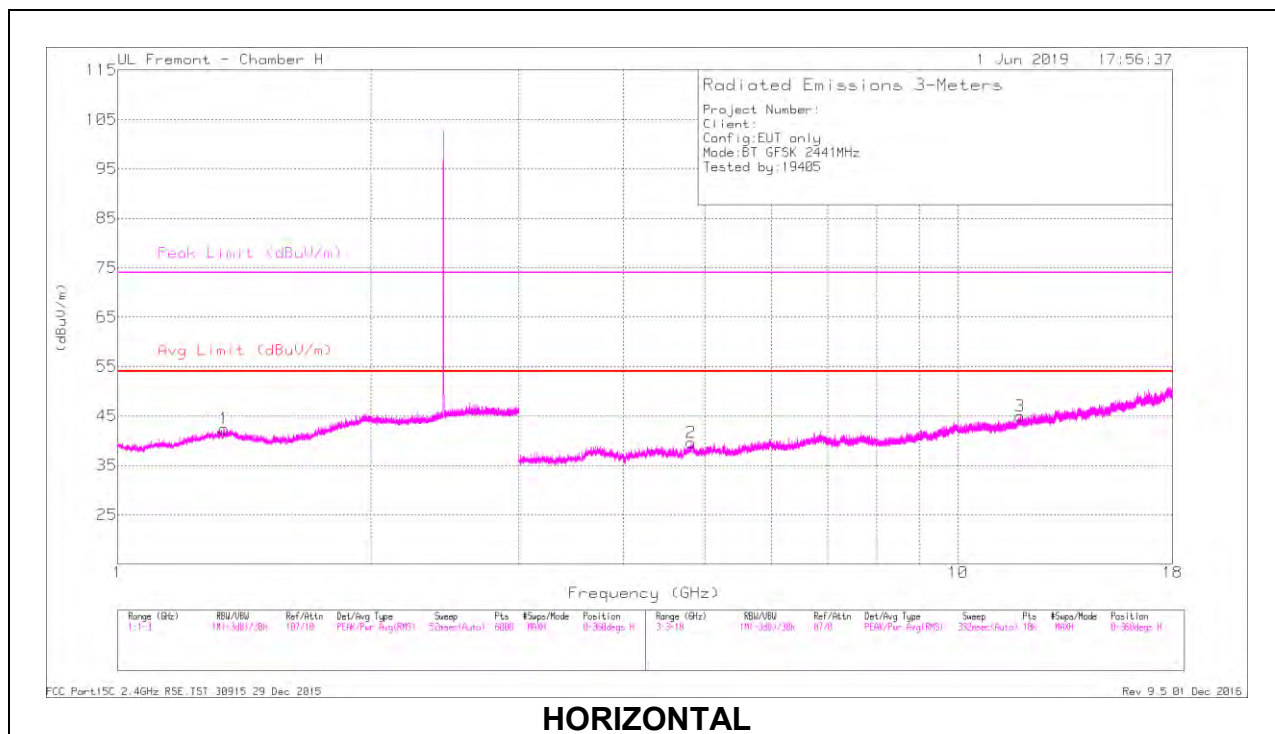
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.37	43.92	PKFH	29.6	-25.2	48.32	-	-	74	-25.68	246	382	H
	* 1.37	31.86	VA1T	29.6	-25.2	36.26	54	-17.74	-	-	246	382	H
4	* 1.342	43.81	PKFH	29.4	-25.3	47.91	-	-	74	-26.09	209	118	V
	* 1.342	31.8	VA1T	29.4	-25.3	35.9	54	-18.1	-	-	209	118	V
2	* 3.826	42	PKFH	33.4	-30.9	44.5	-	-	74	-29.5	88	257	H
	* 3.829	29.72	VA1T	33.4	-30.9	32.22	54	-21.78	-	-	88	257	H
3	* 11.148	33.96	PKFH	37.9	-22.7	49.16	-	-	74	-24.84	152	298	H
	* 11.148	22.49	VA1T	37.9	-22.7	37.69	54	-16.31	-	-	152	298	H
5	* 4.823	40.85	PKFH	34.1	-30.3	44.65	-	-	74	-29.35	245	273	V
	* 4.827	28.95	VA1T	34.1	-30.3	32.75	54	-21.25	-	-	245	273	V
6	* 12.428	35.39	PKFH	39.2	-23.5	51.09	-	-	74	-22.91	28	390	V
	* 12.429	23.3	VA1T	39.2	-23.5	39	54	-15	-	-	28	390	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

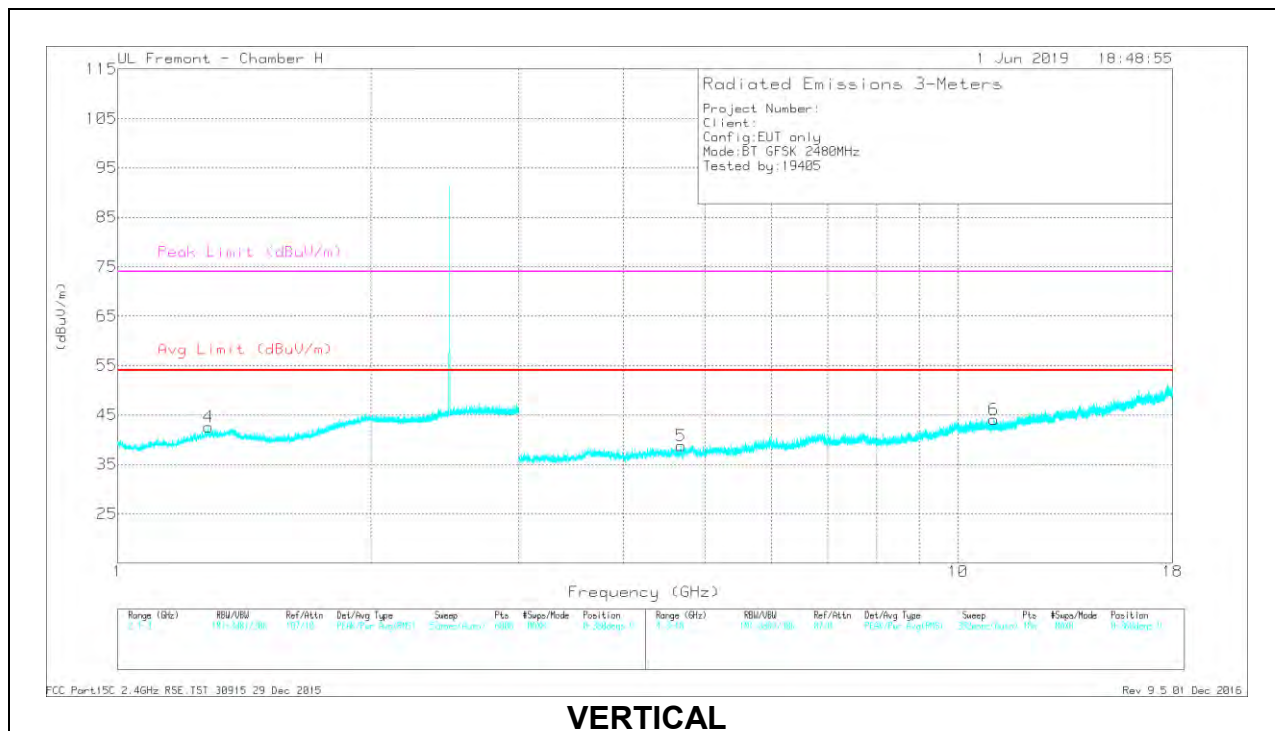
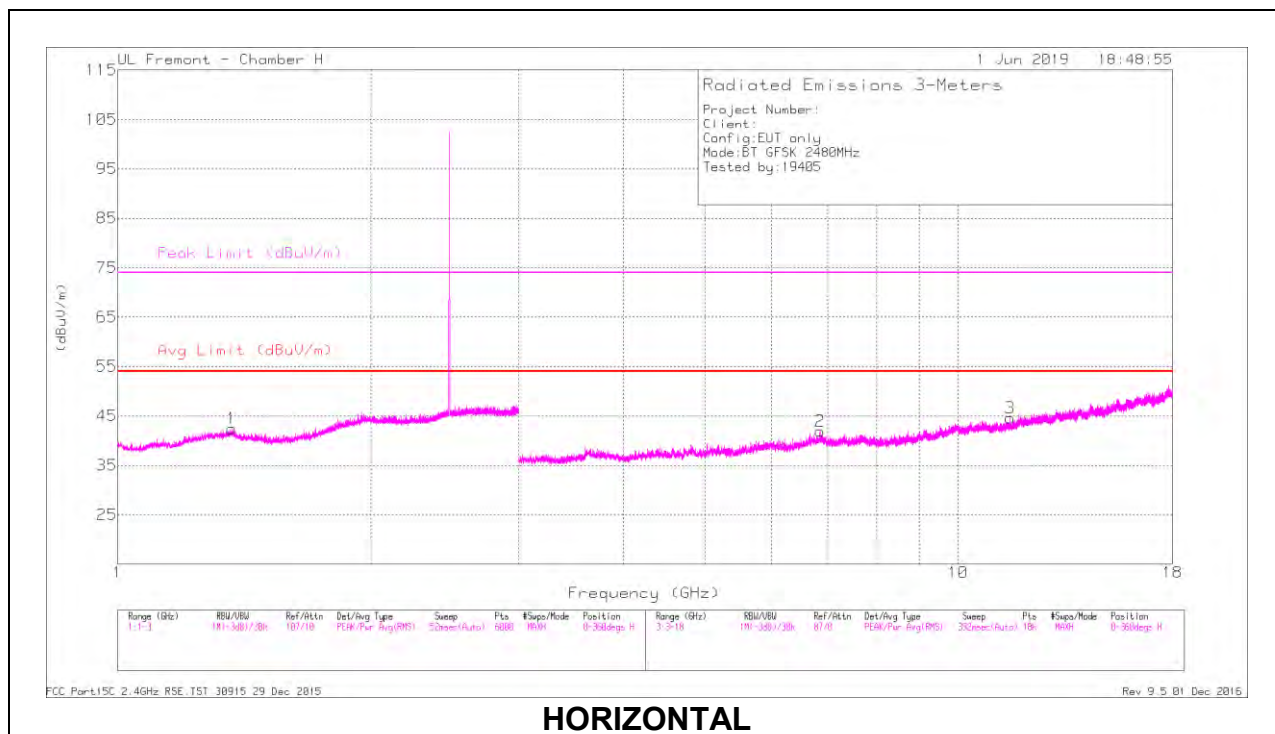
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.339	43.33	PKFH	29.4	-25.3	47.43	-	-	74	-26.57	161	280	H
	* 1.338	31.86	VA1T	29.3	-25.3	35.86	54	-18.14	-	-	161	280	H
4	* 1.372	43.87	PKFH	29.5	-25.2	48.17	-	-	74	-25.83	326	266	V
	* 1.373	31.89	VA1T	29.4	-25.2	36.09	54	-17.91	-	-	326	266	V
2	* 4.815	40.34	PKFH	34.1	-30.3	44.14	-	-	74	-29.86	46	322	H
	* 4.817	28.68	VA1T	34.1	-30.3	32.48	54	-21.52	-	-	46	322	H
3	* 11.858	34.9	PKFH	38.7	-22.8	50.8	-	-	74	-23.2	154	224	H
	* 11.861	23	VA1T	38.7	-22.8	38.9	54	-15.1	-	-	154	224	H
6	* 10.833	34.07	PKFH	37.8	-22.9	48.97	-	-	74	-25.03	265	284	V
	* 10.833	22.55	VA1T	37.8	-22.9	37.45	54	-16.55	-	-	265	284	V
5	5.735	38.97	PKFH	35.2	-28.5	45.67	-	-	-	-	310	174	V
	5.736	27.12	VA1T	35.2	-28.5	33.82	-	-	-	-	310	174	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 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	* 1.368	44.67	PKFH	29.7	-25.2	49.17	-	-	74	-24.83	183	233	H
	* 1.368	31.82	VA1T	29.7	-25.2	36.32	54	-17.68	-	-	183	233	H
4	* 1.283	43.76	PKFH	29.2	-25.4	47.56	-	-	74	-26.44	148	178	V
	* 1.281	31.93	VA1T	29.2	-25.4	35.73	54	-18.27	-	-	148	178	V
3	* 11.527	35.33	PKFH	38.3	-23.2	50.43	-	-	74	-23.57	318	149	H
	* 11.526	22.86	VA1T	38.3	-23.2	37.96	54	-16.04	-	-	318	149	H
5	* 4.687	40.66	PKFH	34	-30	44.66	-	-	74	-29.34	40	213	V
	* 4.685	28.57	VA1T	34.1	-30	32.67	54	-21.33	-	-	40	213	V
6	* 11.024	35.33	PKFH	37.8	-23.4	49.73	-	-	74	-24.27	296	163	V
	* 11.026	23.07	VA1T	37.8	-23.4	37.47	54	-16.53	-	-	296	163	V
2	6.853	37.68	PKFH	36.6	-27.6	46.68	-	-	-	-	344	222	H
	6.853	25.98	VA1T	36.6	-27.6	34.98	-	-	-	-	344	222	H

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

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

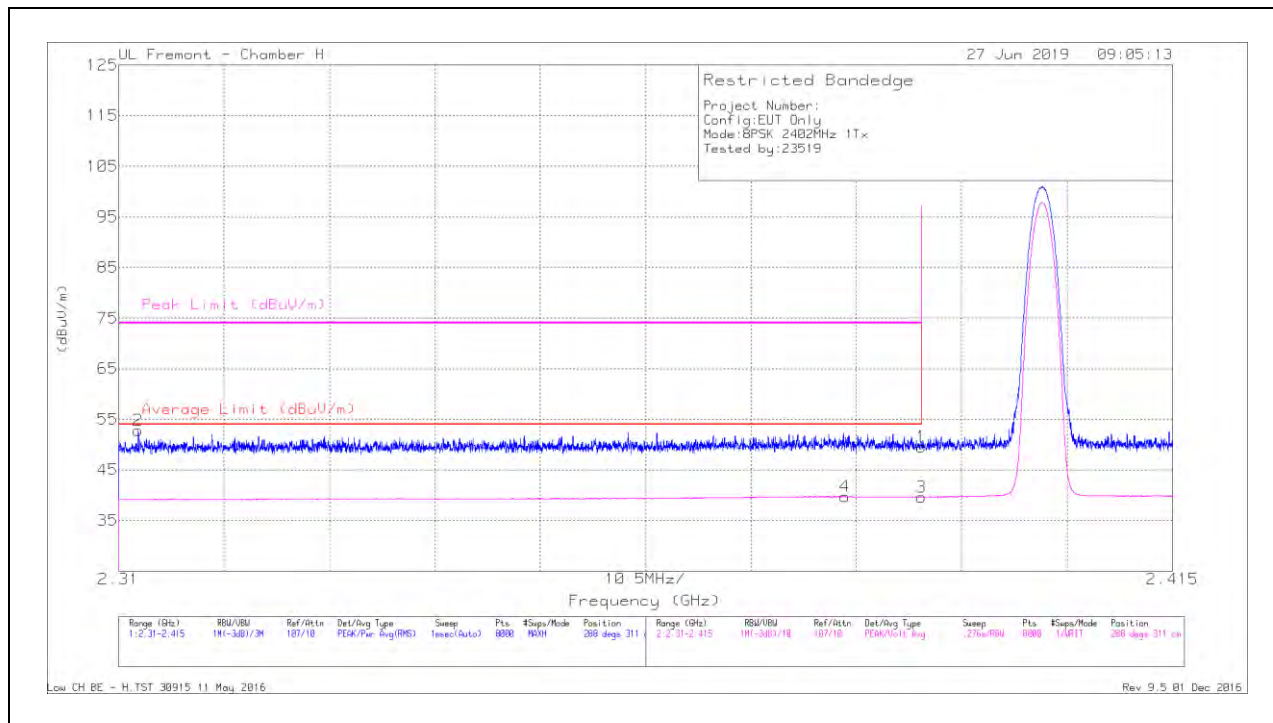
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



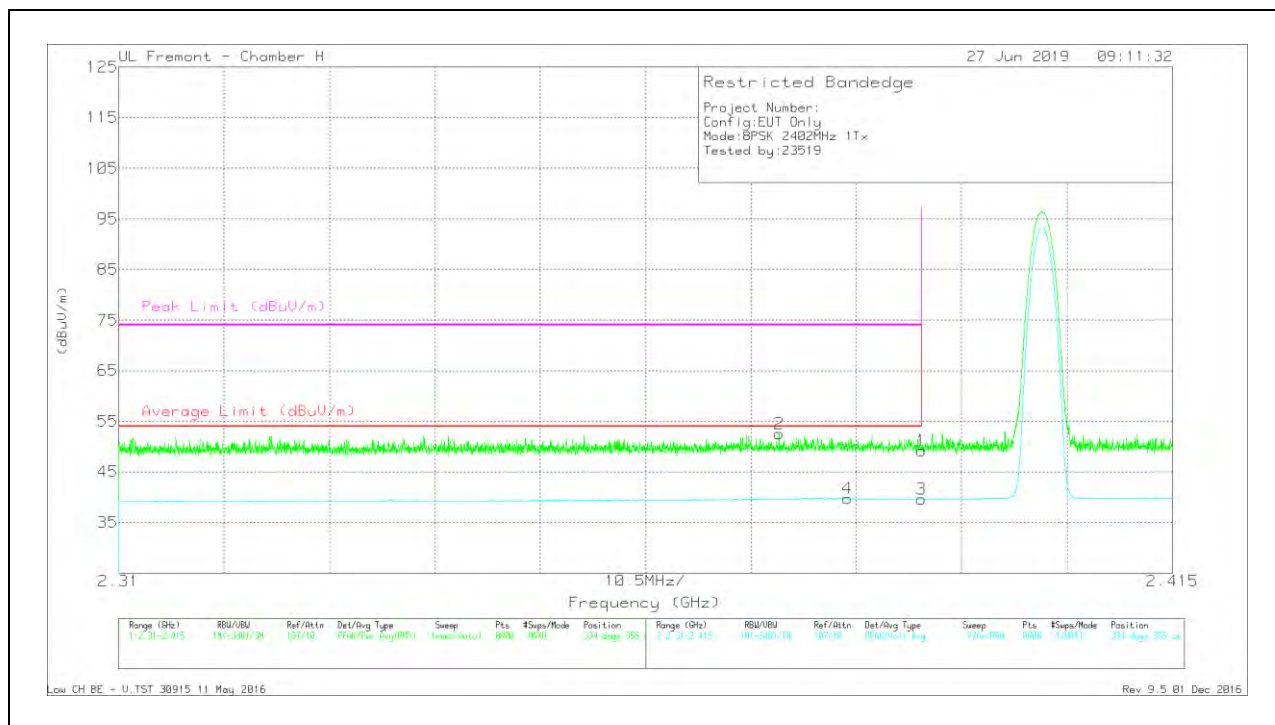
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.95	Pk	32.1	-23.5	49.55	-	-	74	-24.45	288	311	H
2	* 2.312	44.67	Pk	31.8	-23.7	52.77	-	-	74	-21.23	288	311	H
3	* 2.39	31.04	VA1T	32.1	-23.5	39.64	54	-14.36	-	-	288	311	H
4	* 2.382	31.03	VA1T	32.2	-23.5	39.73	54	-14.27	-	-	288	311	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

VERTICAL RESULT

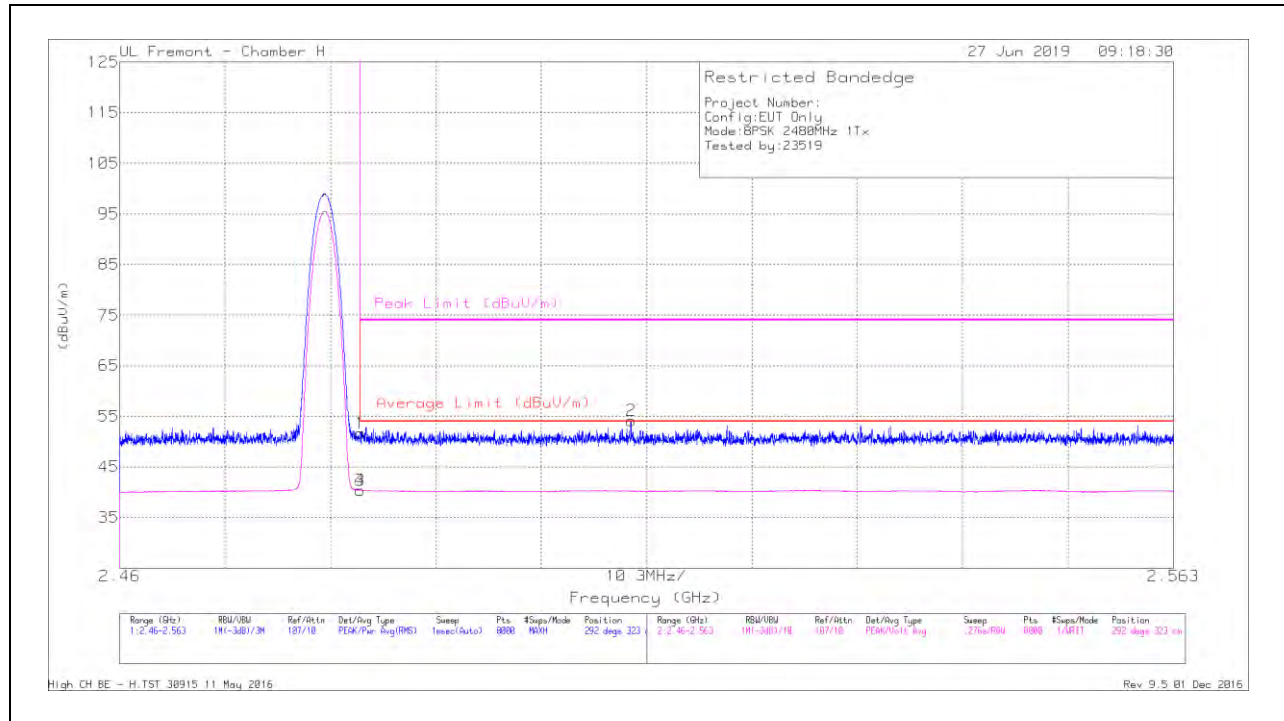


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.61	Pk	32.1	-23.5	49.21	-	-	74	-24.79	334	355	V
2	* 2.376	43.89	Pk	32.1	-23.5	52.49	-	-	74	-21.51	334	355	V
3	* 2.39	31.03	VA1T	32.1	-23.5	39.63	54	-14.37	-	-	334	355	V
4	* 2.383	31.03	VA1T	32.2	-23.5	39.73	54	-14.27	-	-	334	355	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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

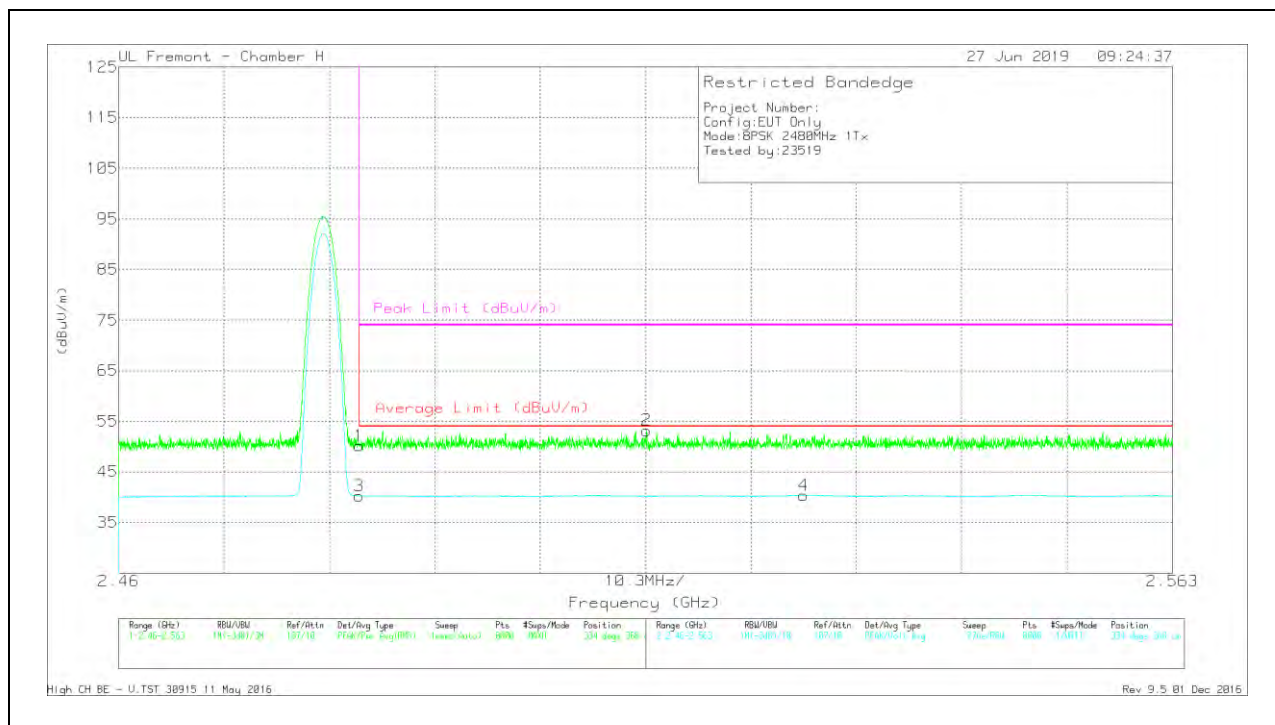
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.46	Pk	32.5	-23.3	51.66	-	-	74	-22.34	292	323	H
3	* 2.484	31.17	VA1T	32.5	-23.3	40.37	54	-13.63	-	-	292	323	H
4	* 2.484	31.17	VA1T	32.5	-23.3	40.37	54	-13.63	-	-	292	323	H
2	2.51	44.69	Pk	32.6	-23.2	54.09	-	-	74	-19.91	292	323	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	40.97	Pk	32.5	-23.3	50.17	-	-	74	-23.83	334	368	V
3	* 2.484	31.06	VA1T	32.5	-23.3	40.26	54	-13.74	-	-	334	368	V
2	2.512	43.91	Pk	32.6	-23.3	53.21	-	-	74	-20.79	334	368	V
4	2.527	30.9	VA1T	32.6	-23.1	40.4	54	-13.6	-	-	334	368	V

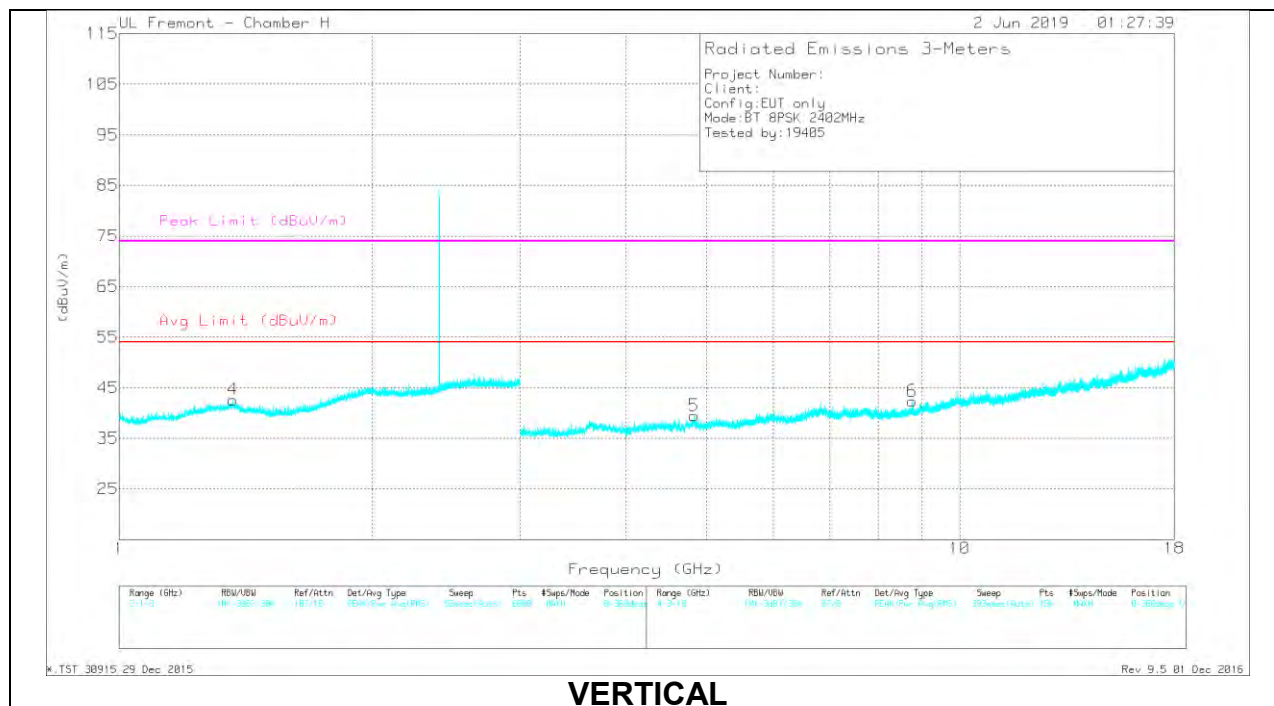
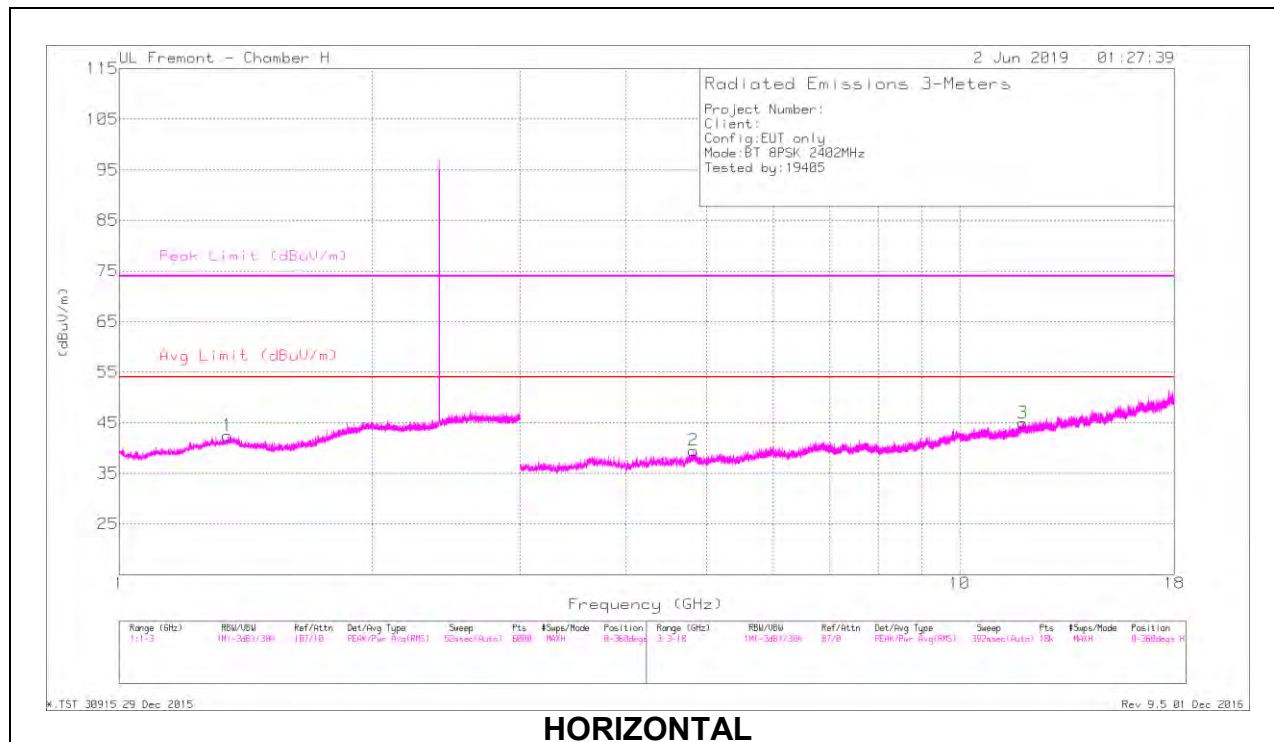
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

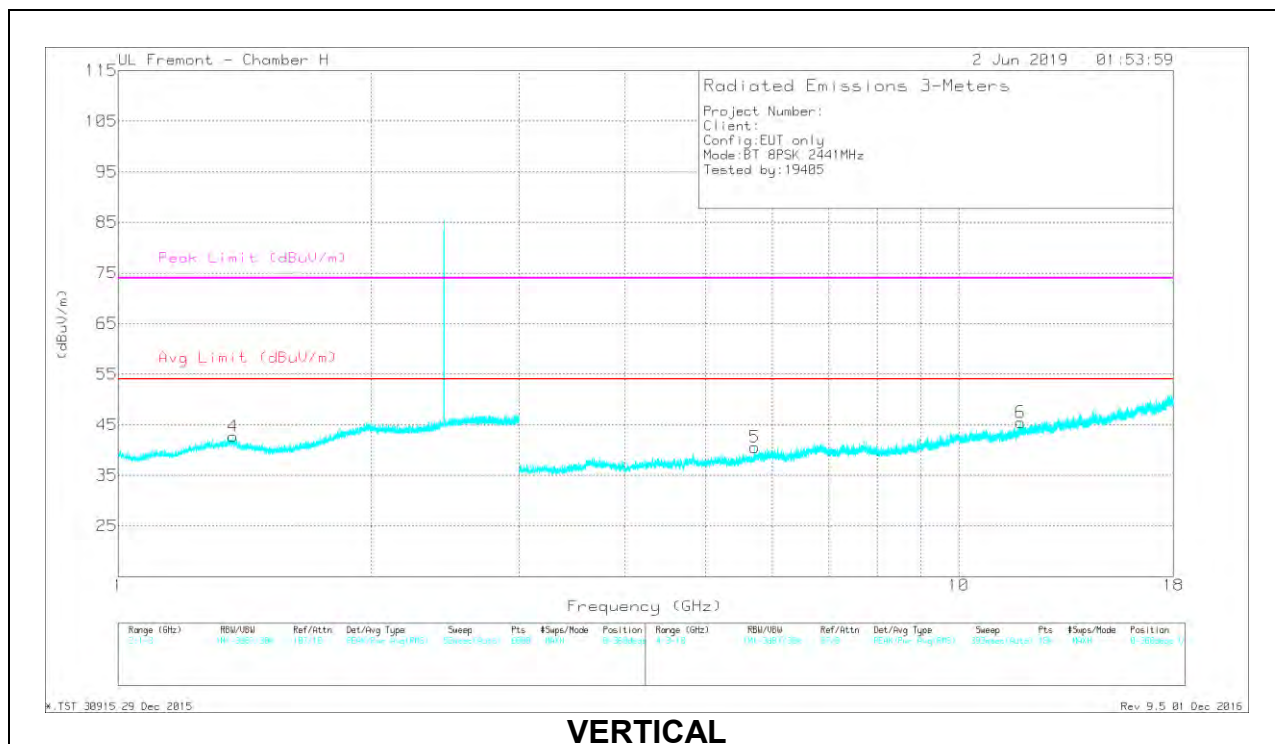
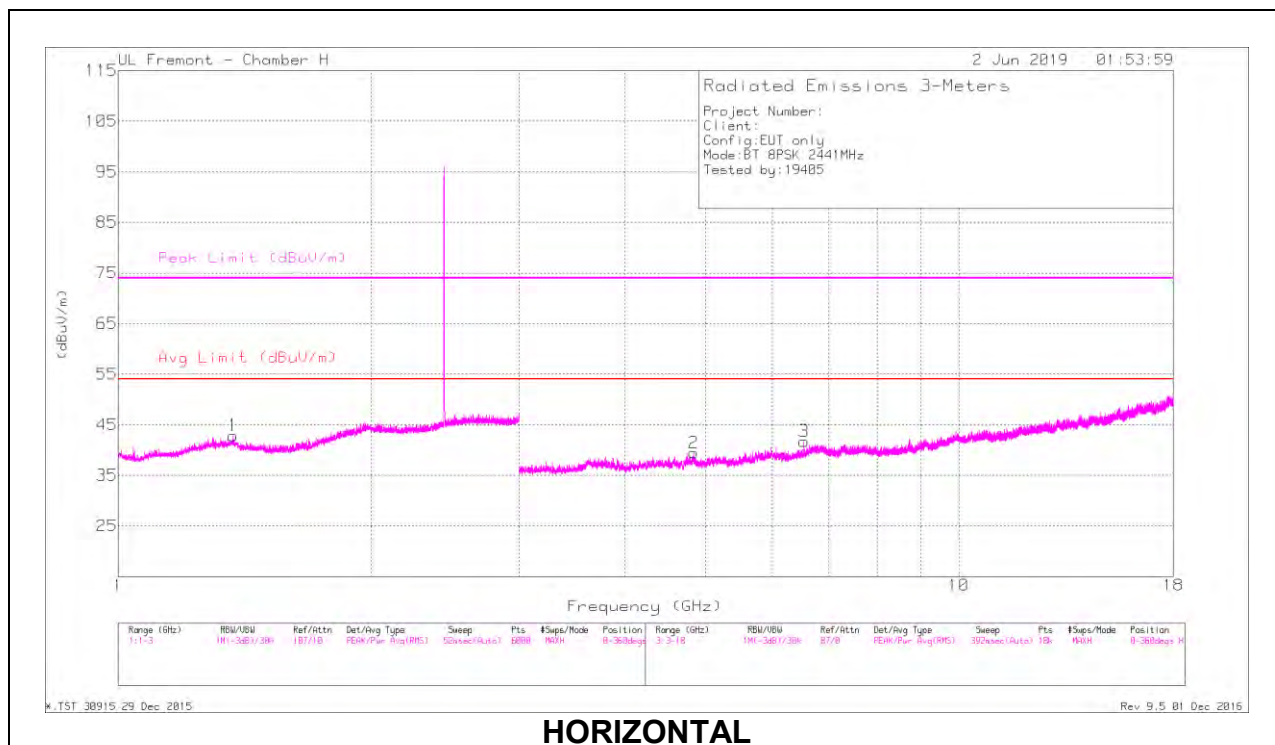
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.346	43.31	PKFH	29.4	-25.3	47.41	-	-	74	-26.59	344	220	H
	* 1.346	31.81	VA1T	29.4	-25.3	35.91	54	-18.09	-	-	344	220	H
4	* 1.364	43.38	PKFH	29.6	-25.2	47.78	-	-	74	-26.22	291	148	V
	* 1.366	31.85	VA1T	29.7	-25.2	36.35	54	-17.65	-	-	291	148	V
2	* 4.823	40.64	PKFH	34.1	-30.3	44.44	-	-	74	-29.56	173	369	H
	* 4.822	28.9	VA1T	34.1	-30.4	32.6	54	-21.4	-	-	173	369	H
3	* 11.88	34.83	PKFH	38.7	-22.7	50.83	-	-	74	-23.17	53	237	H
	* 11.877	22.95	VA1T	38.7	-22.7	38.95	54	-15.05	-	-	53	237	H
5	* 4.83	40.84	PKFH	34.1	-30.4	44.54	-	-	74	-29.46	264	119	V
	* 4.832	29.07	VA1T	34.1	-30.4	32.77	54	-21.23	-	-	264	119	V
6	8.784	36.2	PKFH	36.1	-25.3	47	-	-	-	-	327	191	V
	8.784	24.22	VA1T	36.1	-25.3	35.02	-	-	-	-	327	191	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

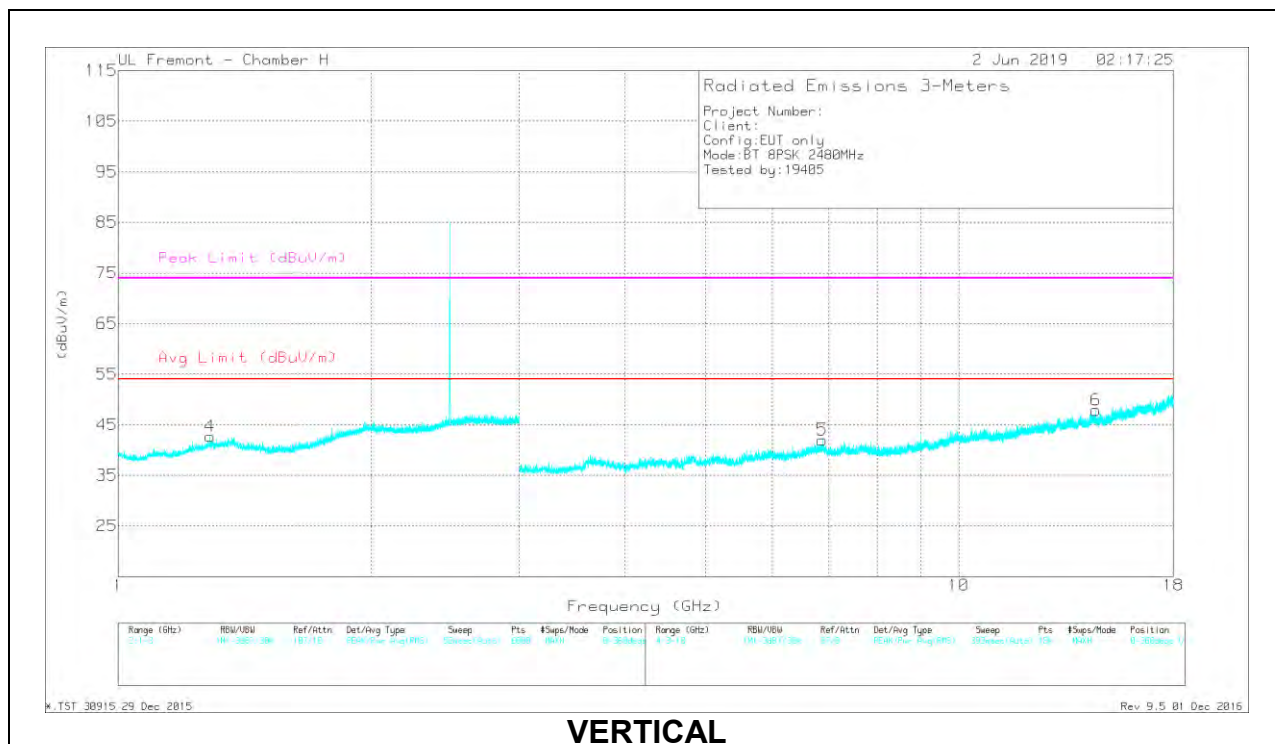
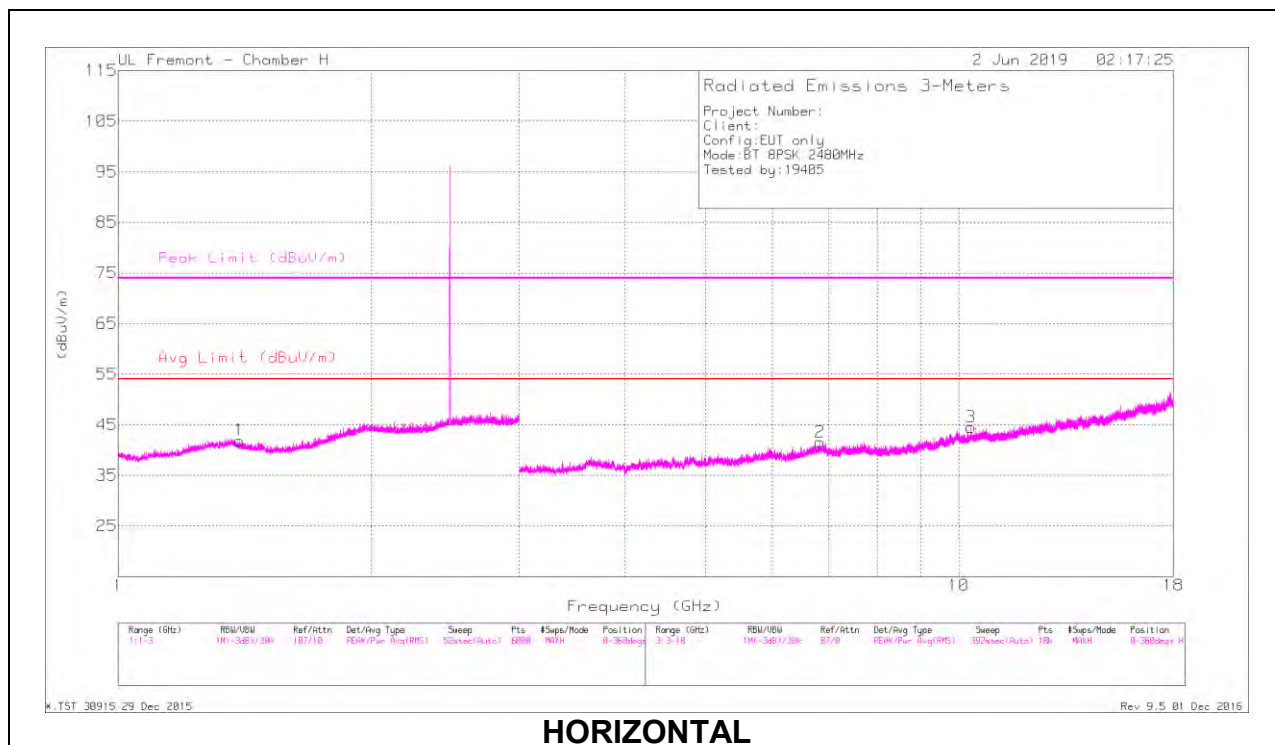
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.371	43.44	PKFH	29.6	-25.2	47.84	-	-	74	-26.16	47	153	H
	* 1.37	31.87	VA1T	29.6	-25.2	36.27	54	-17.73	-	-	47	153	H
4	* 1.368	43.76	PKFH	29.7	-25.2	48.26	-	-	74	-25.74	137	226	V
	* 1.368	31.87	VA1T	29.7	-25.2	36.37	54	-17.63	-	-	137	226	V
2	* 4.836	40.18	PKFH	34	-30.3	43.88	-	-	74	-30.12	82	138	H
	* 4.836	28.66	VA1T	34	-30.3	32.36	54	-21.64	-	-	82	138	H
6	* 11.852	34.42	PKFH	38.7	-22.9	50.22	-	-	74	-23.78	216	270	V
	* 11.849	22.82	VA1T	38.7	-22.9	38.62	54	-15.38	-	-	216	270	V
5	5.723	39.11	PKFH	35.1	-28.8	45.41	-	-	-	-	340	154	V
	5.723	27.08	VA1T	35.1	-28.8	33.38	-	-	-	-	340	154	V
3	6.543	37.59	PKFH	36.2	-27.9	45.89	-	-	-	-	291	188	H
	6.546	26.34	VA1T	36.2	-27.9	34.64	-	-	-	-	291	188	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

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	* 1.394	43.29	PKFH	28.9	-25.1	47.09	-	-	74	-26.91	199	363	H
	* 1.393	31.76	VA1T	28.9	-25.1	35.56	54	-18.44	-	-	199	363	H
4	* 1.287	43.73	PKFH	29.2	-25.4	47.53	-	-	74	-26.47	256	183	V
	* 1.285	31.92	VA1T	29.2	-25.4	35.72	54	-18.28	-	-	256	183	V
2	6.836	26.52	VA1T	36.7	-28	35.22	-	-	-	-	316	239	H
	6.838	37.88	PKFH	36.8	-27.9	46.78	-	-	-	-	316	239	H
5	6.881	36.71	PKFH	36.7	-27	46.41	-	-	-	-	294	178	V
	6.881	25.39	VA1T	36.7	-27	35.09	-	-	-	-	294	178	V
3	10.335	34.61	PKFH	37.4	-22.7	49.31	-	-	-	-	126	260	H
	10.335	22.65	VA1T	37.4	-22.7	37.35	-	-	-	-	126	260	H
6	14.555	35.33	PKFH	40	-21.9	53.43	-	-	-	-	358	248	V
	14.555	22.88	VA1T	39.9	-21.9	40.88	-	-	-	-	358	248	V

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

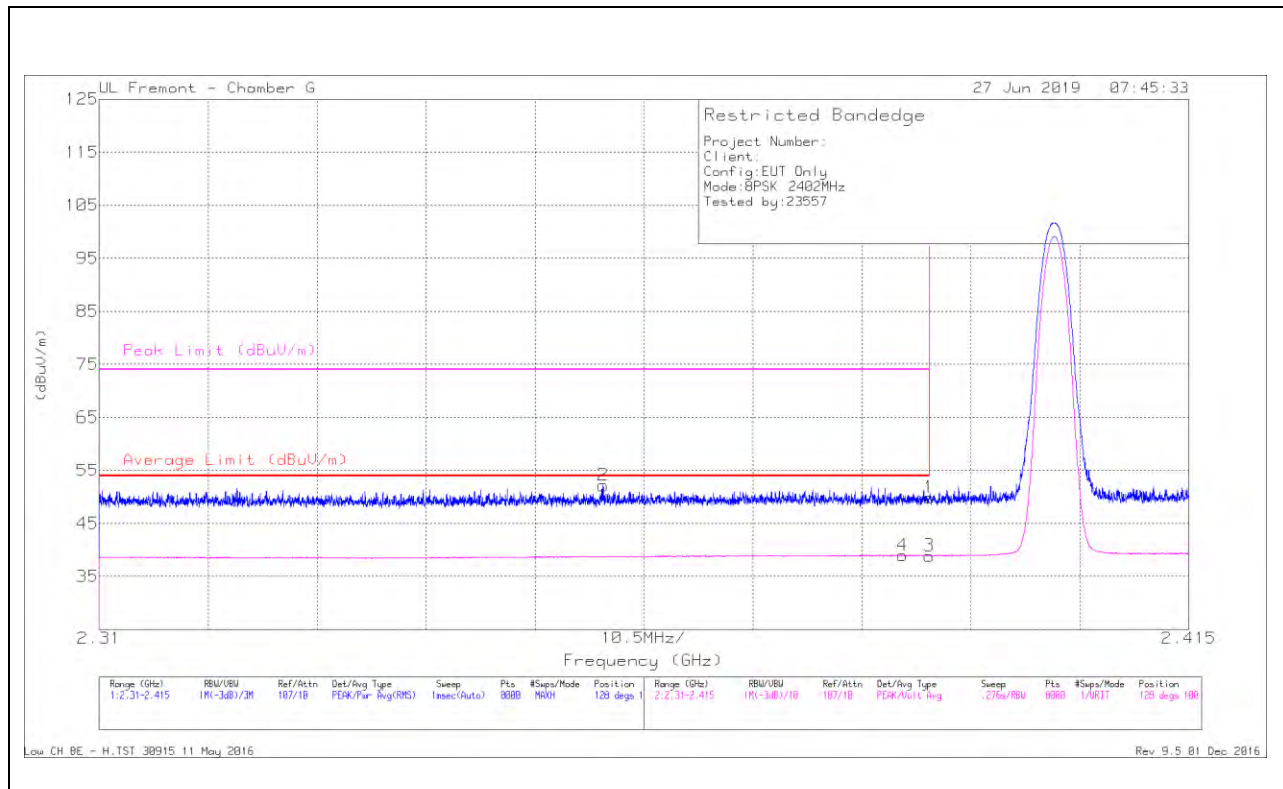
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 3

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT



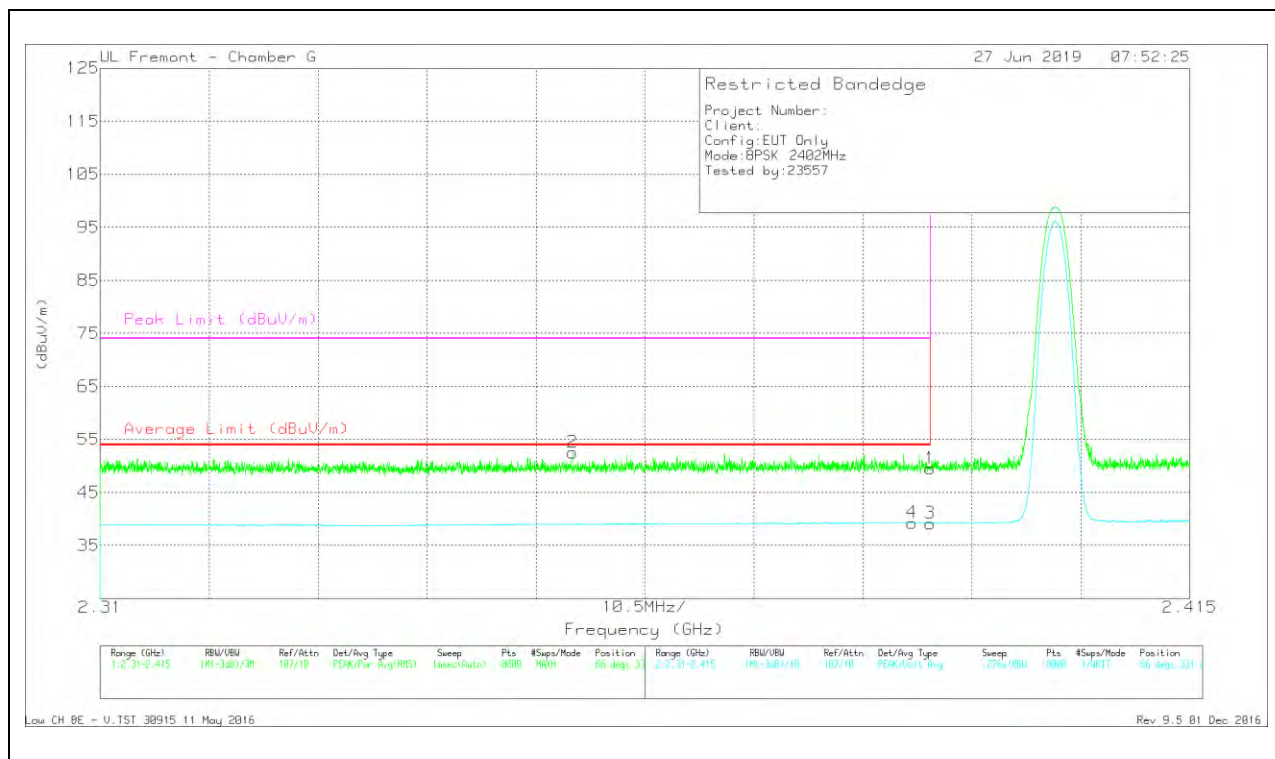
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.2	Pk	31.9	-22.2	49.9	-	-	74	-24.1	128	100	H
2	* 2.359	42.67	Pk	31.7	-22.2	52.17	-	-	74	-21.83	128	100	H
3	* 2.39	29.2	VA1T	31.9	-22.2	38.9	54	-15.1	-	-	128	100	H
4	* 2.387	29.27	VA1T	31.9	-22.2	38.97	54	-15.03	-	-	128	100	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

VERTICAL RESULT

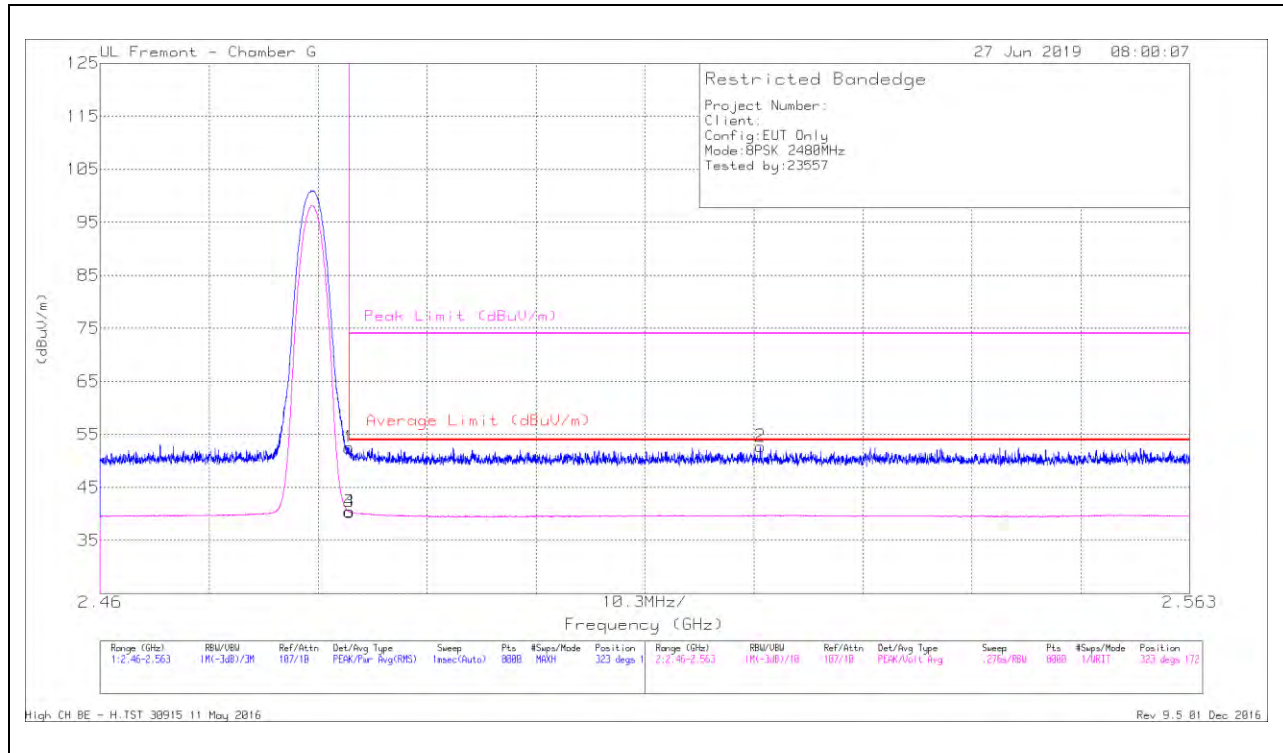


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.84	Pk	31.9	-22.2	49.54	-	-	74	-24.46	86	331	V
2	* 2.356	43.03	Pk	31.7	-22.2	52.53	-	-	74	-21.47	86	331	V
3	* 2.39	29.45	VA1T	31.9	-22.2	39.15	54	-14.85	-	-	86	331	V
4	* 2.388	29.57	VA1T	31.9	-22.2	39.27	54	-14.73	-	-	86	331	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

BANEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

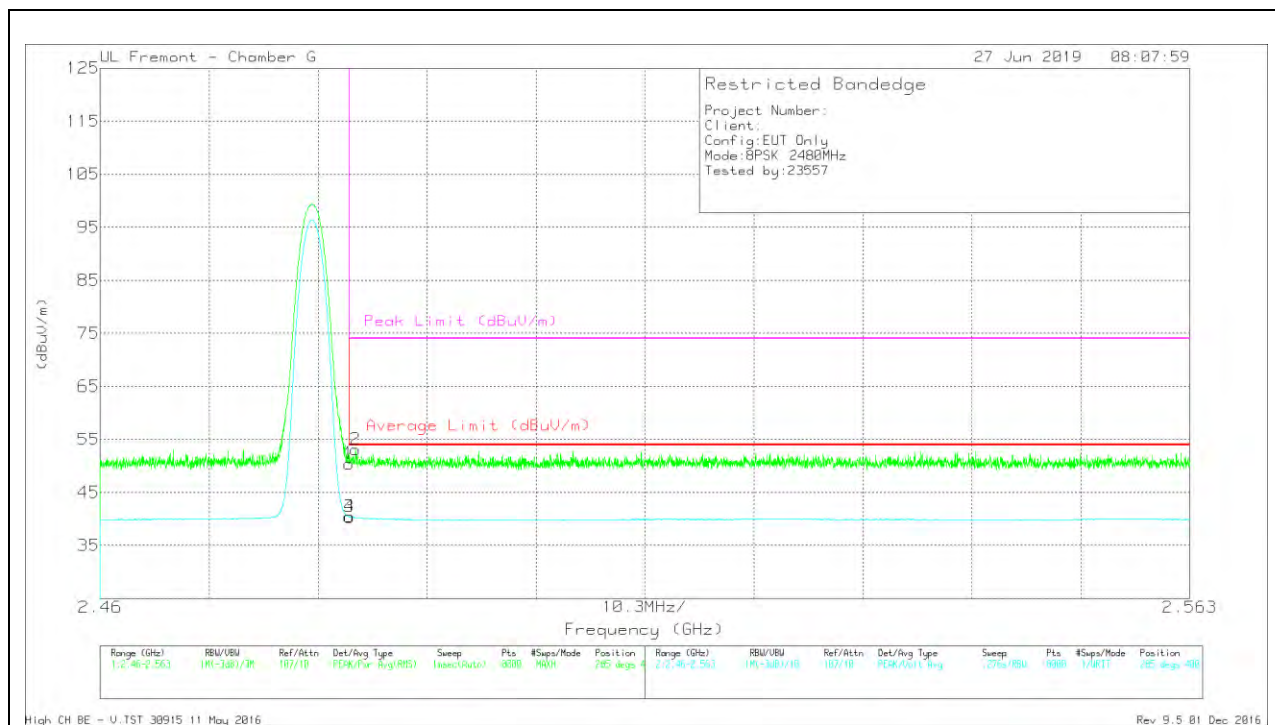
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.23	Pk	32.4	-22.1	52.53	-	-	74	-21.47	323	172	H
3	* 2.484	30.14	VA1T	32.4	-22.1	40.44	54	-13.56	-	-	323	172	H
4	* 2.484	30.09	VA1T	32.4	-22.1	40.39	54	-13.61	-	-	323	172	H
2	2.522	42.44	Pk	32.4	-22.1	52.74	-	-	74	-21.26	323	172	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/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	40.12	Pk	32.4	-22.1	50.42	-	-	74	-23.58	285	400	V
2	* 2.484	42.8	Pk	32.4	-22.1	53.1	-	-	74	-20.9	285	400	V
3	* 2.484	30.11	VA1T	32.4	-22.1	40.41	54	-13.59	-	-	285	400	V
4	* 2.484	30.09	VA1T	32.4	-22.1	40.39	54	-13.61	-	-	285	400	V

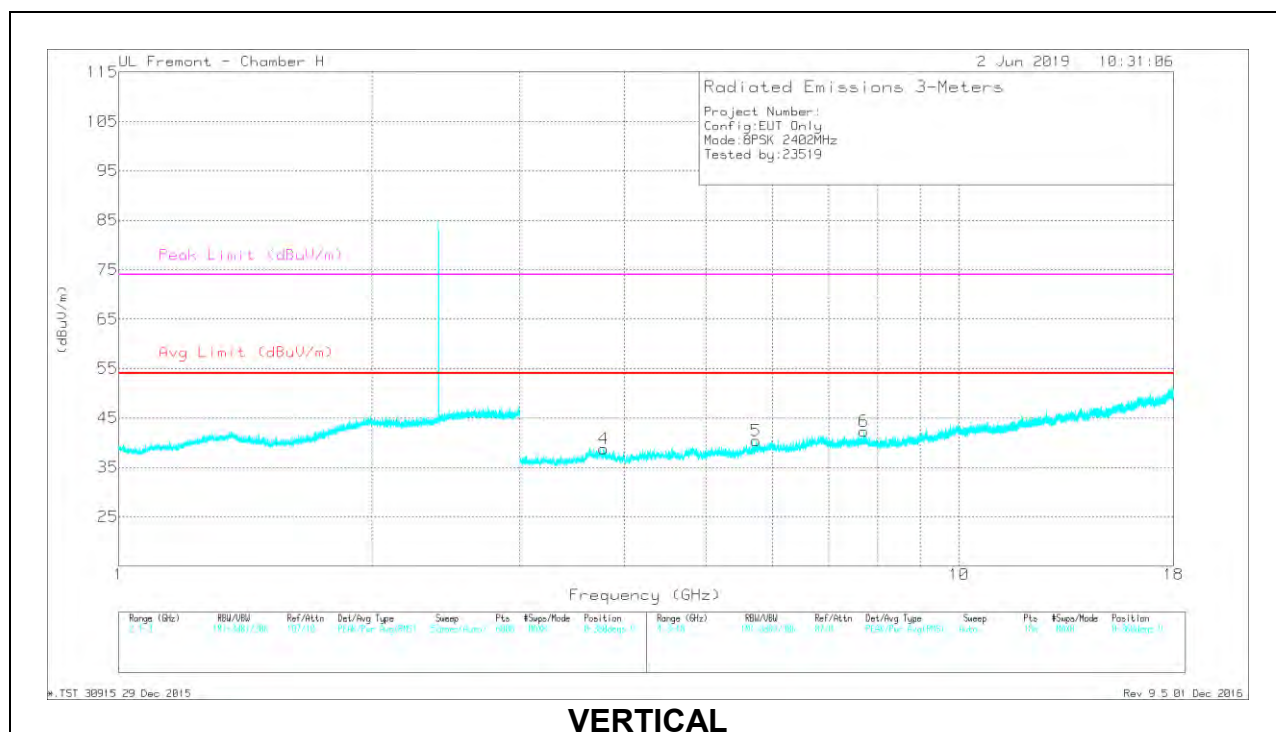
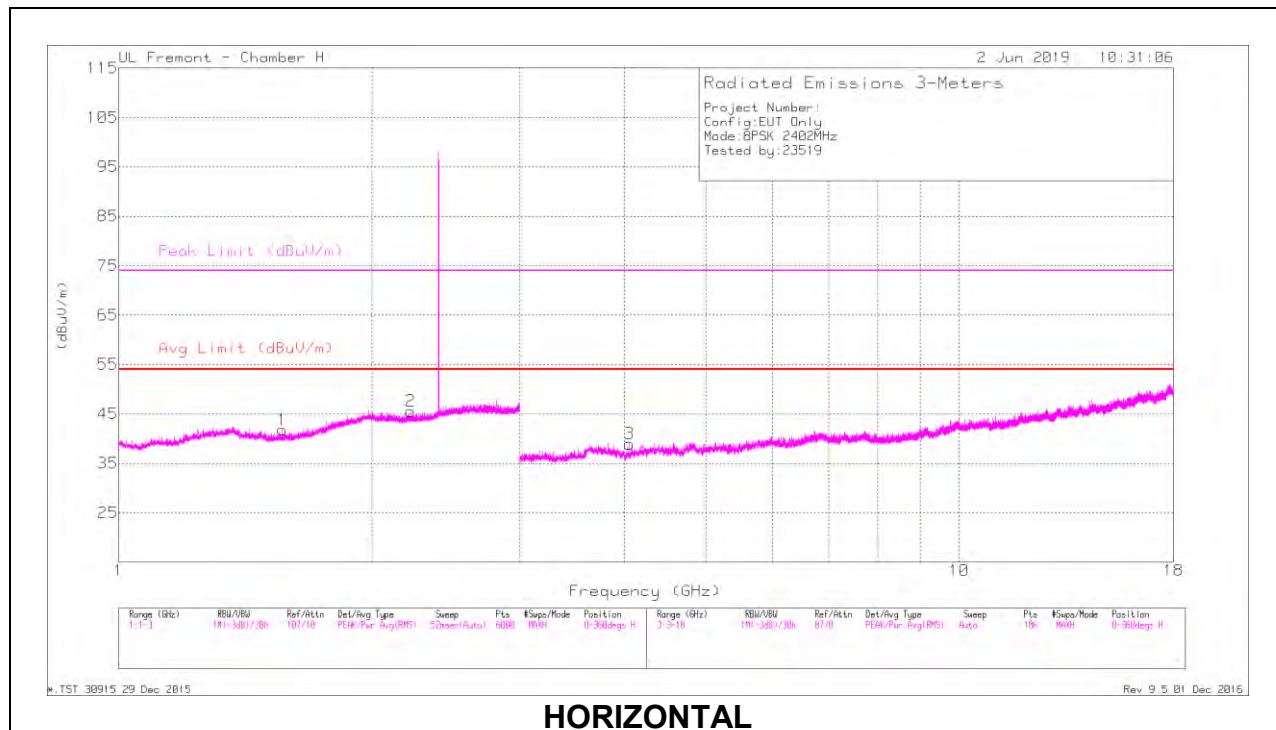
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

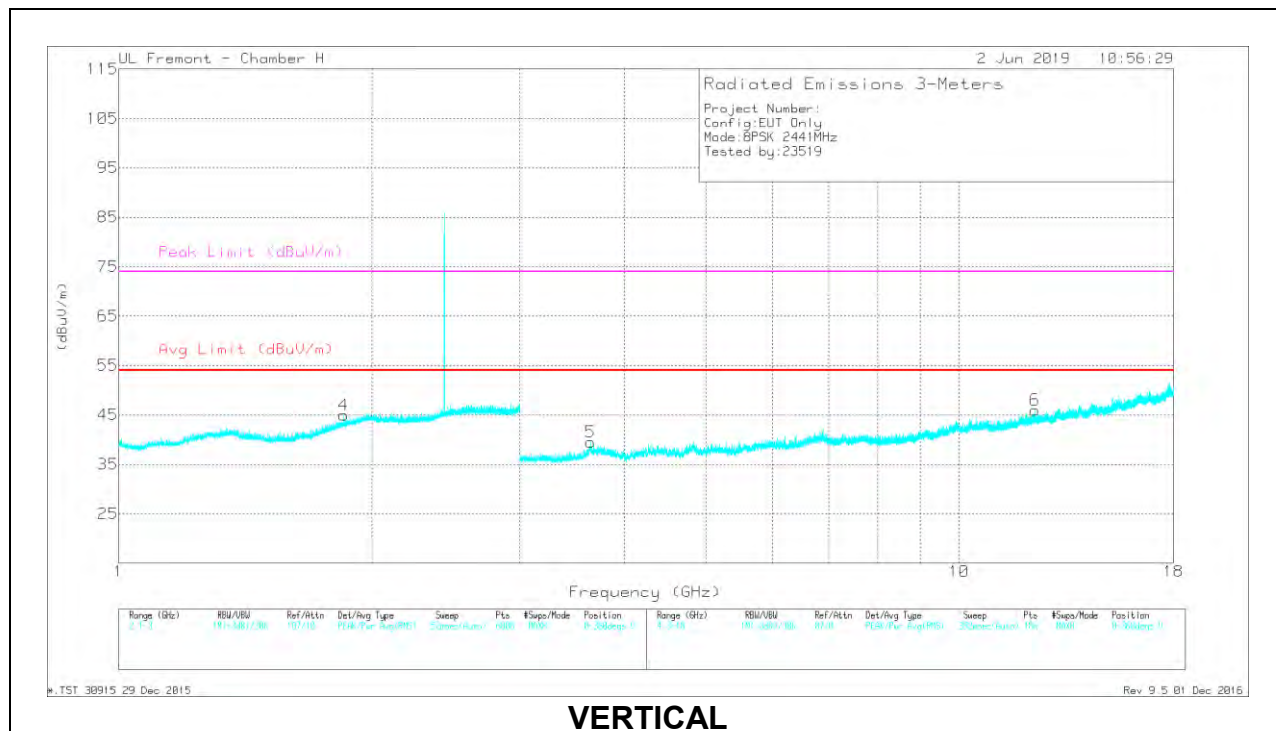
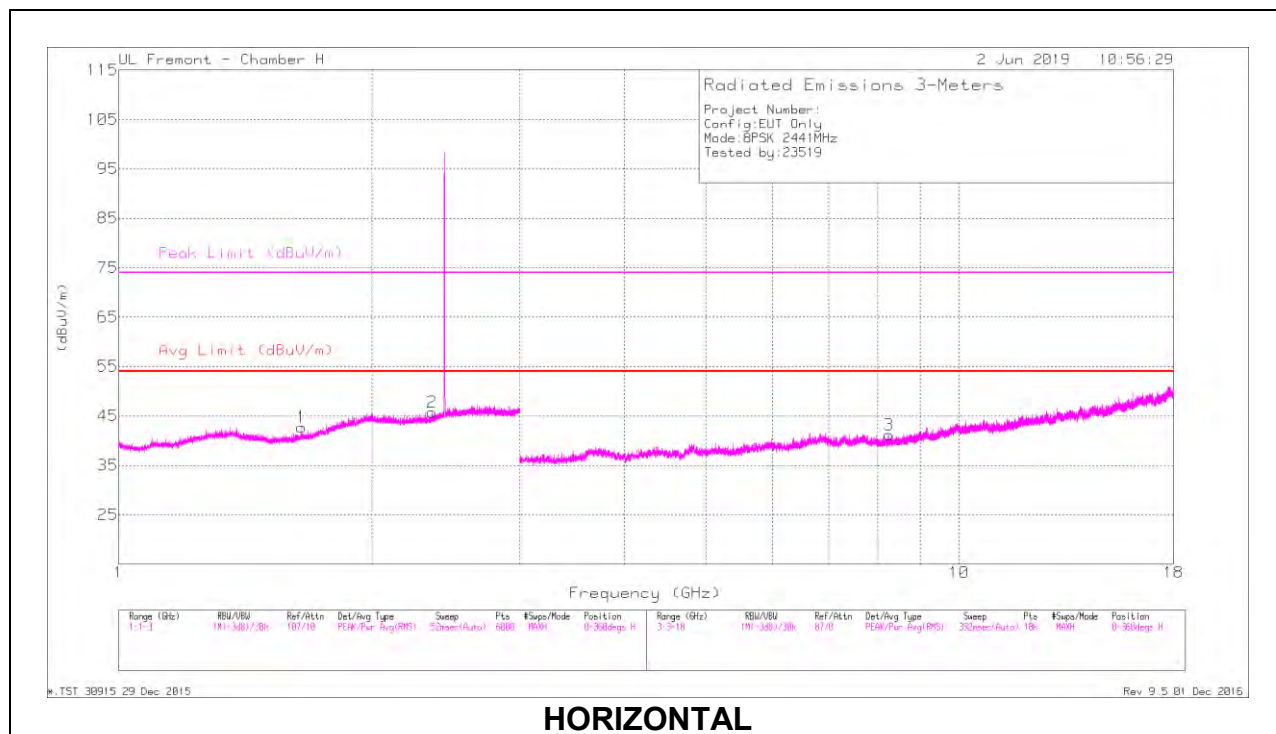
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.565	43.43	PKFH	28	-24.7	46.73	-	-	74	-27.27	91	152	H
	* 1.563	31.5	VA1T	28	-24.7	34.8	54	-19.2	-	-	91	152	H
2	* 2.224	43.31	PKFH	31.4	-23.9	50.81	-	-	74	-23.19	185	181	H
	* 2.226	31.15	VA1T	31.3	-23.9	38.55	54	-15.45	-	-	185	181	H
3	* 4.053	40.37	PKFH	33.3	-30.5	43.17	-	-	74	-30.83	121	203	H
	* 4.053	28.4	VA1T	33.3	-30.5	31.2	54	-22.8	-	-	121	203	H
4	* 3.775	41.14	PKFH	33.3	-31	43.44	-	-	74	-30.56	192	219	V
	* 3.777	29.39	VA1T	33.3	-31	31.69	54	-22.31	-	-	192	219	V
6	* 7.701	37.93	PKFH	36.6	-26.7	47.83	-	-	74	-26.17	183	171	V
	* 7.7	25.23	VA1T	36.6	-26.7	35.13	54	-18.87	-	-	183	171	V
5	5.736	39.15	PKFH	35.2	-28.5	45.85	-	-	74	-28.15	265	132	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

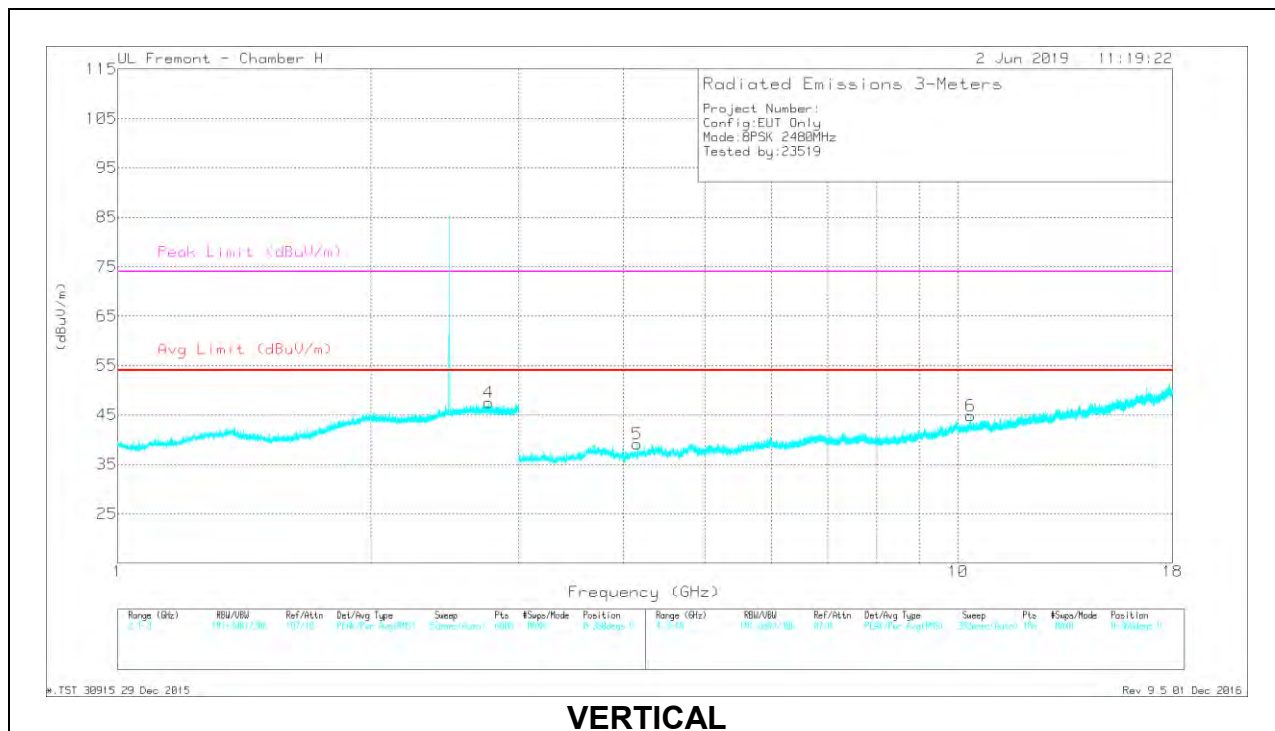
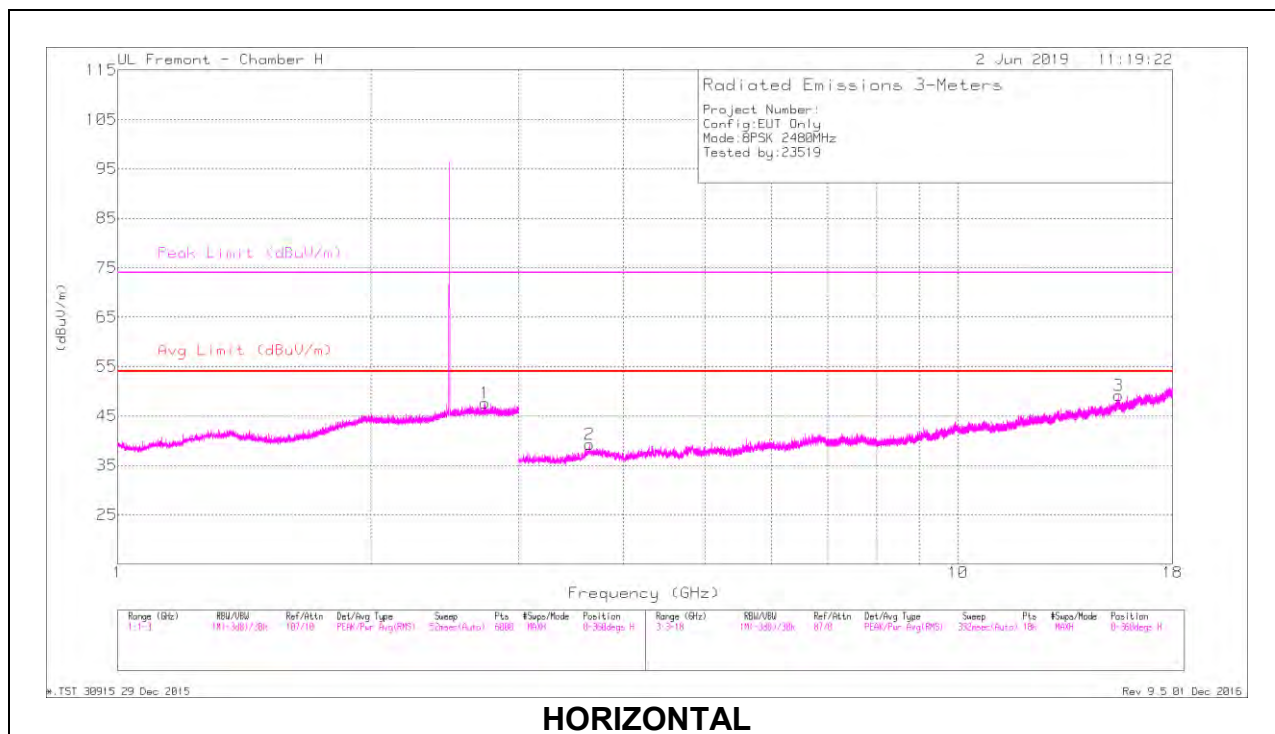
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.36	42.35	PKFH	31.4	-23.6	50.15	-	-	74	-23.85	225	161	H
	* 2.359	31.07	VA1T	31.4	-23.6	38.87	54	-15.13	-	-	225	161	H
3	* 8.248	36.51	PKFH	35.9	-25.8	46.61	-	-	74	-27.39	248	143	H
	* 8.25	24.55	VA1T	35.9	-25.8	34.65	54	-19.35	-	-	248	143	H
5	* 3.644	40.4	PKFH	33.1	-29.6	43.9	-	-	74	-30.1	64	199	V
	* 3.647	28.05	VA1T	33.1	-29.6	31.55	54	-22.45	-	-	64	199	V
6	* 12.321	35.97	PKFH	39	-22.9	52.07	-	-	74	-21.93	217	165	V
	* 12.321	22.95	VA1T	39	-22.9	39.05	54	-14.95	-	-	217	165	V
1	1.652	43.17	PKFH	28.5	-24.6	47.07	-	-	74	-26.93	273	134	H
4	1.853	43	PKFH	30.9	-24.3	49.6	-	-	74	-24.4	167	198	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 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	* 2.732	42.72	PKFH	32.5	-23.2	52.02	-	-	74	-21.98	86	124	H
	* 2.732	30.96	VA1T	32.5	-23.2	40.26	54	-13.74	-	-	86	124	H
4	* 2.761	43.43	PKFH	32.5	-23.1	52.83	-	-	74	-21.17	142	143	V
	* 2.762	30.92	VA1T	32.5	-23.1	40.32	54	-13.68	-	-	142	143	V
2	* 3.643	39.66	PKFH	33.1	-29.6	43.16	-	-	74	-30.84	149	209	H
	* 3.647	28.04	VA1T	33.2	-29.6	31.64	54	-22.36	-	-	149	209	H
3	* 15.532	35.67	PKFH	40.9	-22.2	54.37	-	-	74	-19.63	237	154	H
	* 15.532	23.11	VA1T	40.9	-22.2	41.81	54	-12.19	-	-	237	154	H
5	* 4.154	40.2	PKFH	33.2	-30.8	42.6	-	-	74	-31.4	161	220	V
	* 4.153	28.93	VA1T	33.2	-30.8	31.33	54	-22.67	-	-	161	220	V
6	10.358	34.78	PKFH	37.5	-22.5	49.78	-	-	74	-24.44	283	167	V

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

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

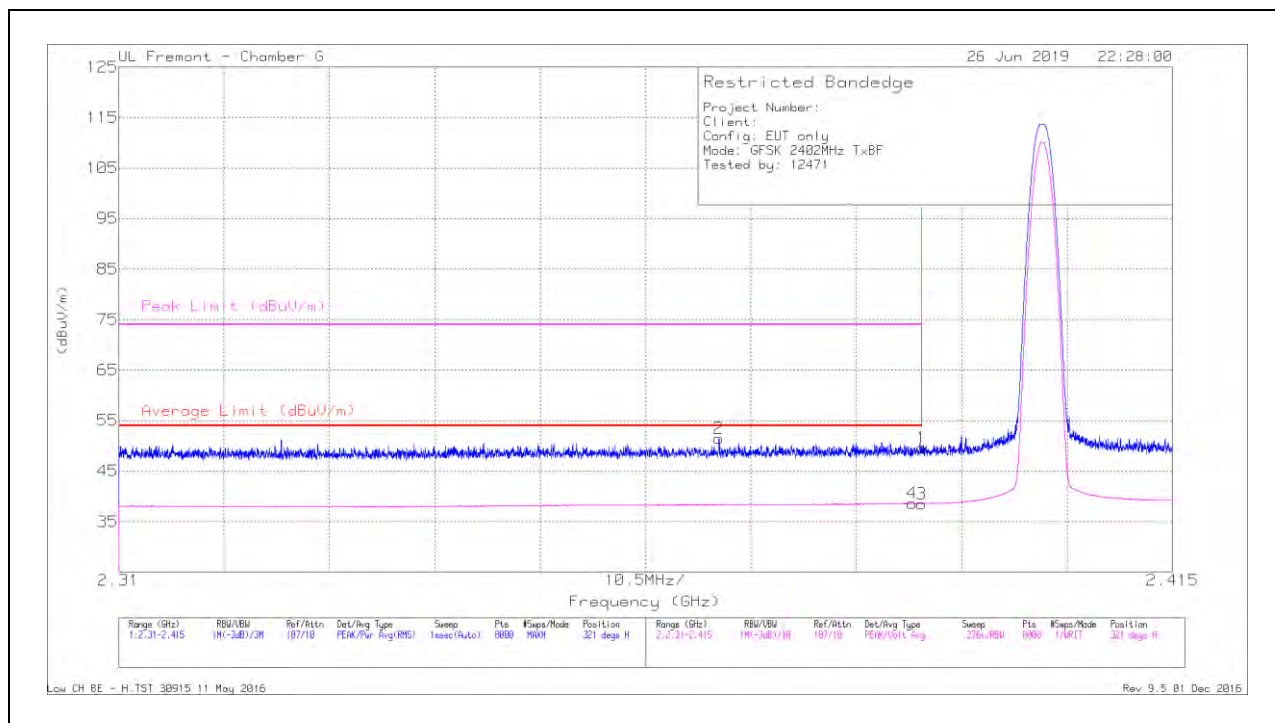
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.2. BEAMFORMING TRANSMITTER ABOVE 1 GHz

9.2.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



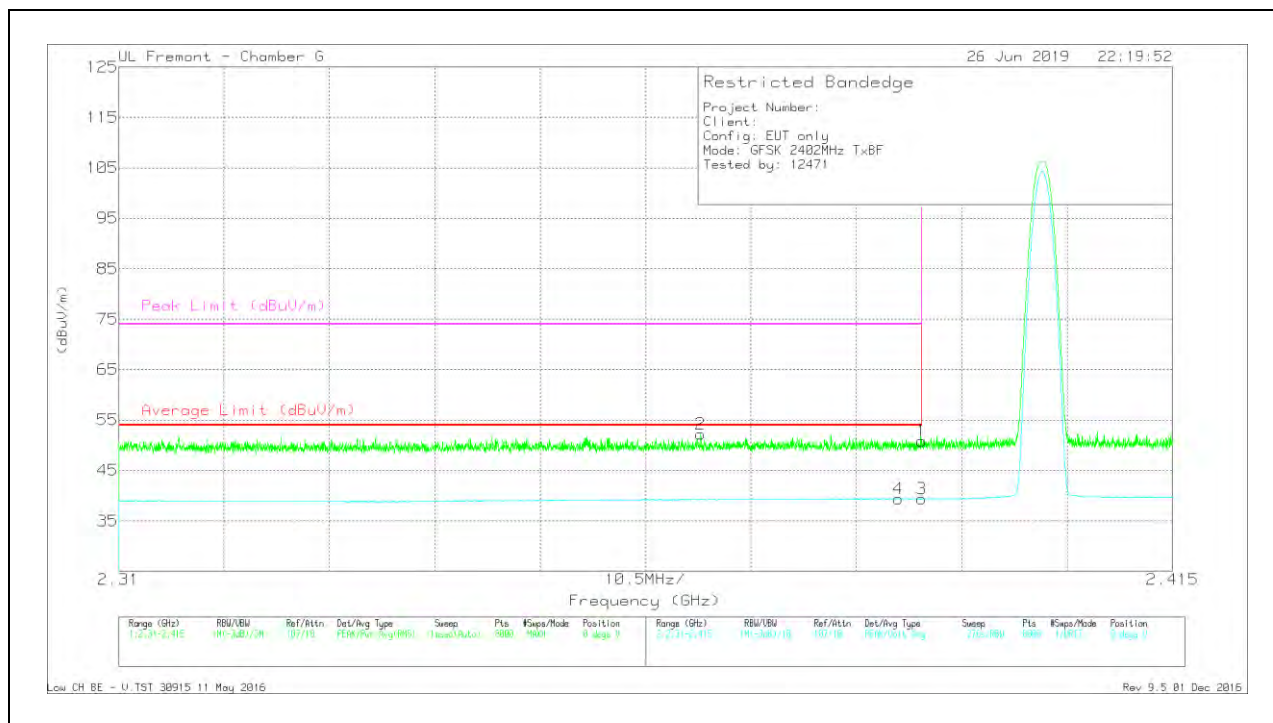
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.9	Pk	31.9	-22.2	49.6	-	-	74	-24.4	321	100	H
2	* 2.37	41.85	Pk	31.8	-22.2	51.45	-	-	74	-22.55	321	100	H
3	* 2.39	28.85	VA1T	31.9	-22.2	38.55	54	-15.45	-	-	321	100	H
4	* 2.389	28.89	VA1T	31.9	-22.2	38.59	54	-15.41	-	-	321	100	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	41.2	Pk	31.9	-22.2	50.9	-	-	74	-23.1	0	384	V
2	* 2.368	42.57	Pk	31.8	-22.2	52.17	-	-	74	-21.83	0	384	V
3	* 2.39	29.64	VA1T	31.9	-22.2	39.34	54	-14.66	-	-	0	384	V
4	* 2.388	29.69	VA1T	31.9	-22.2	39.39	54	-14.61	-	-	0	384	V

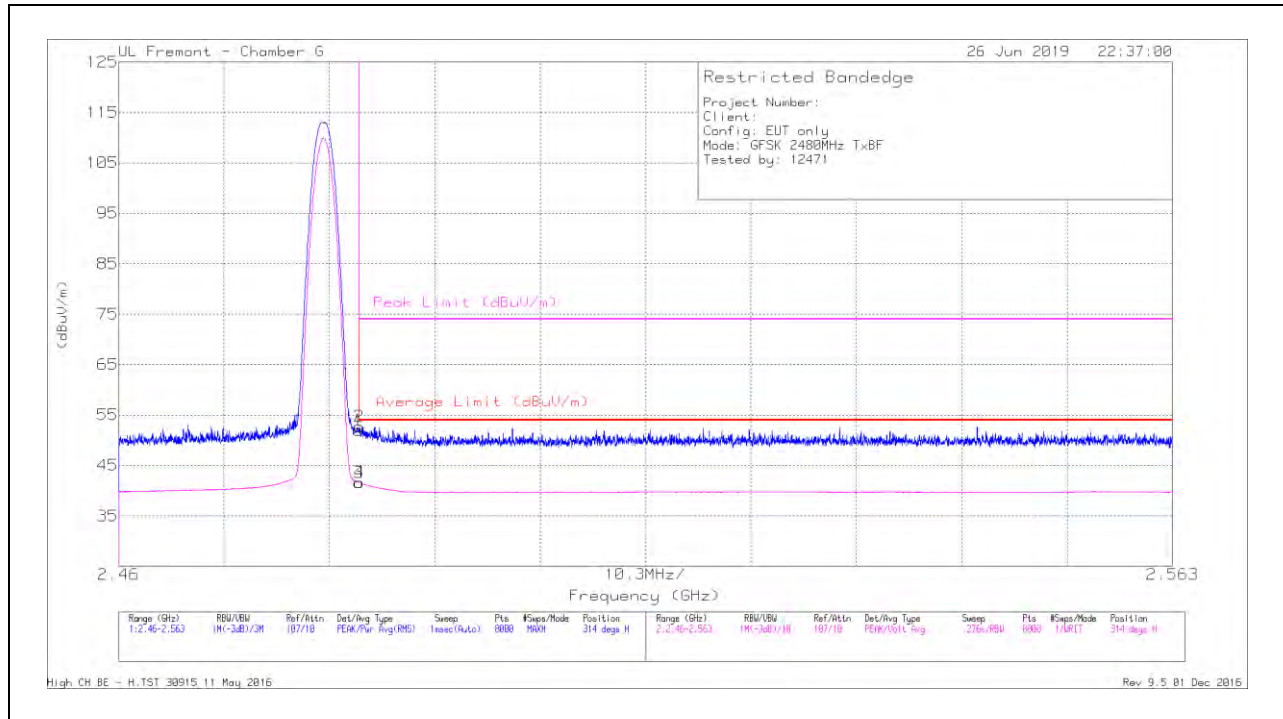
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



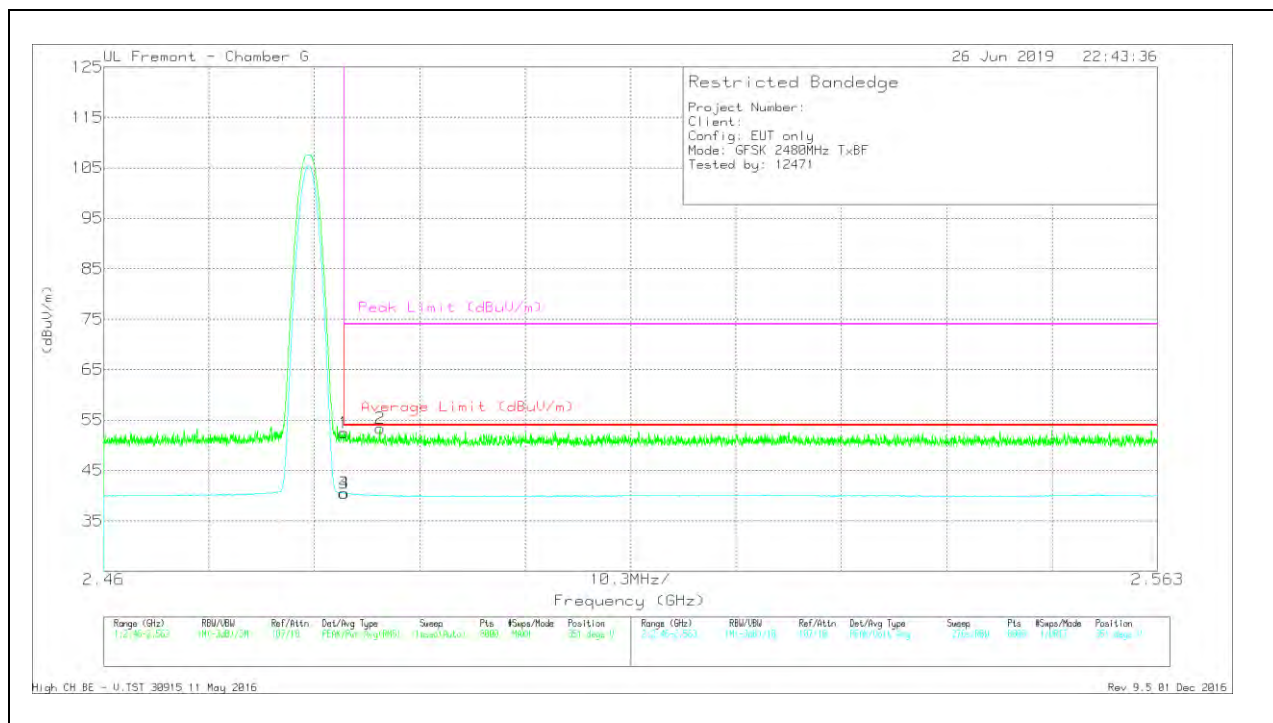
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.7	Pk	32.4	-22.1	52	-	-	74	-22	314	310	H
2	* 2.484	42.41	Pk	32.4	-22.1	52.71	-	-	74	-21.29	314	310	H
3	* 2.484	31.31	VA1T	32.4	-22.1	41.61	54	-12.39	-	-	314	310	H
4	* 2.484	31.29	VA1T	32.4	-22.1	41.59	54	-12.41	-	-	314	310	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	42.11	Pk	32.4	-22.1	52.41	-	-	74	-21.59	351	401	V
2	* 2.487	43.13	Pk	32.4	-22.2	53.33	-	-	74	-20.67	351	401	V
3	* 2.484	30.19	VA1T	32.4	-22.1	40.49	54	-13.51	-	-	351	401	V
4	* 2.484	30.19	VA1T	32.4	-22.1	40.49	54	-13.51	-	-	351	401	V

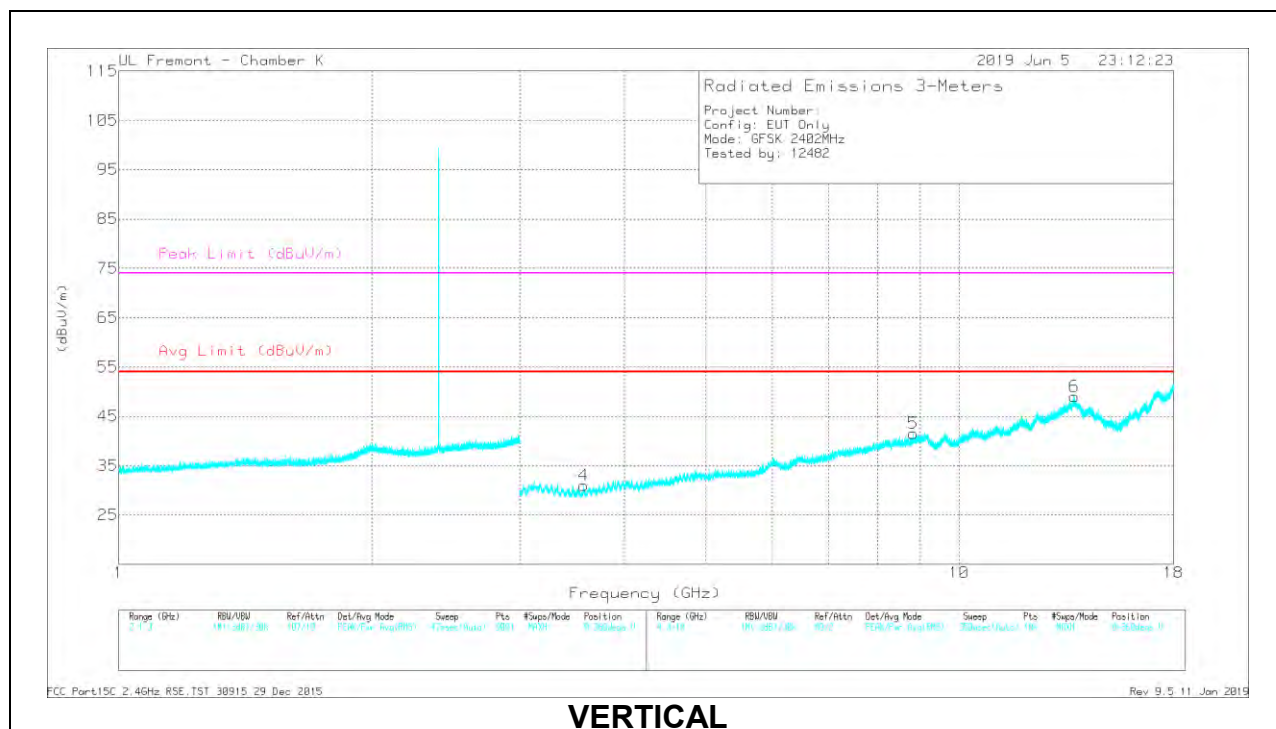
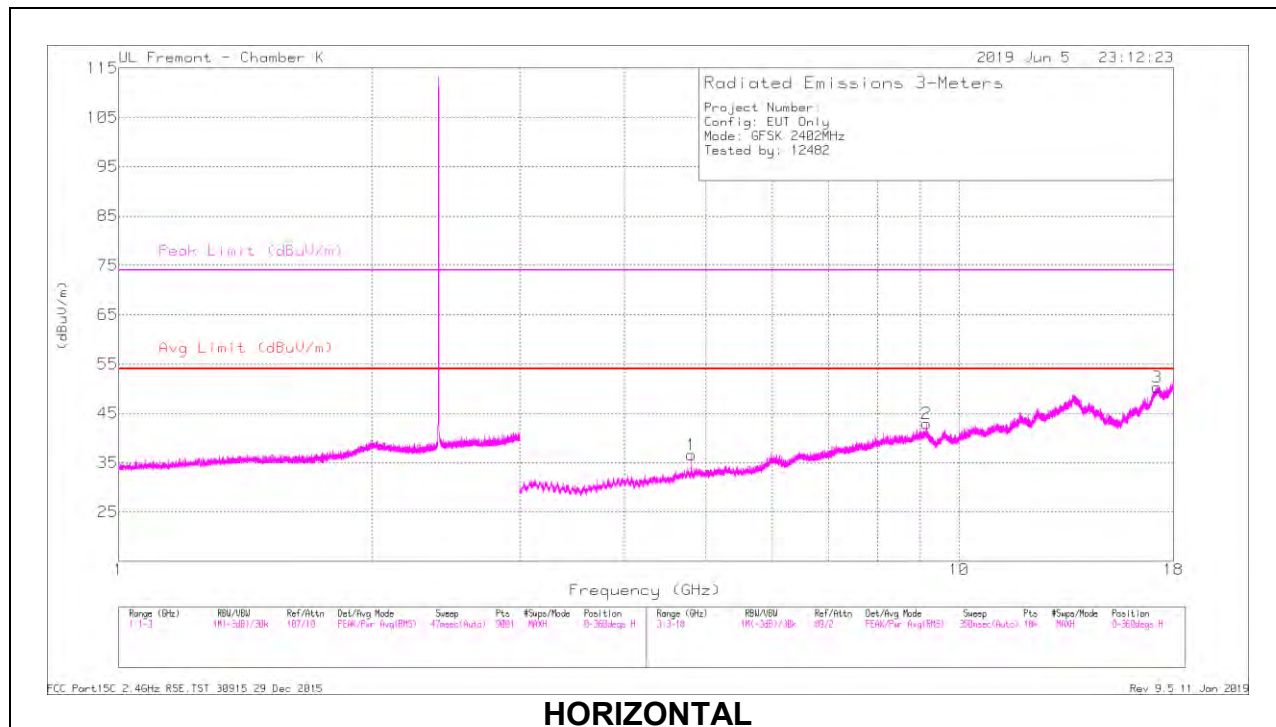
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

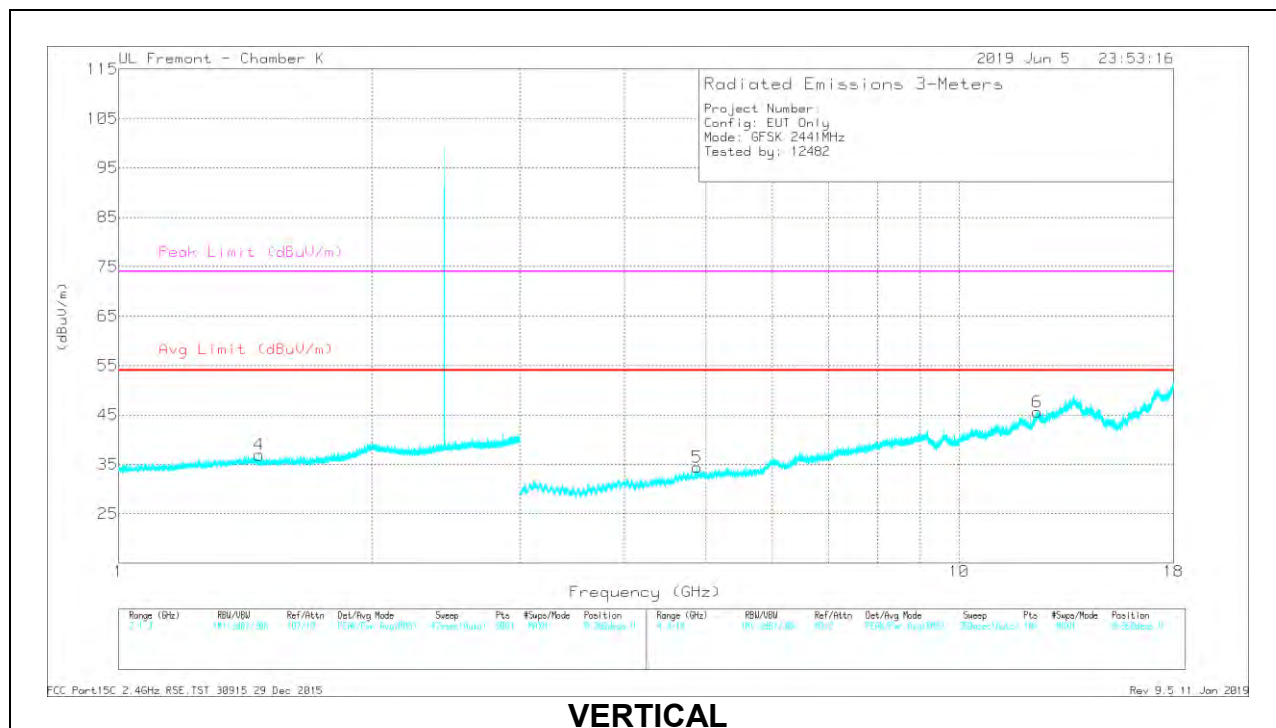
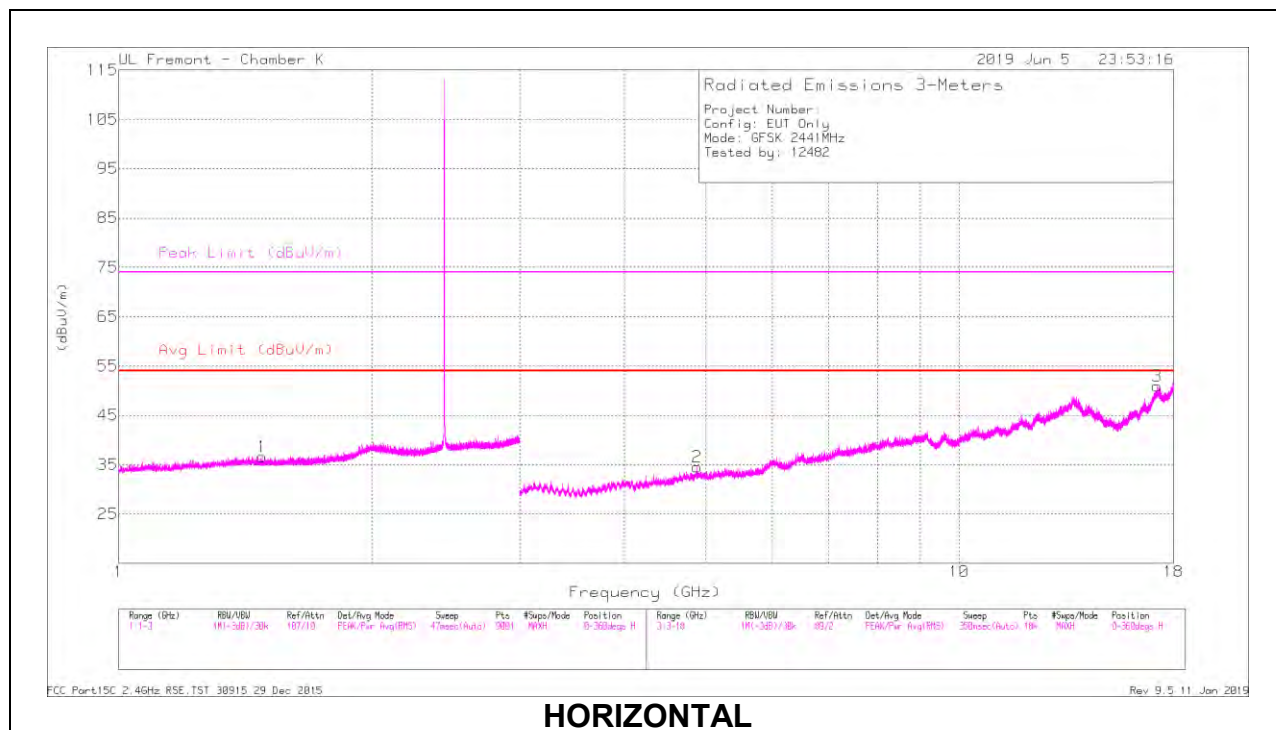
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0190811 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.803	40.7	PKFH	33	-30.3	43.4	-	-	74	-30.6	187	161	H
	* 4.804	29.09	VA1T	33	-30.3	31.79	54	-22.21	-	-	187	161	H
2	* 9.14	33.91	PKFH	38.7	-23.3	49.31	-	-	74	-24.69	23	367	H
	* 9.143	20.86	VA1T	38.7	-23.3	36.26	54	-17.74	-	-	23	367	H
3	17.222	31.14	PKFH	43.4	-16.5	58.04	-	-	-	-	250	187	H
4	* 3.58	40.68	PKFH	29.9	-32.3	38.28	-	-	74	-35.72	156	323	V
	* 3.579	27.48	VA1T	29.9	-32.2	25.18	54	-28.82	-	-	156	132	V
5	8.82	34.8	PKFH	38.6	-24	49.4	-	-	-	-	53	111	V
6	13.713	31.81	PKFH	43	-18.7	56.11	-	-	-	-	230	243	V

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

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

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

MID CHANNEL RESULTS



RADIATED EMISSIONS

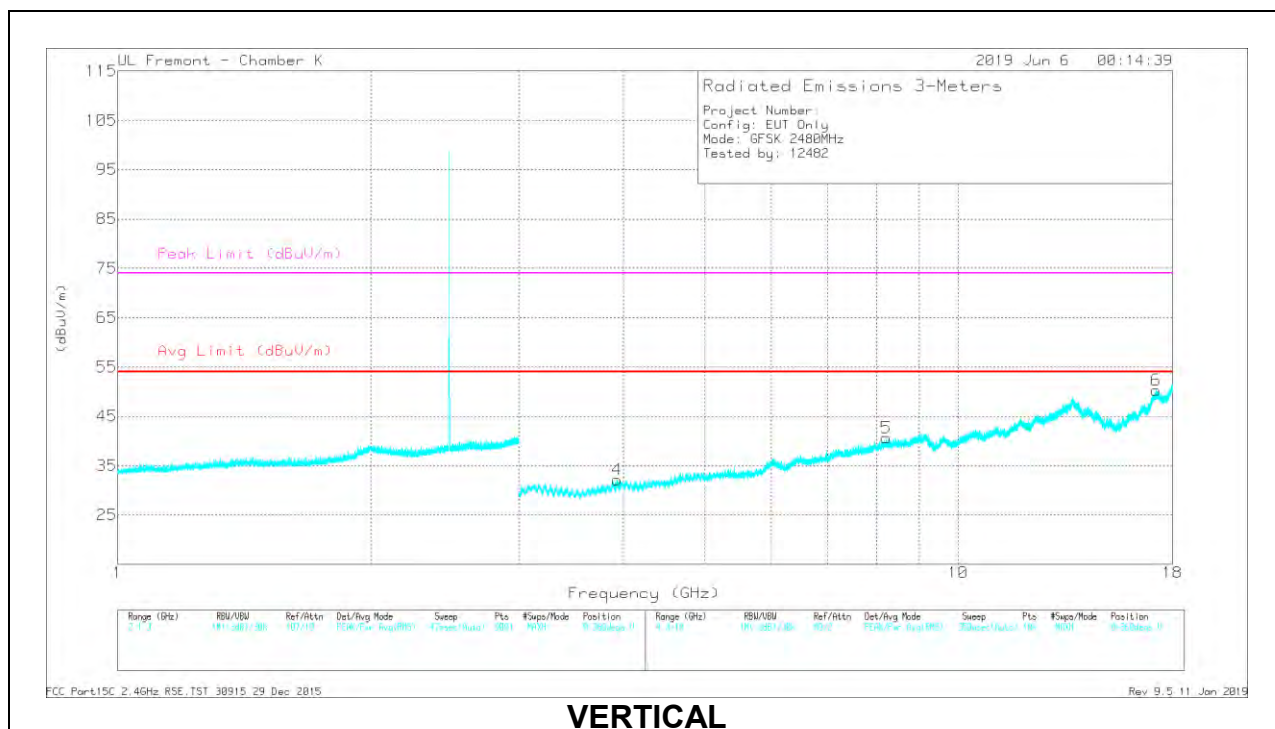
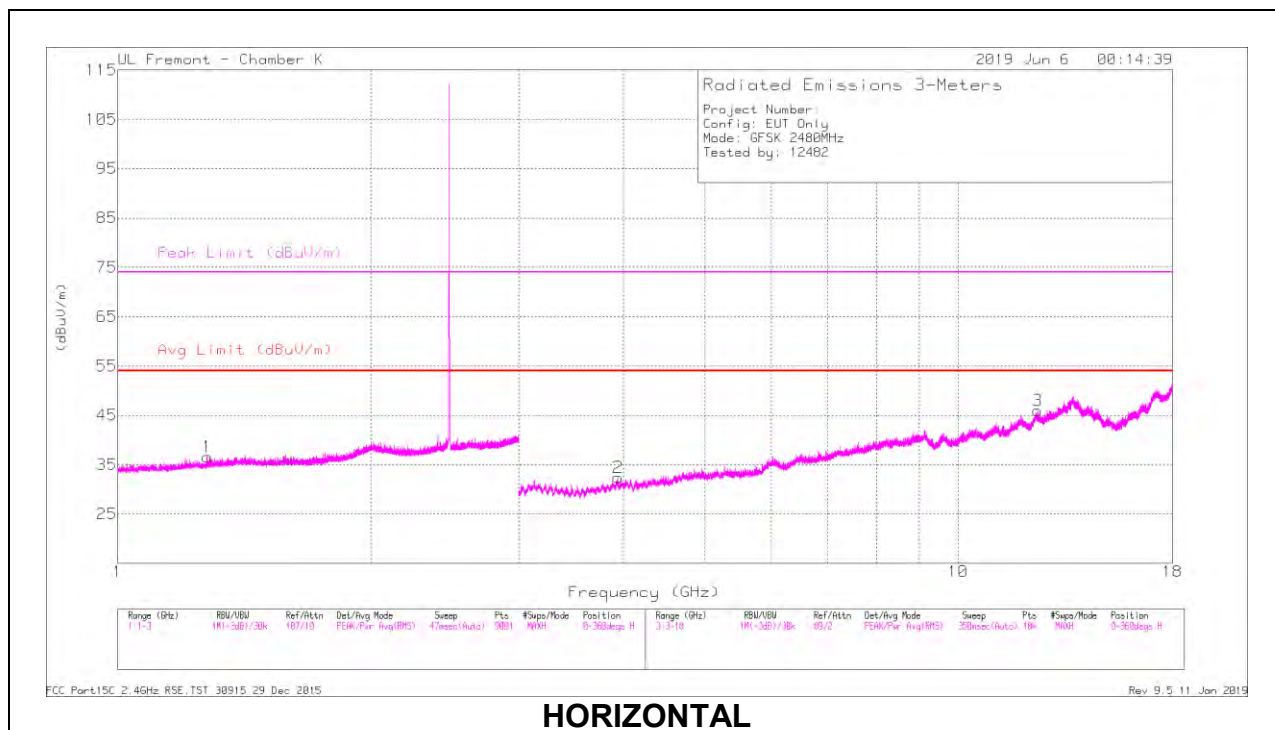
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.482	43.61	PKFH	24.6	-23.9	44.31	-	-	74	-29.69	32	166	H
	* 1.483	30.1	VA1T	24.6	-23.9	30.8	54	-23.2	-	-	32	166	H
4	* 1.471	43.83	PKFH	24.6	-23.9	44.53	-	-	74	-29.47	222	125	V
	* 1.469	30.13	VA1T	24.6	-23.9	30.83	54	-23.17	-	-	222	125	V
2	* 4.881	39.08	PKFH	33.2	-30.5	41.78	-	-	74	-32.22	156	206	H
	* 4.882	26.53	VA1T	33.2	-30.5	29.23	54	-24.77	-	-	156	206	H
3	17.215	30.53	PKFH	43.4	-16.6	57.33	-	-	-	-	98	157	H
5	* 4.88	38.36	PKFH	33.2	-30.5	41.06	-	-	74	-32.94	352	255	V
	* 4.881	25.37	VA1T	33.2	-30.5	28.07	54	-25.93	-	-	352	255	V
6	* 12.405	32.72	PKFH	40.9	-20.1	53.52	-	-	74	-20.48	22	307	V
	* 12.407	19.06	VA1T	40.9	-20.1	39.86	54	-14.14	-	-	22	307	V

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

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, 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 PRE0190811 (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	* 1.275	43.79	PKFH	24.4	-24	44.19	-	-	74	-29.81	125	185	H
	* 1.279	29.91	VA1T	24.4	-23.9	30.41	54	-23.59	-	-	125	185	H
2	* 3.94	39.87	PKFH	31.5	-31.7	39.67	-	-	74	-34.33	349	178	H
	* 3.939	26.66	VA1T	31.5	-31.7	26.46	54	-27.54	-	-	349	178	H
3	* 12.442	32.04	PKFH	40.9	-20.1	52.84	-	-	74	-21.16	140	320	H
	* 12.443	19.06	VA1T	40.9	-20.1	39.86	54	-14.14	-	-	140	320	H
4	* 3.929	40.55	PKFH	31.4	-31.7	40.25	-	-	74	-33.75	270	239	V
	* 3.93	27.01	VA1T	31.4	-31.7	26.71	54	-27.29	-	-	270	239	V
5	* 8.219	35.36	PKFH	38	-24.9	48.46	-	-	74	-25.54	97	200	V
	* 8.219	22.21	VA1T	38	-24.9	35.31	54	-18.69	-	-	97	200	V
6	17.217	31.71	PKFH	43.4	-16.6	58.51	-	-	-	-	233	184	V

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

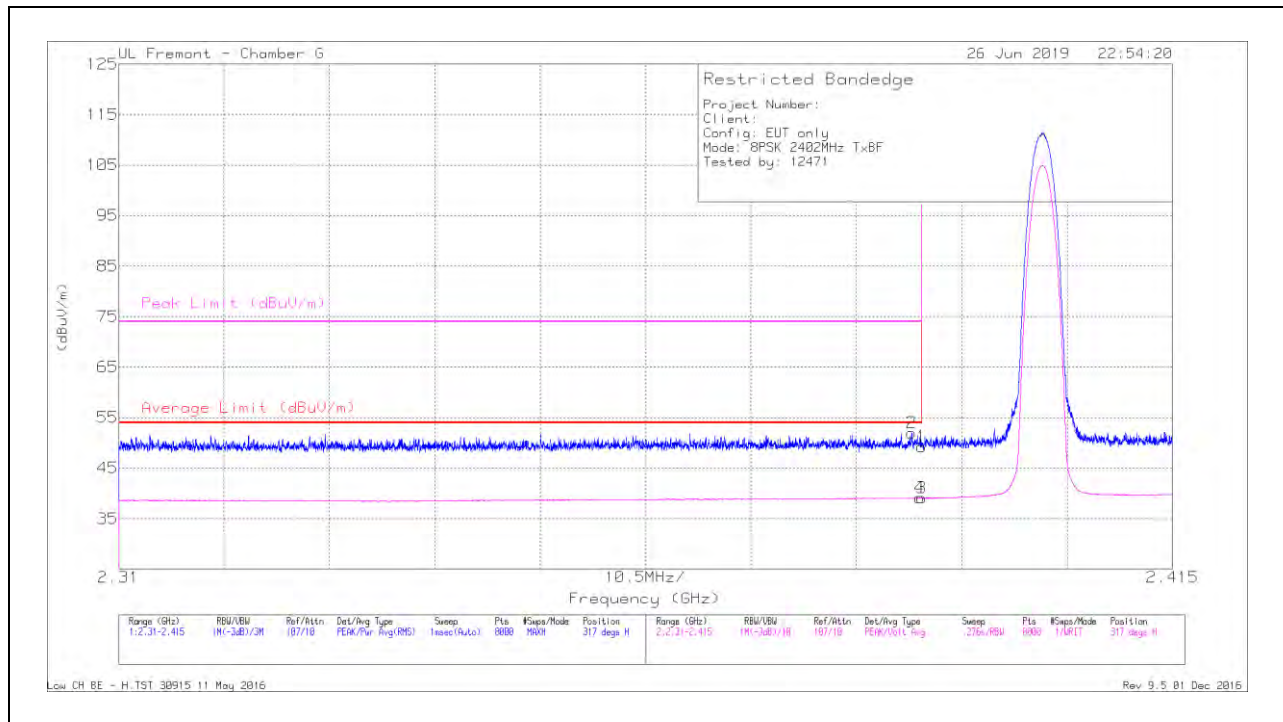
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

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

9.2.2. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



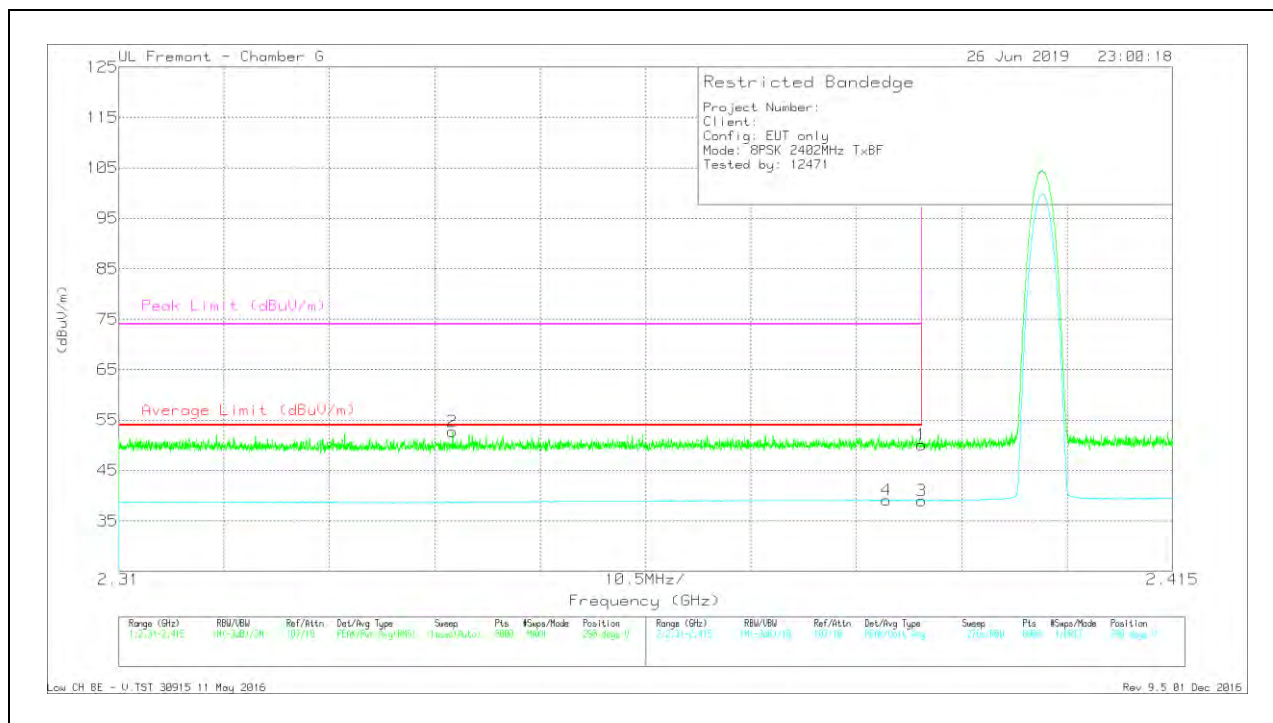
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T120 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.54	Pk	31.9	-22.2	49.24	-	-	74	-24.76	317	163	H
2	* 2.389	42.21	Pk	31.9	-22.2	51.91	-	-	74	-22.09	317	163	H
3	* 2.39	29.39	VA1T	31.9	-22.2	39.09	54	-14.91	-	-	317	163	H
4	* 2.39	29.39	VA1T	31.9	-22.2	39.09	54	-14.91	-	-	317	163	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	40.35	Pk	31.9	-22.2	50.05	-	-	74	-23.95	298	391	V
2	* 2.343	43.35	Pk	31.6	-22.2	52.75	-	-	74	-21.25	298	391	V
3	* 2.39	29.36	VA1T	31.9	-22.2	39.06	54	-14.94	-	-	298	391	V
4	* 2.387	29.42	VA1T	31.9	-22.2	39.12	54	-14.88	-	-	298	391	V

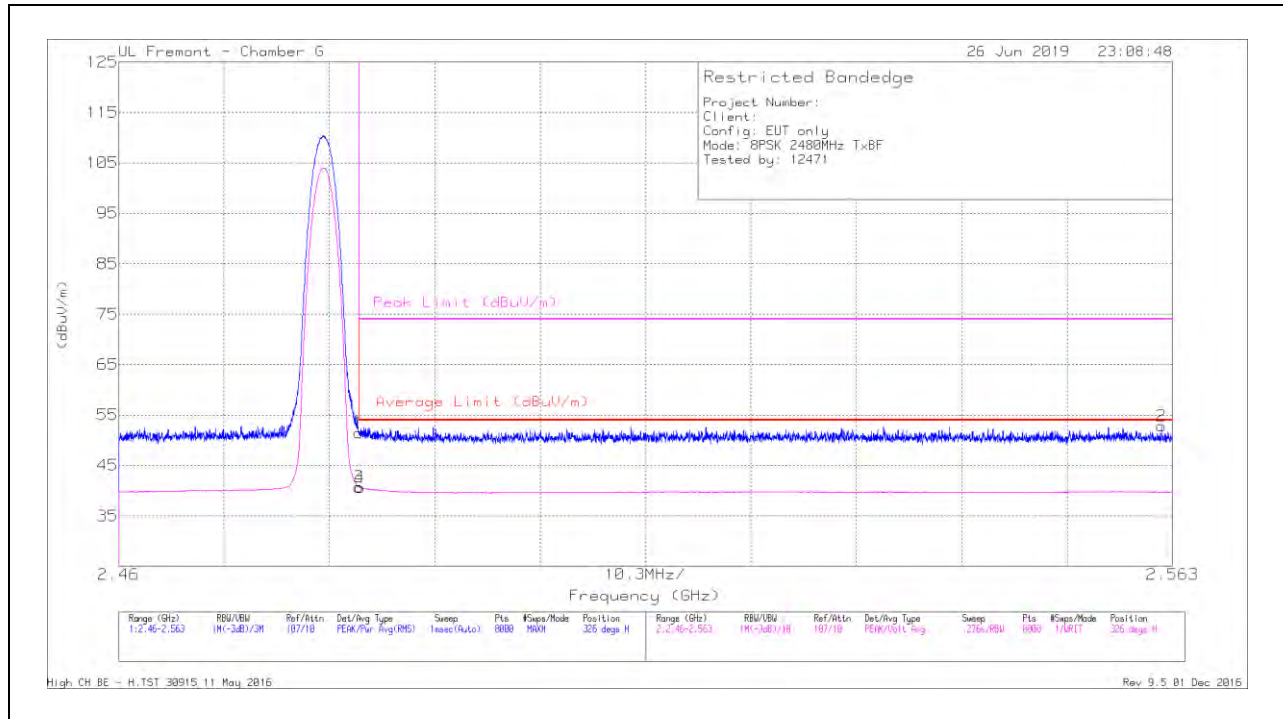
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



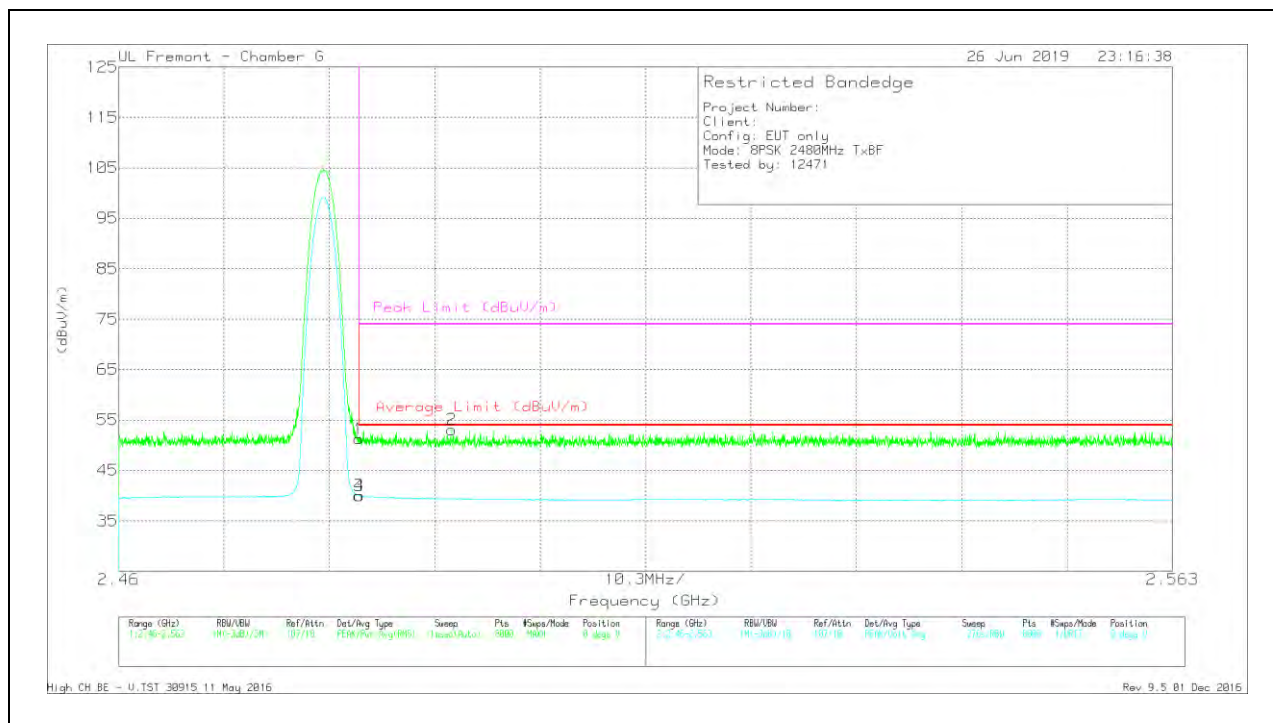
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.11	Pk	32.4	-22.1	51.41	-	-	74	-22.59	326	311	H
3	* 2.484	30.43	VA1T	32.4	-22.1	40.73	54	-13.27	-	-	326	310	H
4	* 2.484	30.36	VA1T	32.4	-22.1	40.66	54	-13.34	-	-	326	310	H
2	2.562	42.68	Pk	32.4	-22.2	52.88	-	-	74	-21.12	326	311	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	40.98	Pk	32.4	-22.1	51.28	-	-	74	-22.72	0	403	V
2	* 2.493	42.84	Pk	32.4	-22.2	53.04	-	-	74	-20.96	0	403	V
3	* 2.484	29.66	VA1T	32.4	-22.1	39.96	54	-14.04	-	-	0	403	V
4	* 2.484	29.66	VA1T	32.4	-22.1	39.96	54	-14.04	-	-	0	403	V

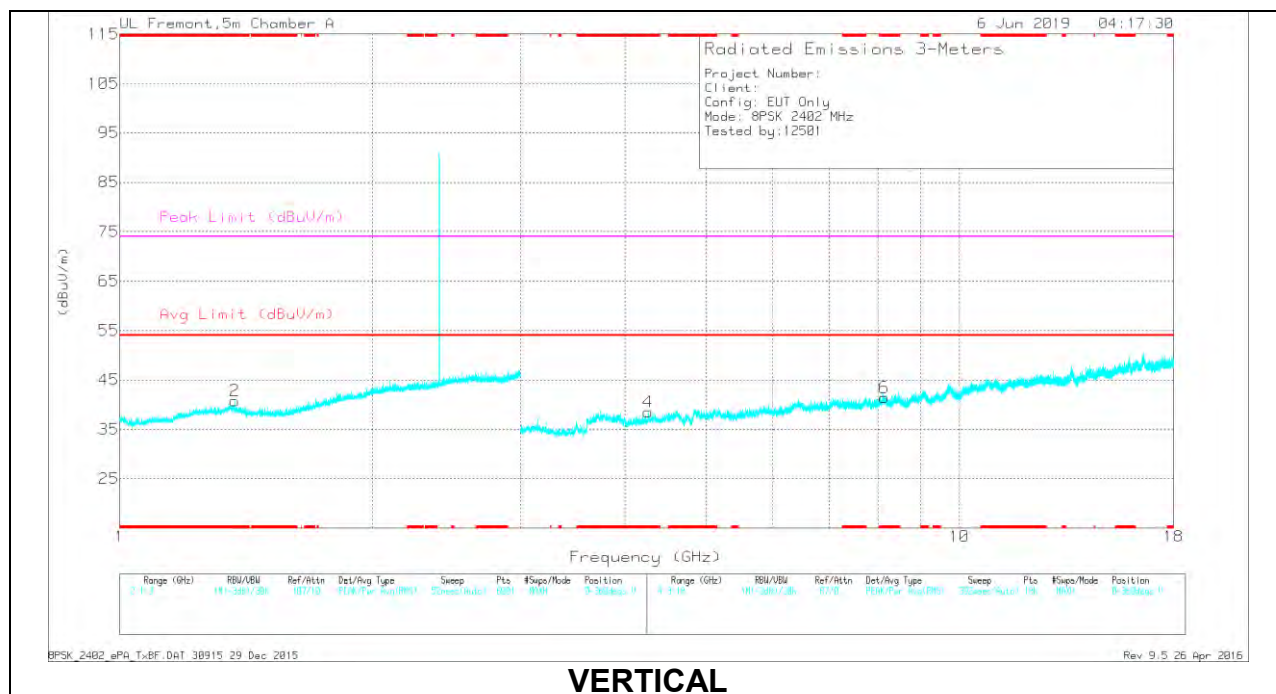
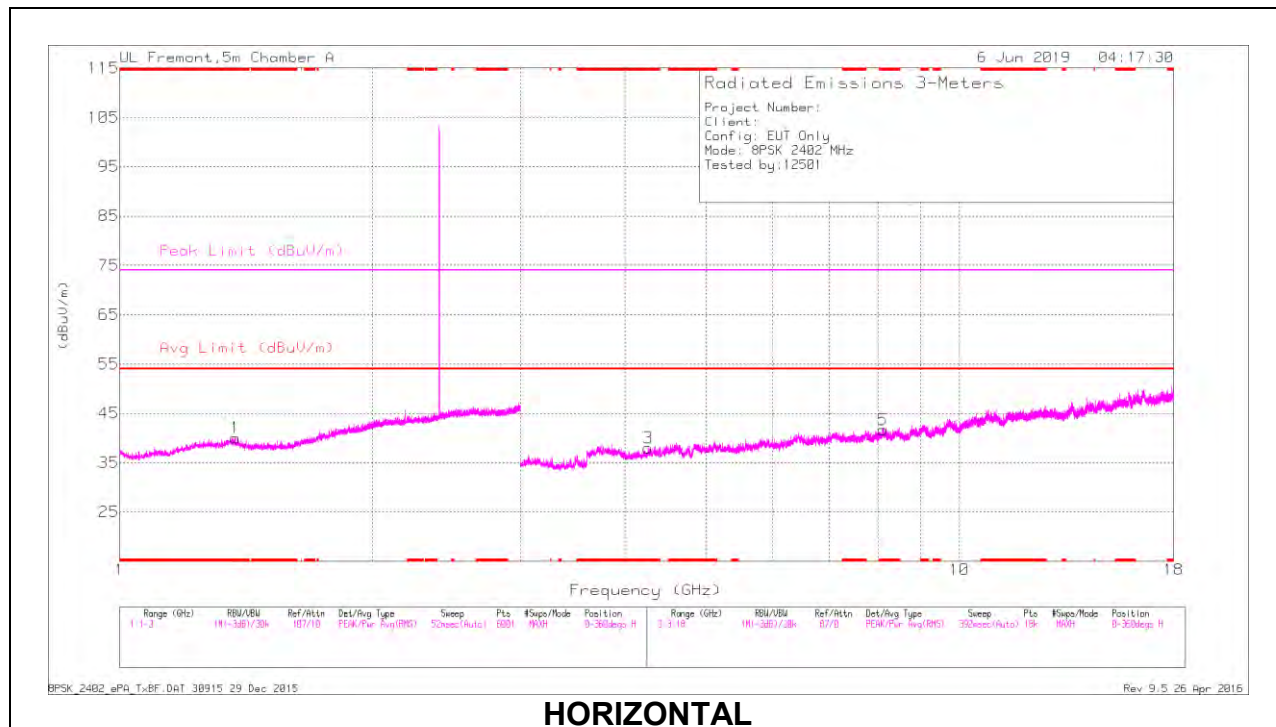
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

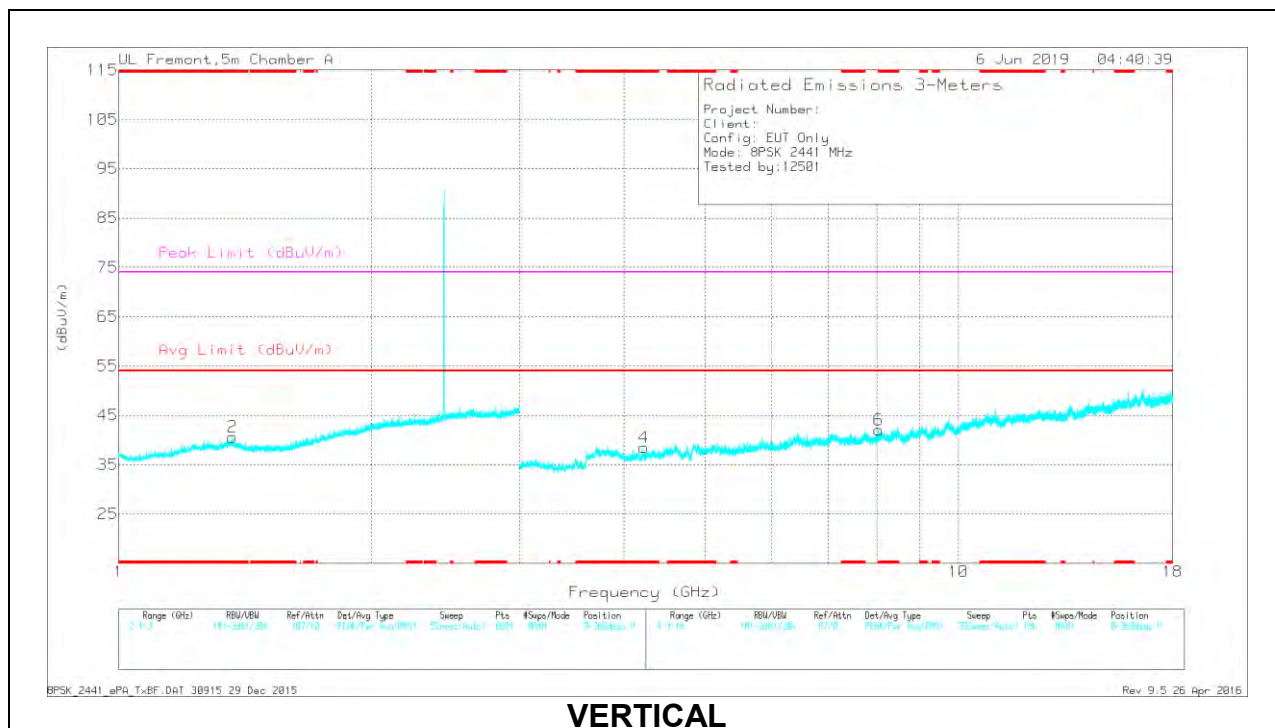
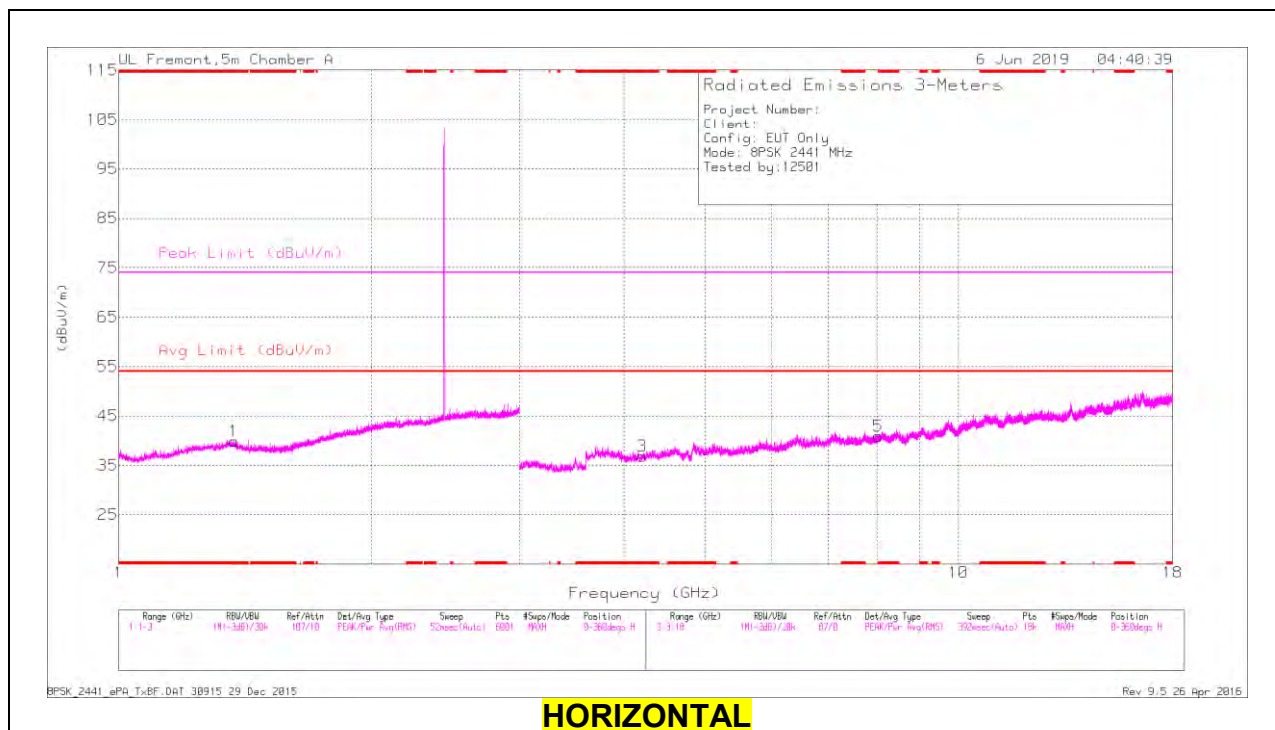
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.373	41.09	PKFH	29.4	-25	45.49	-	-	74	-28.51	75	140	H
	* 1.375	29.64	VA1T	29.3	-25	33.94	54	-20.06	-	-	75	140	H
2	* 1.371	40.42	PKFH	29.5	-25	44.92	-	-	74	-29.08	65	155	H
	* 1.373	29.63	VA1T	29.4	-25	34.03	54	-19.97	-	-	65	155	H
3	* 4.265	37.52	PKFH	33.5	-28.2	42.82	-	-	74	-31.18	80	156	H
	* 4.263	26.8	VA1T	33.5	-28.2	32.1	54	-21.9	-	-	80	156	H
5	* 8.113	35.06	PKFH	35.8	-22.2	48.66	-	-	74	-25.34	99	200	H
	* 8.111	22.65	VA1T	35.8	-22.2	36.25	54	-17.75	-	-	99	200	H
4	* 4.261	38.31	PKFH	33.5	-28.2	43.61	-	-	74	-30.39	86	175	V
	* 4.264	26.73	VA1T	33.5	-28.2	32.03	54	-21.97	-	-	86	175	V
6	* 8.141	33.96	PKFH	35.8	-22.5	47.26	-	-	74	-26.74	75	140	V
	* 8.138	22.57	VA1T	35.7	-22.5	35.77	54	-18.23	-	-	75	140	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

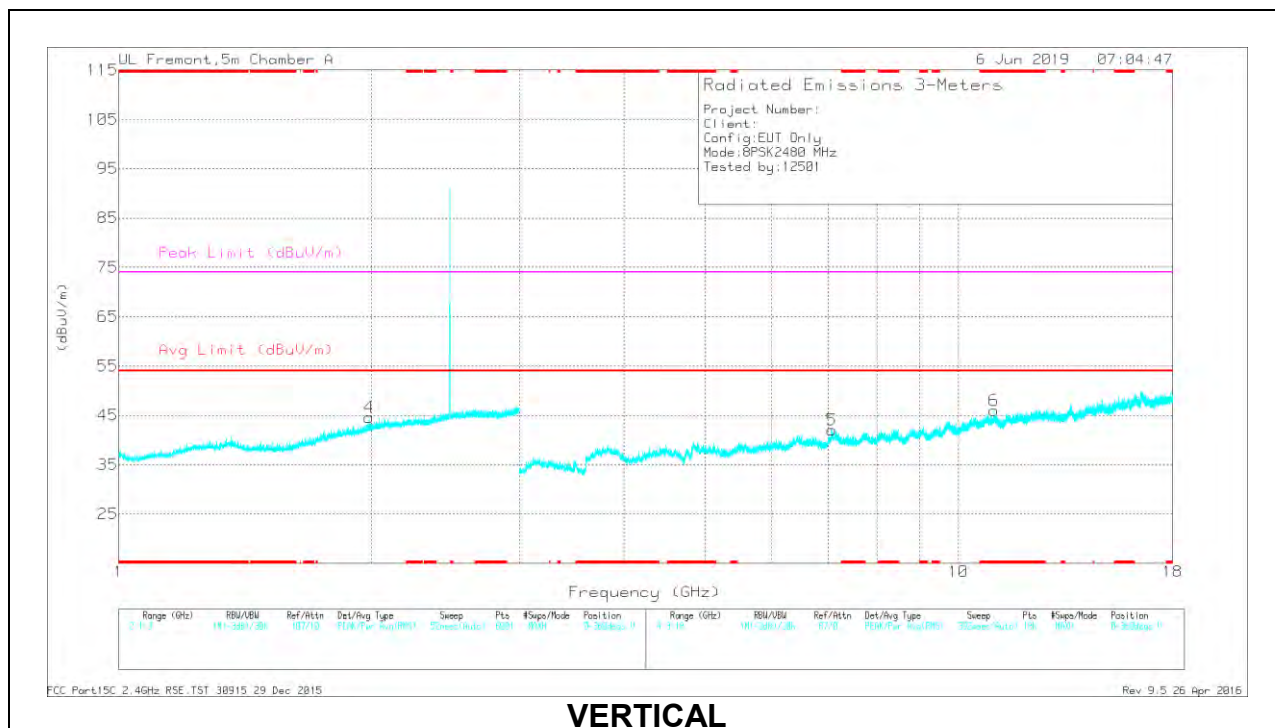
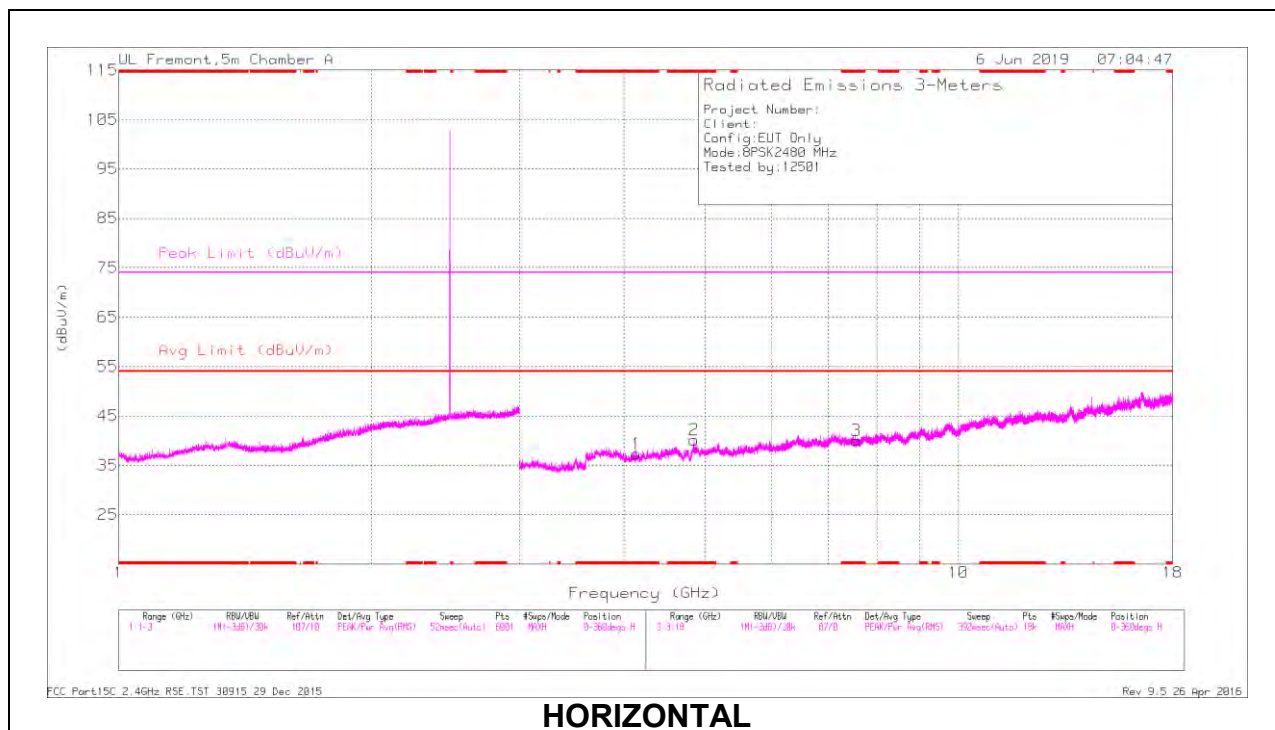
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.372	40.81	PKFH	29.5	-25	45.31	-	-	74	-28.69	29	150	H
* 1.372	29.65	VA1T	29.5	-25	34.15	54	-19.85	-	-	29	150	H
* 1.366	41.09	PKFH	29.6	-25	45.69	-	-	74	-28.31	49	155	V
* 1.368	29.61	VA1T	29.6	-25	34.21	54	-19.79	-	-	49	155	V
* 4.204	38.96	PKFH	33.4	-28.6	43.76	-	-	74	-30.24	87	165	H
* 4.206	26.93	VA1T	33.4	-28.6	31.73	54	-22.27	-	-	87	165	H
* 8.027	35.28	PKFH	35.9	-23.5	47.68	-	-	74	-26.32	38	170	H
* 8.027	23.51	VA1T	35.9	-23.5	35.91	54	-18.09	-	-	38	170	H
* 4.225	38.15	PKFH	33.4	-28	43.55	-	-	74	-30.45	53	115	V
* 4.225	26.42	VA1T	33.4	-28.1	31.72	54	-22.28	-	-	53	115	V
* 8.037	35	PKFH	35.8	-23.3	47.5	-	-	74	-26.5	76	135	V
* 8.038	23.39	VA1T	35.8	-23.2	35.99	54	-18.01	-	-	76	135	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 T346 (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	* 4.141	38.39	PKFH	33.4	-28.9	42.89	-	-	74	-31.11	63	105	H
	* 4.141	27.02	VA1T	33.4	-28.9	31.52	54	-22.48	-	-	63	105	H
2	* 4.844	38.83	PKFH	34.3	-27	46.13	-	-	74	-27.87	87	193	H
	* 4.846	27.01	VA1T	34.3	-27	34.31	54	-19.69	-	-	87	193	H
3	* 7.559	34.57	PKFH	35.7	-23.7	46.57	-	-	74	-27.43	191	131	H
	* 7.562	22.78	VA1T	35.7	-23.8	34.68	54	-19.32	-	-	191	131	H
6	* 11.037	34.71	PKFH	37.9	-20.3	52.31	-	-	74	-21.69	176	284	V
	* 11.037	21.91	VA1T	37.9	-20.3	39.51	54	-14.49	-	-	176	284	V
4	1.987	41.76	PKFH	31.5	-23.7	49.56	-	-	-	-	32	162	V
5	7.077	36.52	PKFH	36	-23.6	48.92	-	-	-	-	41	201	V

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

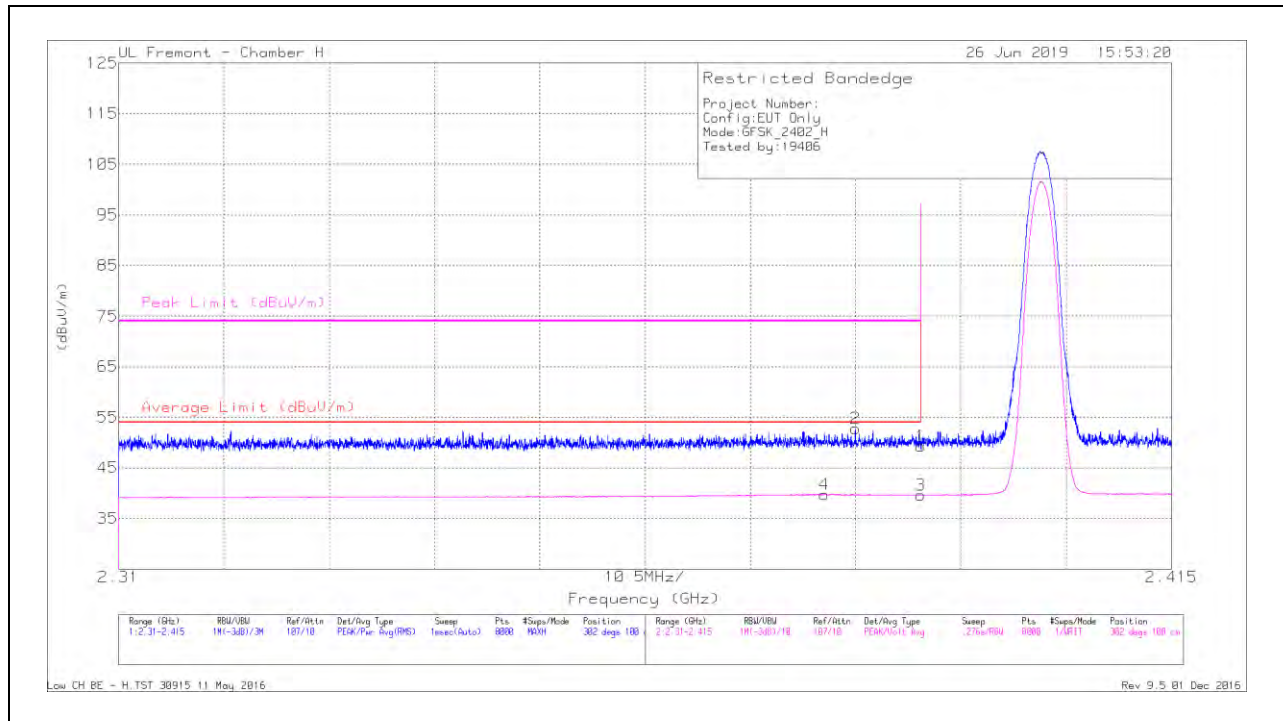
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

9.2.3. LOW POWER BASIC DATA RATE GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



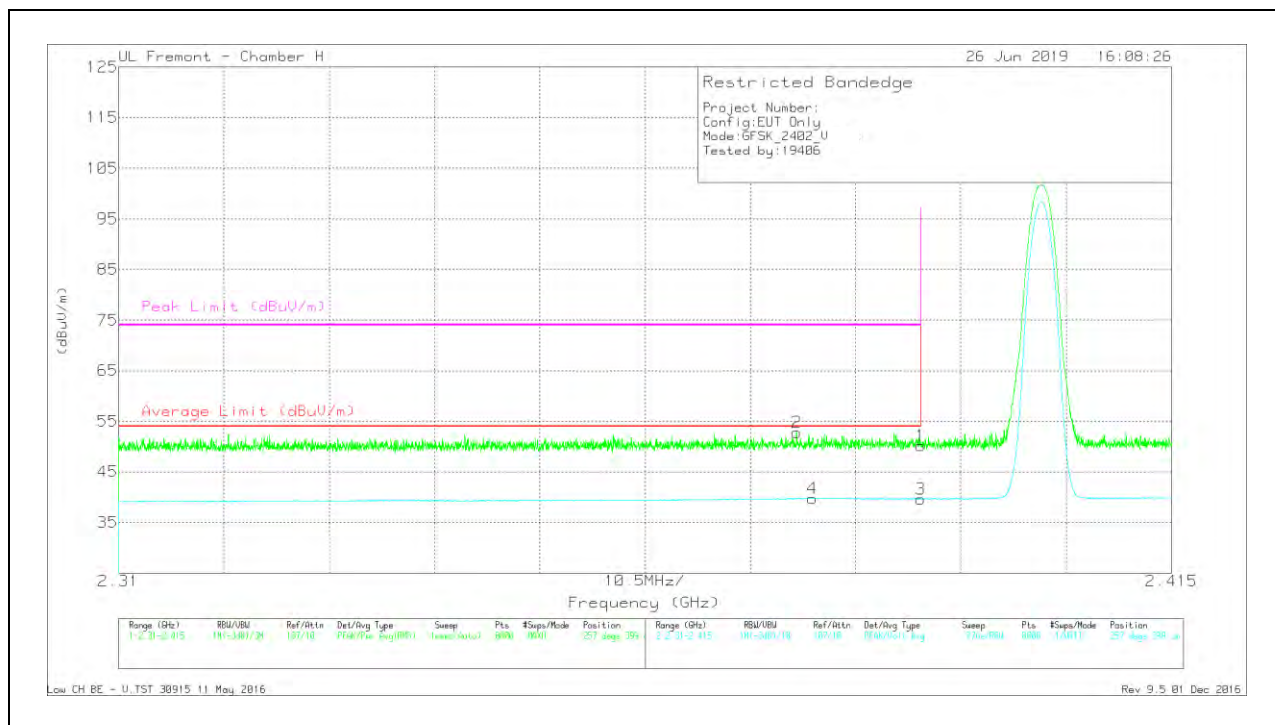
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Fltr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.75	Pk	32.1	-23.5	49.35	-	-	74	-24.65	302	100	H
2	* 2.383	44.21	Pk	32.1	-23.5	52.81	-	-	74	-21.19	302	100	H
3	* 2.39	31.03	VA1T	32.1	-23.5	39.63	54	-14.37	-	-	302	100	H
4	* 2.38	31.04	VA1T	32.2	-23.5	39.74	54	-14.26	-	-	302	100	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	41.57	Pk	32.1	-23.5	50.17	-	-	74	-23.83	257	399	V
2	* 2.378	44.02	Pk	32.2	-23.5	52.72	-	-	74	-21.28	257	399	V
3	* 2.39	31.04	VA1T	32.1	-23.5	39.64	54	-14.36	-	-	257	399	V
4	* 2.379	31.08	VA1T	32.2	-23.5	39.78	54	-14.22	-	-	257	399	V

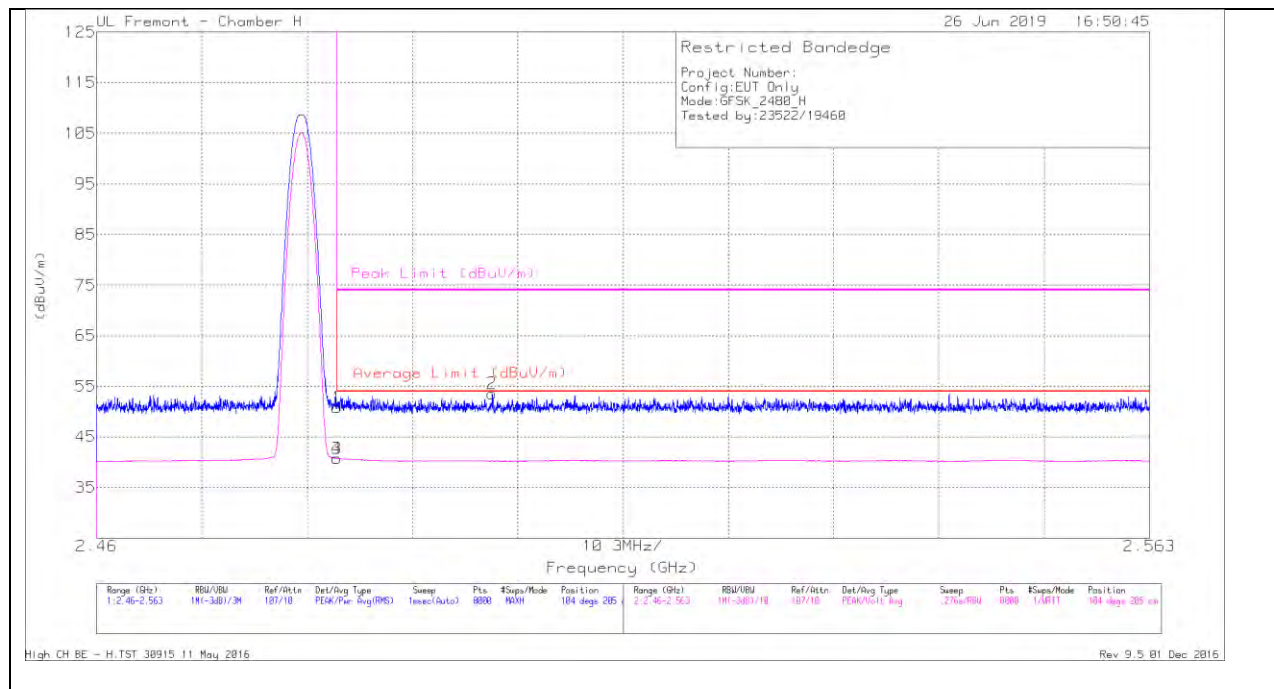
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



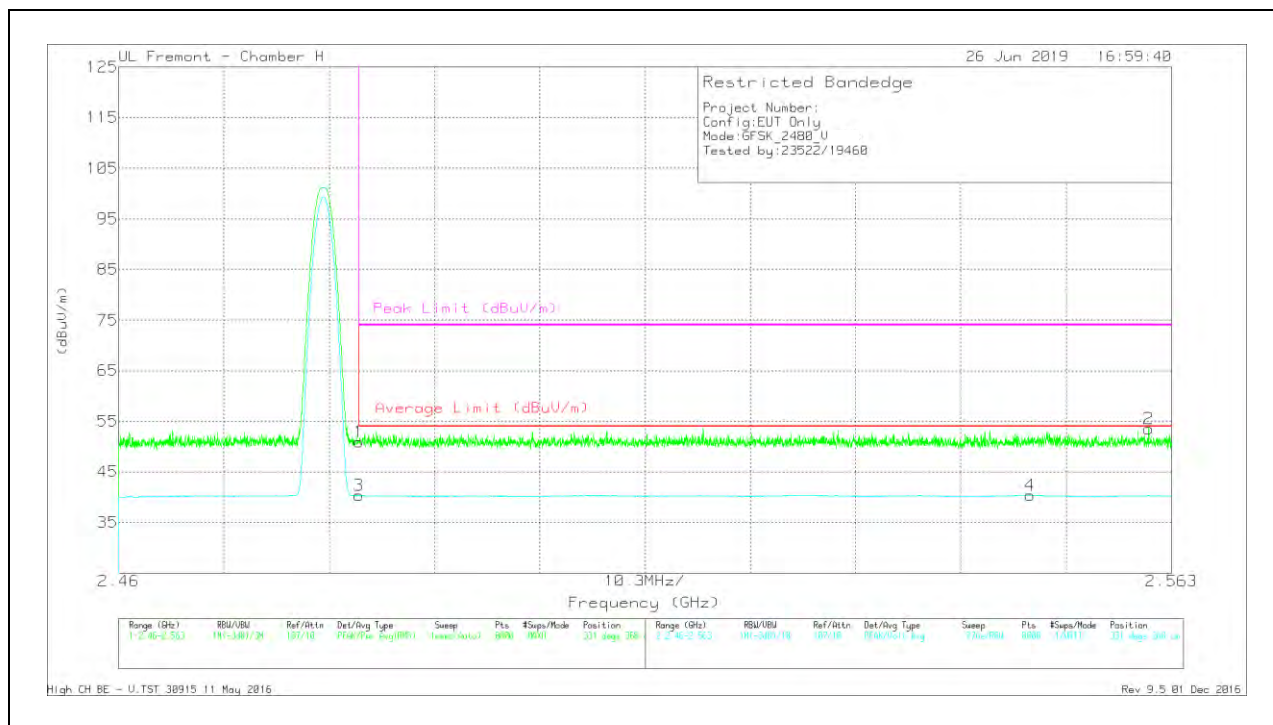
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.58	Pk	32.5	-23.3	50.78	-	-	74	-23.22	104	205	H
2	* 2.499	44.38	Pk	32.5	-23.3	53.58	-	-	74	-20.42	104	205	H
3	* 2.484	31.55	VA1T	32.5	-23.3	40.75	54	-13.25	-	-	104	205	H
4	* 2.484	31.55	VA1T	32.5	-23.3	40.75	54	-13.25	-	-	104	205	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	41.75	Pk	32.5	-23.3	50.95	-	-	74	-23.05	331	368	V
3	* 2.484	31.12	VA1T	32.5	-23.3	40.32	54	-13.68	-	-	331	368	V
4	2.549	30.99	VA1T	32.5	-23.1	40.39	54	-13.61	-	-	331	368	V
2	2.561	44.16	Pk	32.5	-23.1	53.56	-	-	74	-20.44	331	368	V

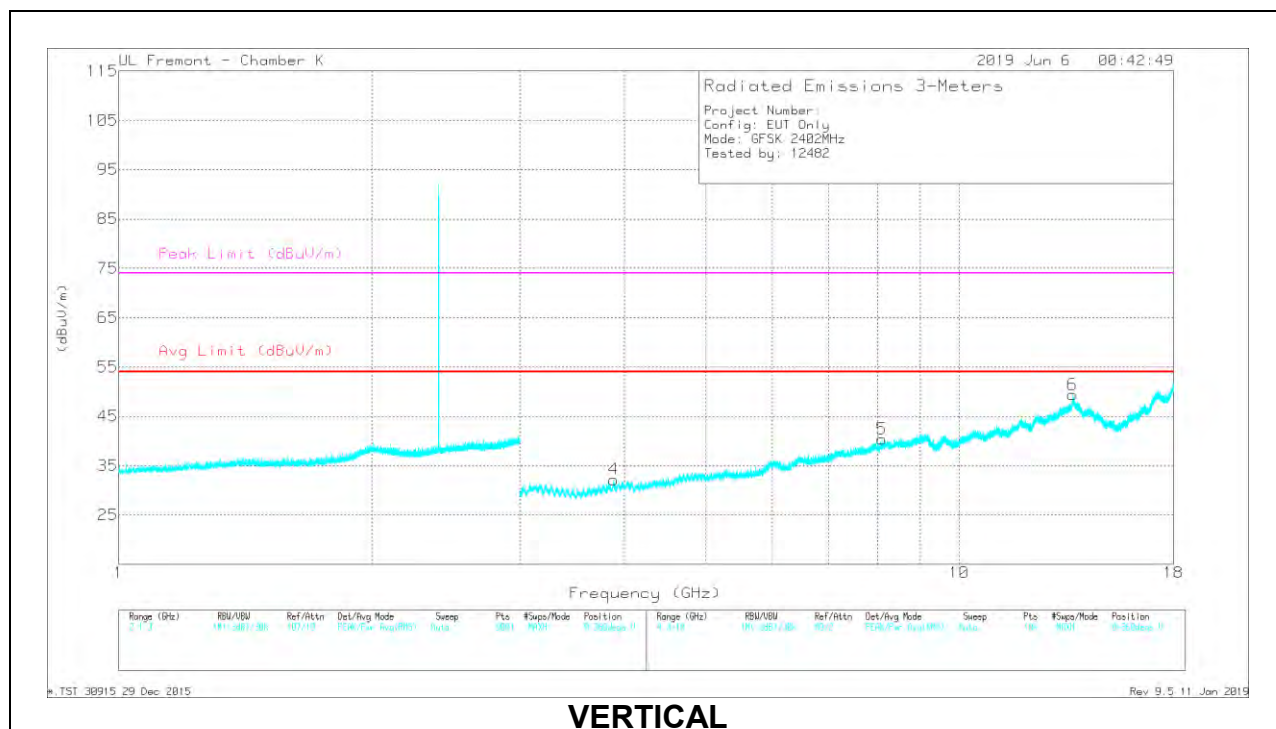
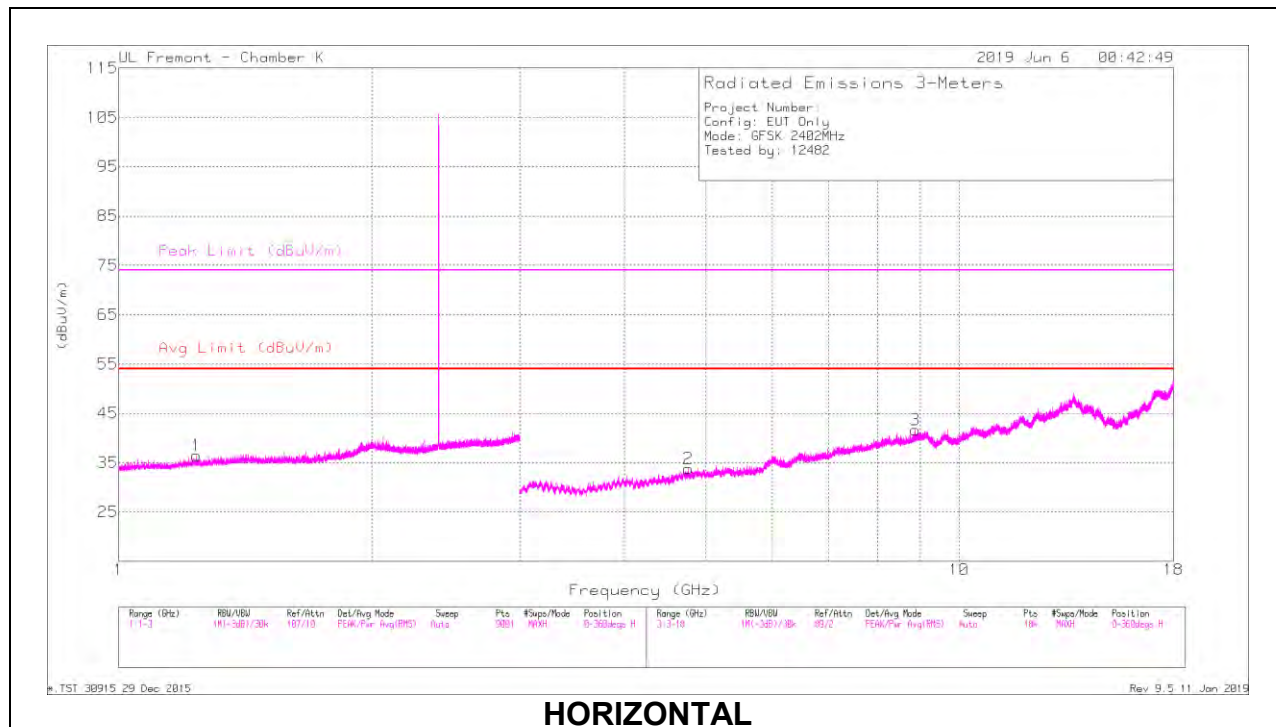
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

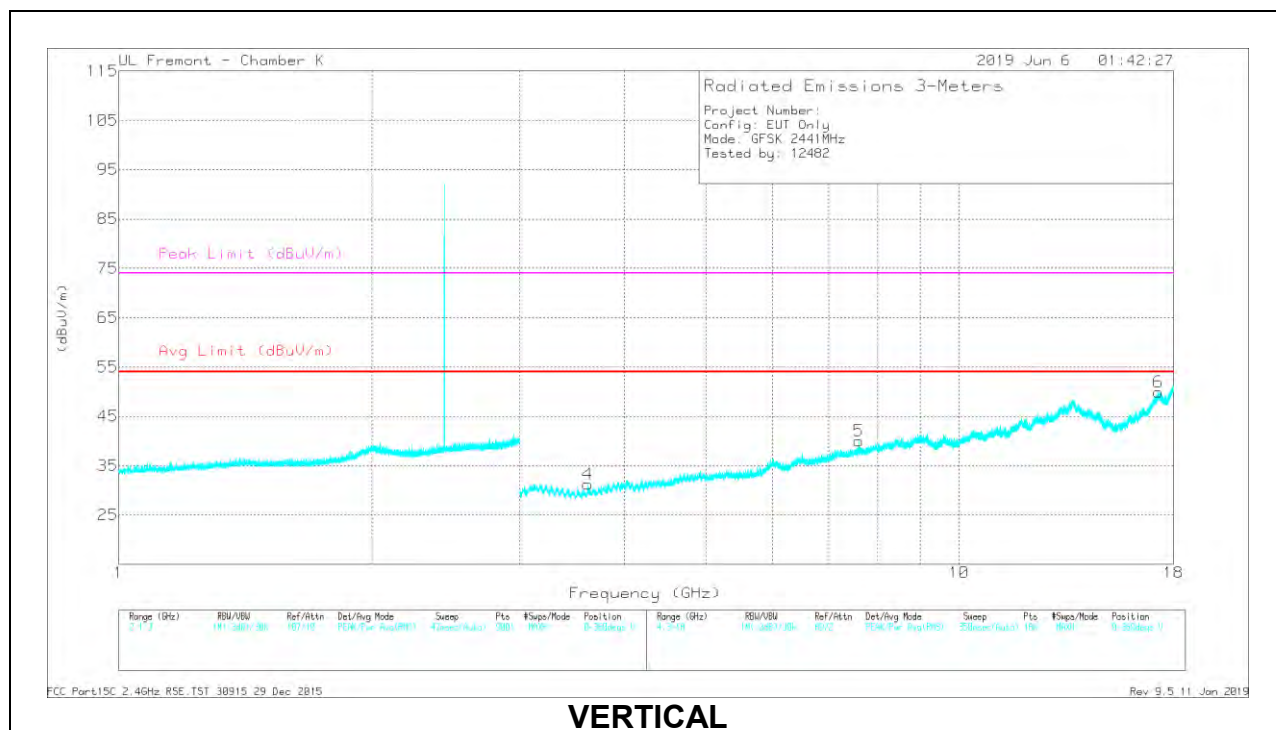
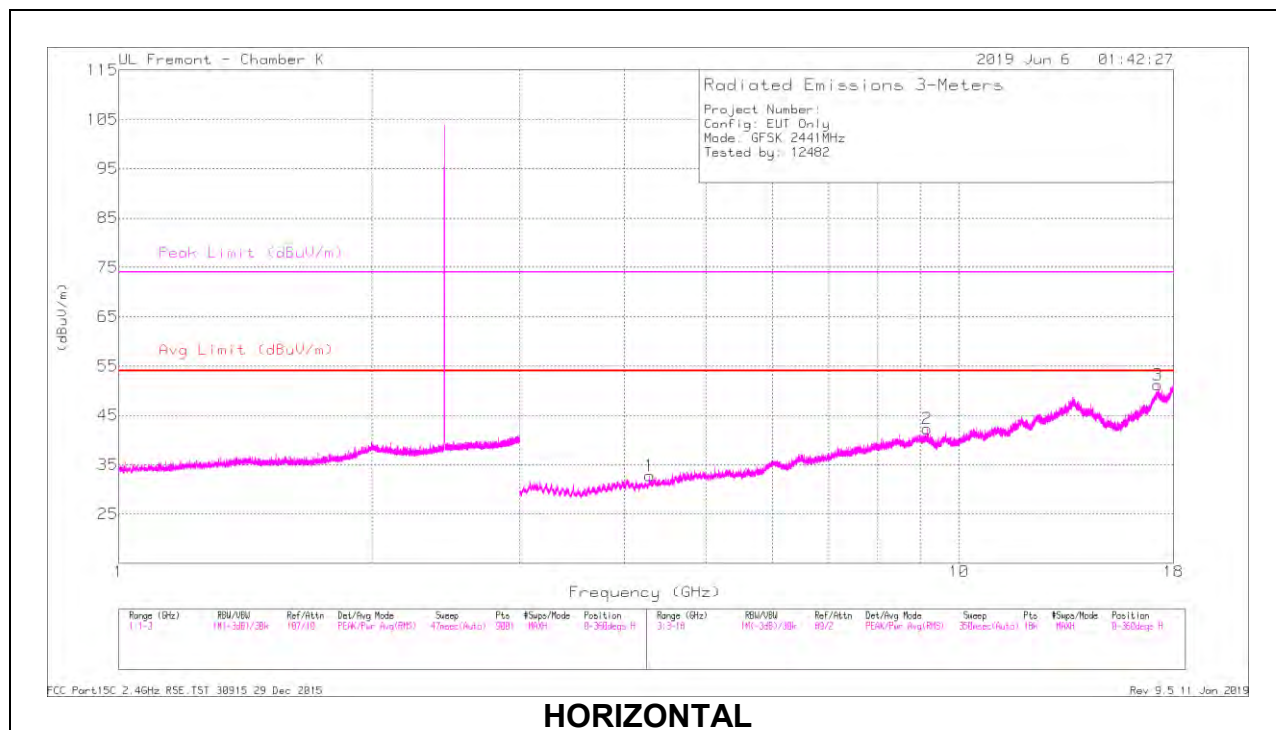
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.238	43.22	PKFH	24.3	-23.9	43.62	-	-	74	-30.38	267	155	H
	* 1.237	30	VA1T	24.3	-23.9	30.4	54	-23.6	-	-	267	155	H
2	* 4.761	38.83	PKFH	32.8	-30.2	41.43	-	-	74	-32.57	243	116	H
	* 4.761	25.54	VA1T	32.8	-30.2	28.14	54	-25.86	-	-	243	116	H
3	8.865	34.43	PKFH	38.6	-23.9	49.13	-	-	-	-	179	265	H
	8.865	20.98	VA1T	38.6	-23.9	35.68	-	-	-	-	179	265	H
4	* 3.879	40.69	PKFH	31.3	-31.7	40.29	-	-	74	-33.71	247	140	V
	* 3.882	26.88	VA1T	31.3	-31.6	26.58	54	-27.42	-	-	247	140	V
5	* 8.102	36.01	PKFH	37.9	-25.5	48.41	-	-	74	-25.59	40	302	V
	* 8.102	21.98	VA1T	37.9	-25.5	34.38	54	-19.62	-	-	40	302	V
6	13.647	30.93	PKFH	43.1	-18.5	55.53	-	-	-	-	275	170	V

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

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

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

MID CHANNEL RESULTS



RADIATED EMISSIONS

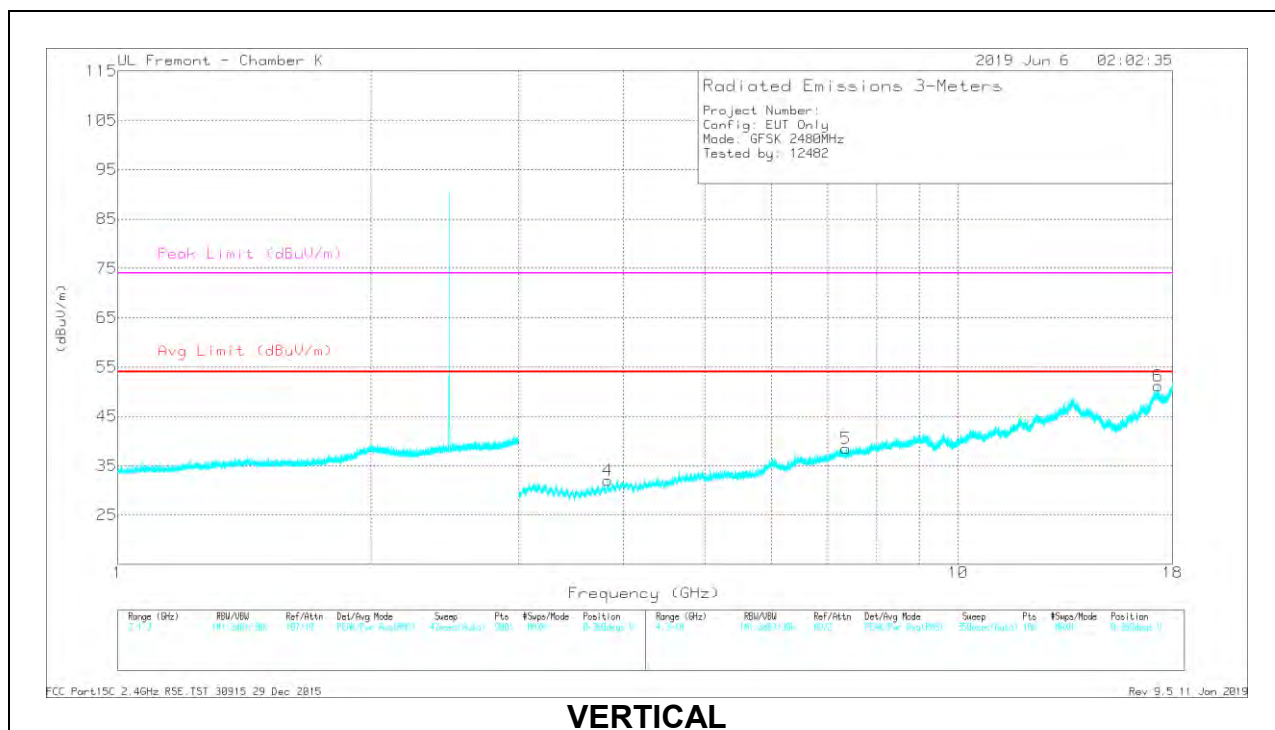
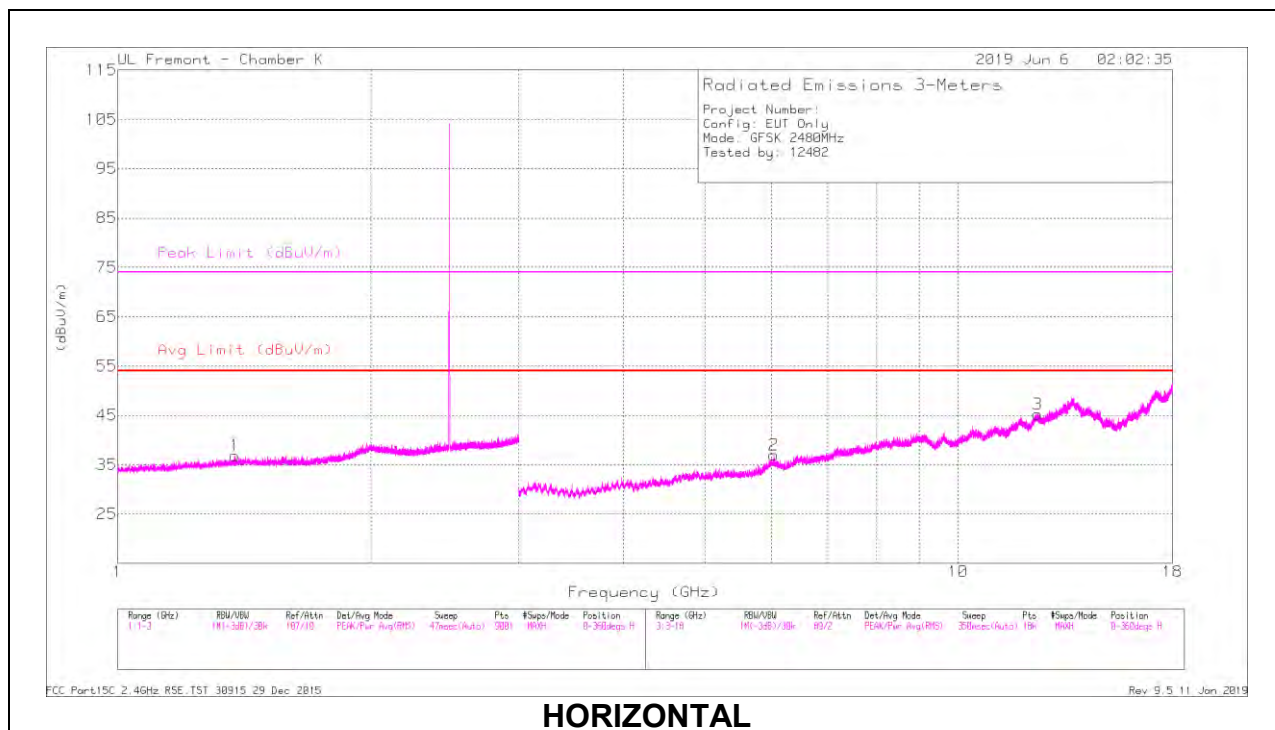
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 1 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.285	40.28	PKFH	31.4	-31.4	40.28	-	-	74	-33.72	111	226	H
	* 4.287	26.81	VA1T	31.4	-31.4	26.81	54	-27.19	-	-	111	226	H
2	* 9.166	33.95	PKFH	38.6	-22.9	49.65	-	-	74	-24.35	123	189	H
	* 9.169	20.36	VA1T	38.6	-22.9	36.06	54	-17.94	-	-	123	189	H
3	17.245	31.68	PKFH	43.3	-16.5	58.48	-	-	-	-	93	302	H
4	* 3.614	40.92	PKFH	29.9	-32.2	38.62	-	-	74	-35.38	323	102	V
	* 3.618	27.6	VA1T	29.9	-32.2	25.3	54	-28.7	-	-	323	102	V
5	* 7.608	35.44	PKFH	37.2	-25.4	47.24	-	-	74	-26.76	114	151	V
	* 7.606	21.63	VA1T	37.2	-25.4	33.43	54	-20.57	-	-	114	151	V
6	17.28	31.14	PKFH	43.2	-16	58.34	-	-	-	-	55	203	V

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

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, 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 PRE019081 1 (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	* 1.377	43.75	PKFH	24.7	-23.8	44.65	-	-	74	-29.35	358	146	H
	* 1.379	30.09	VA1T	24.7	-23.8	30.99	54	-23.01	-	-	358	146	H
2	6.04	36.84	PKFH	35	-27.2	44.64	-	-	-	-	58	230	H
3	* 12.446	32.47	PKFH	40.9	-20.1	53.27	-	-	74	-20.73	346	126	H
	* 12.449	18.96	VA1T	40.9	-20.1	39.76	54	-14.24	-	-	346	126	H
4	* 3.83	40.03	PKFH	31	-31.3	39.73	-	-	74	-34.27	85	218	V
	* 3.83	26.52	VA1T	31	-31.3	26.22	54	-27.78	-	-	85	218	V
5	* 7.35	35.87	PKFH	37.1	-26.4	46.57	-	-	74	-27.43	199	232	V
	* 7.352	22.18	VA1T	37.1	-26.4	32.88	54	-21.12	-	-	199	232	V
6	17.291	30.97	PKFH	43.2	-15.9	58.27	-	-	-	-	268	216	V

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

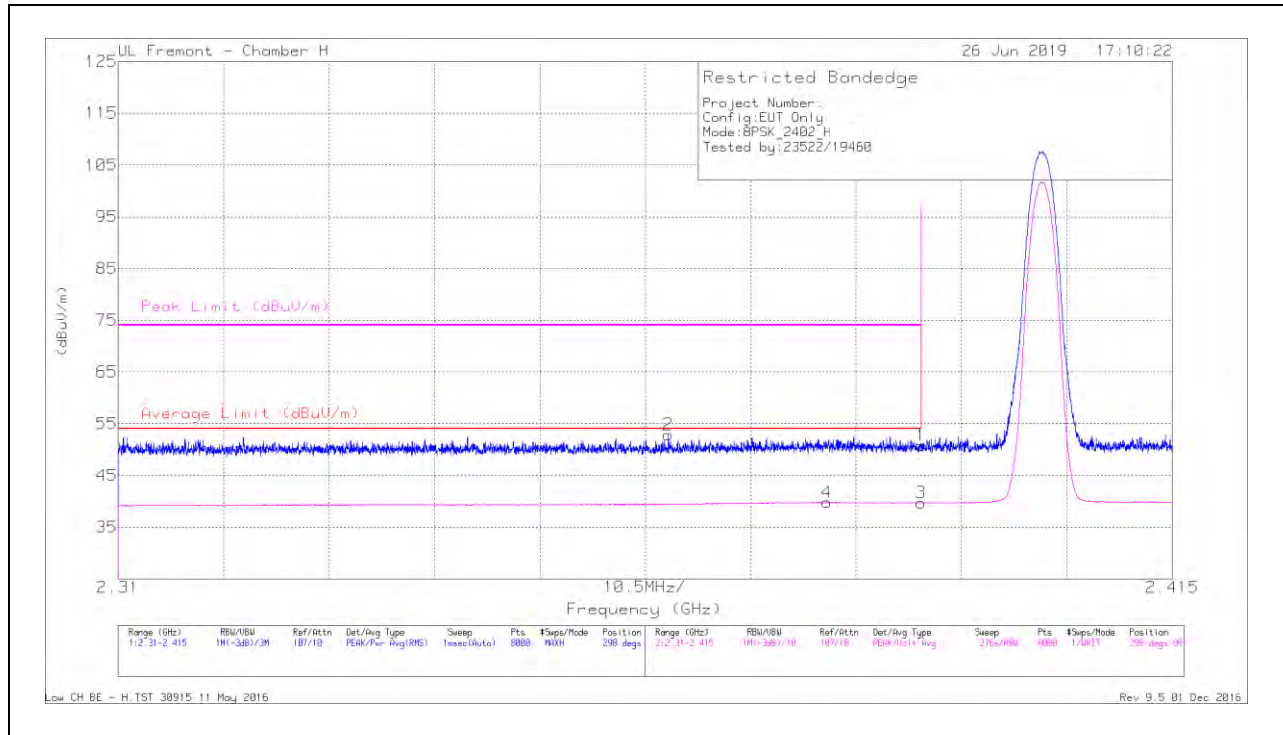
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

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

9.2.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 2.365	44.45	Pk	32	-23.6	52.85	-	-	74	-21.15	298	98	H
4	* 2.381	31.1	VA1T	32.2	-23.5	39.8	54	-14.2	-	-	298	98	H
1	* 2.39	42.17	Pk	32.1	-23.5	50.77	-	-	74	-23.23	298	98	H
3	* 2.39	31.13	VA1T	32.1	-23.5	39.73	54	-14.27	-	-	298	98	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

UL Fremont - Chamber H

26 Jun 2019 17:18:35

Restricted Bandedge

Project Number:

Config: EUT Only

Mode: 8PSK_2402 U

Tested by: 23522/19468

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

dBuV/m

Frequency (GHz)

10.5MHz/

2.31 2.415

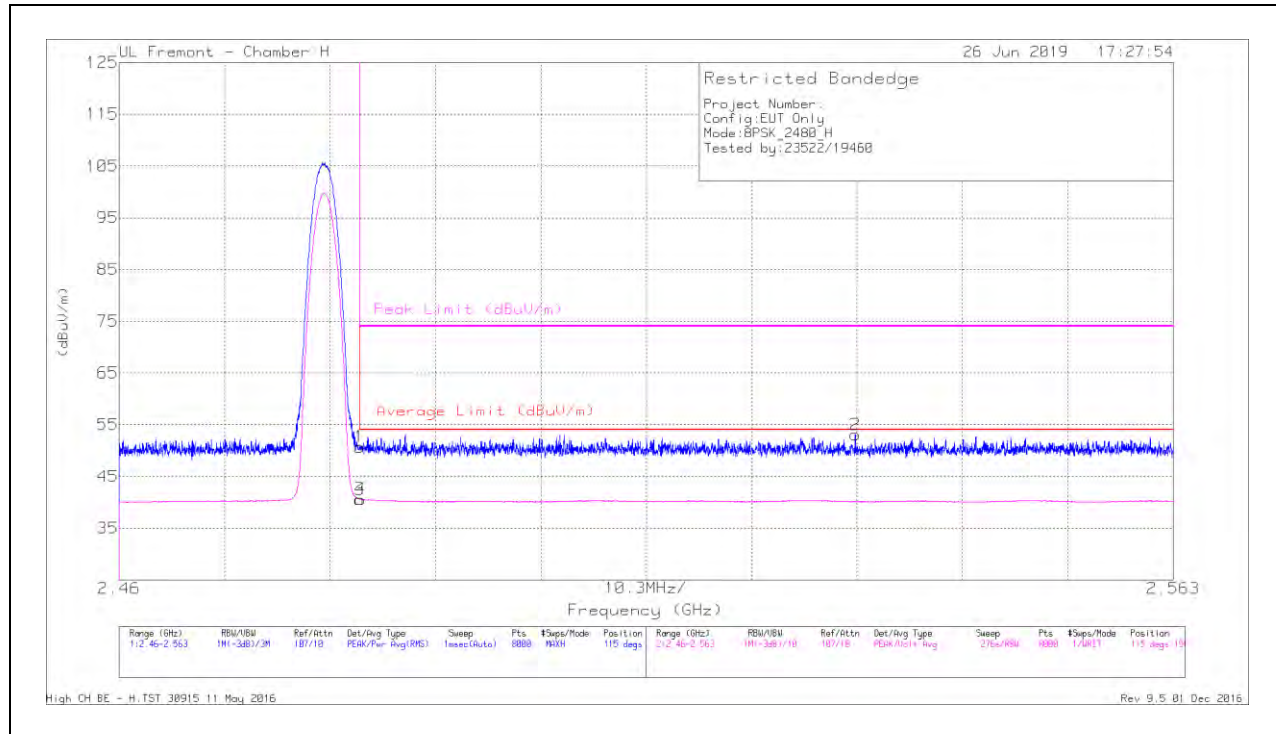
Range (Hz)	RBW/VBW	Ref/Att'n	Det/Avg Type	Sweep	Pts	#Sps/Mode	Position	Range (Hz)	RBW/VBW	Ref/Att'n	Det/Avg Type	Sweep	Pts	#Sps/Mode	Position
2.31-2.415	100-300-30	107/10	PK-Avg/Avg	1 Sweep/100Hz	4000	1000	210 deg	2.31-2.415	100-300-30	107/10	PK-Avg/Avg	1 Sweep/100Hz	4000	1000	210 deg

Low CH BE - U-TST 38915: 11 May 2016

Rev 9.5 01 Dec 2016

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	41.84	Pk	32.1	-23.5	50.44	-	-	74	-23.56	255	351	V
2	* 2.388	44.28	Pk	32.1	-23.5	52.88	-	-	74	-21.12	255	351	V
3	* 2.39	31.09	VA1T	32.1	-23.5	39.69	54	-14.31	-	-	255	351	V
4	* 2.382	31.07	VA1T	32.2	-23.5	39.77	54	-14.23	-	-	255	351	V

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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

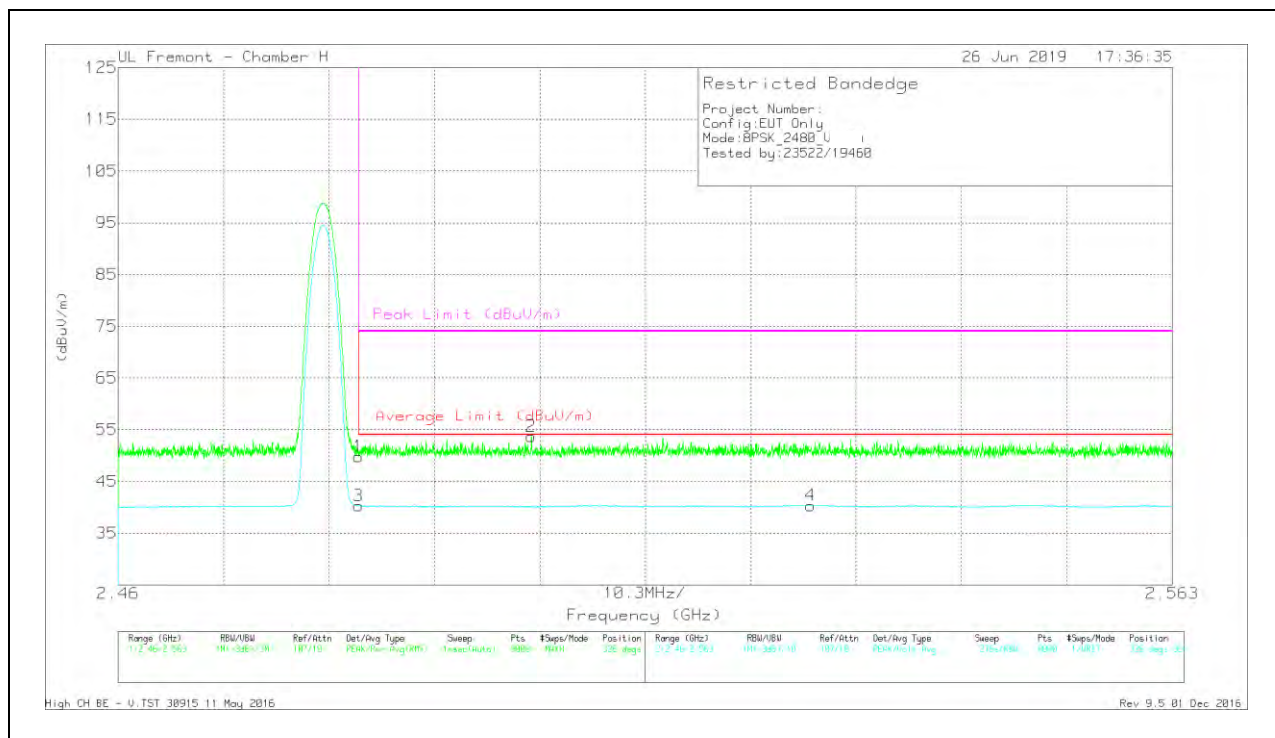
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.52	Pk	32.5	-23.3	50.72	-	-	74	-23.28	115	156	H
3	* 2.484	31.36	VA1T	32.5	-23.3	40.56	54	-13.44	-	-	115	156	H
4	* 2.484	31.39	VA1T	32.5	-23.3	40.59	54	-13.41	-	-	115	156	H
2	2.532	43.67	Pk	32.6	-23.2	53.07	-	-	74	-20.93	115	156	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	40.64	Pk	32.5	-23.3	49.84	-	-	74	-24.16	326	368	V
3	* 2.484	31.07	VA1T	32.5	-23.3	40.27	54	-13.73	-	-	326	368	V
2	2.5	44.49	Pk	32.5	-23.3	53.69	-	-	74	-20.31	326	368	V
4	2.528	30.85	VA1T	32.6	-23.1	40.35	54	-13.65	-	-	326	368	V

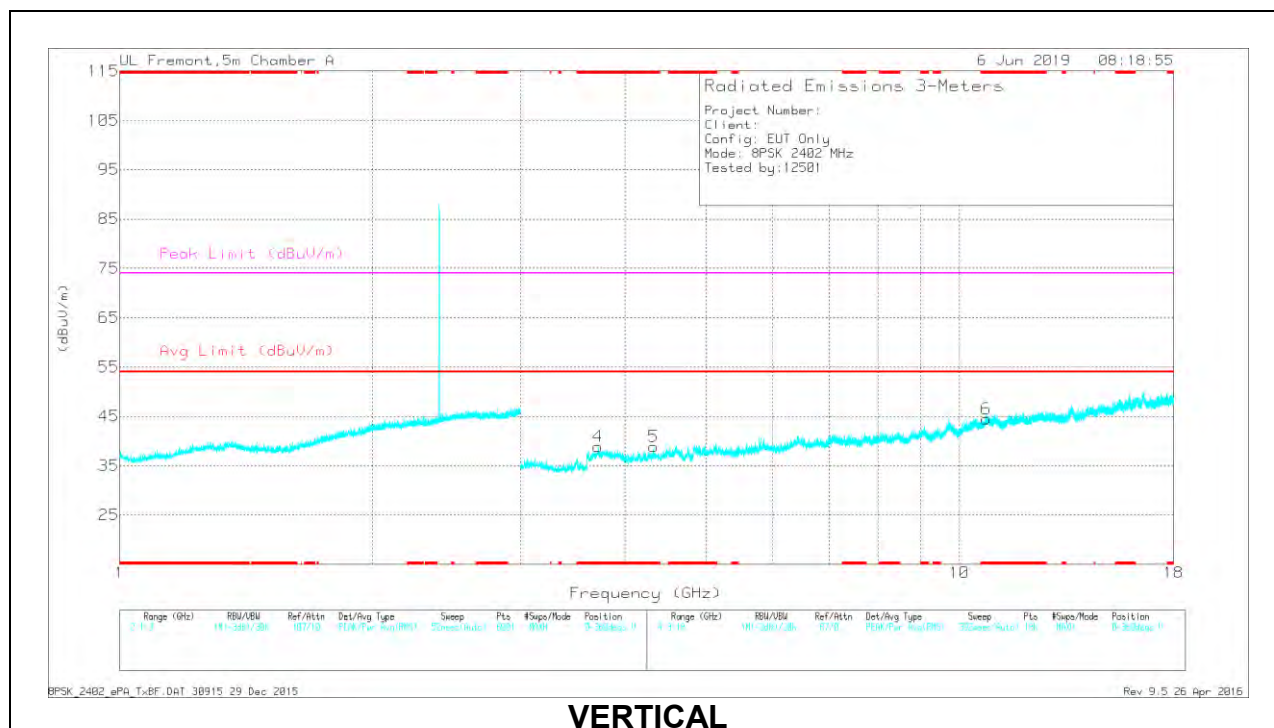
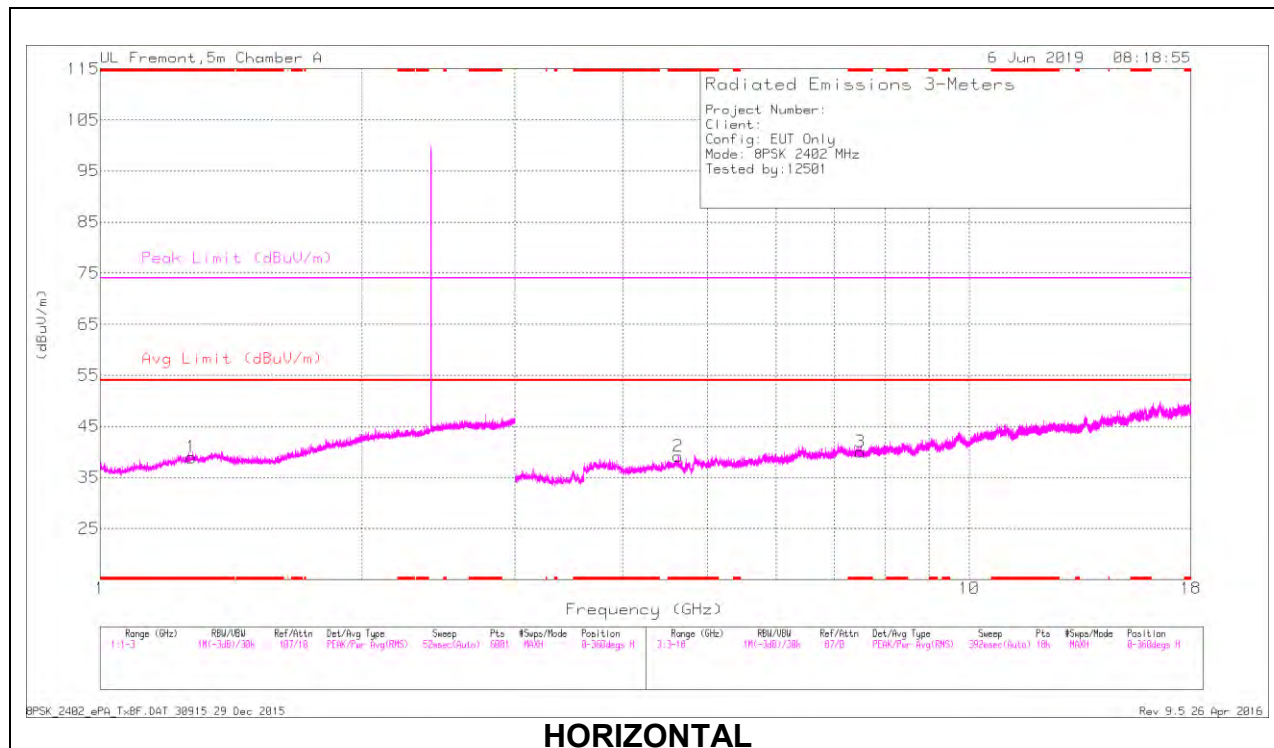
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

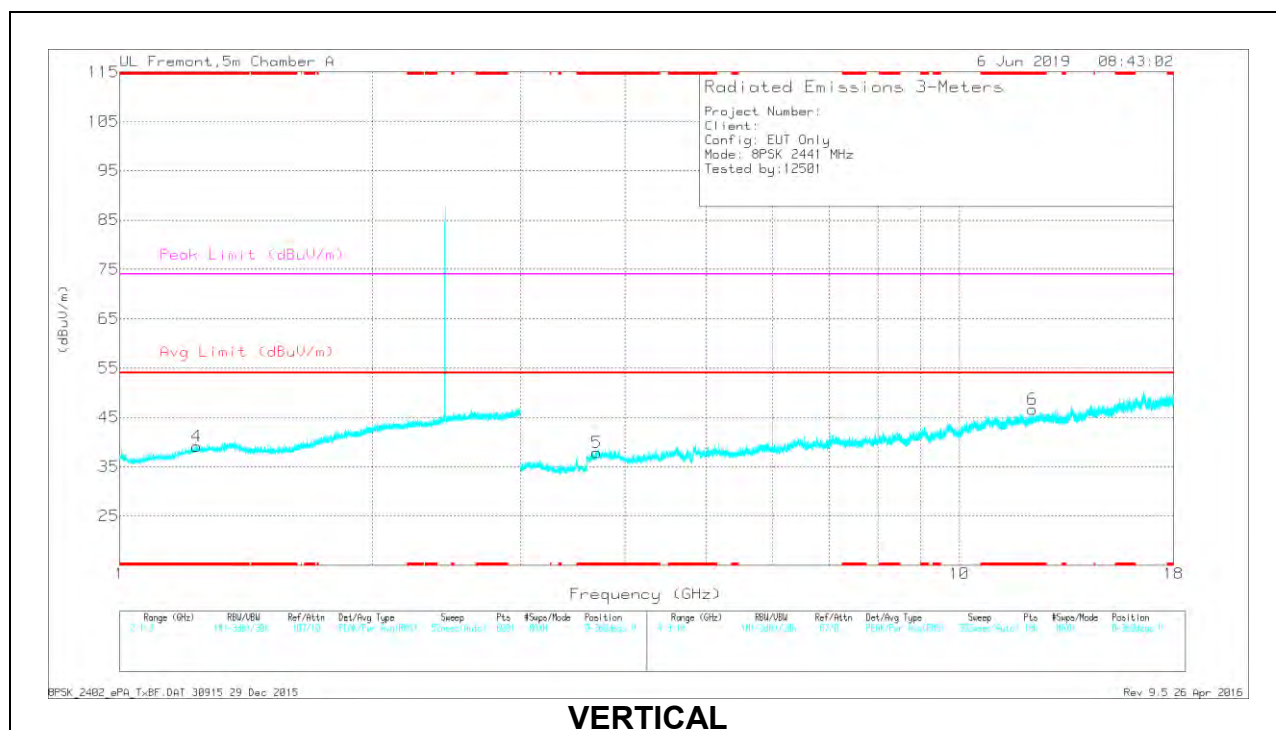
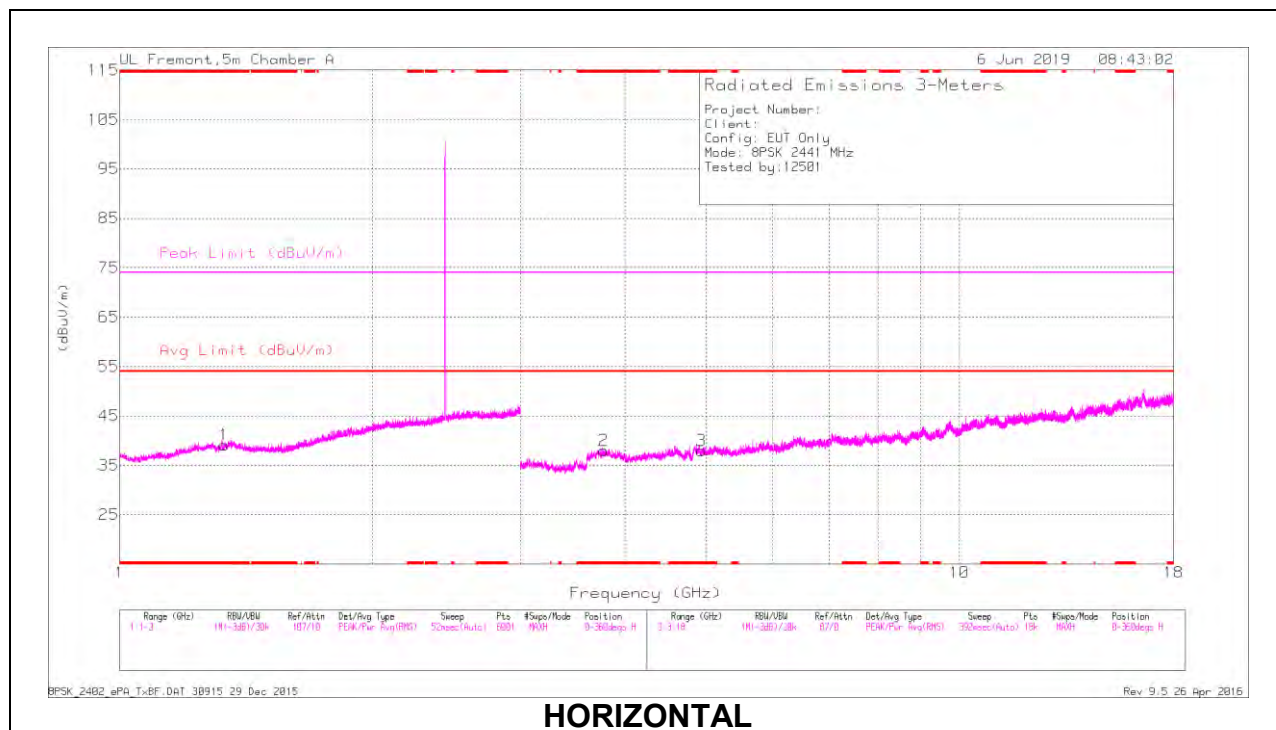
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.273	41.05	PKFH	29.1	-25	45.15	-	-	74	-28.85	16	102	H
	* 1.274	29.64	VA1T	29.1	-24.9	33.84	54	-20.16	-	-	16	102	H
2	* 4.63	38.91	PKFH	34.3	-28.5	44.71	-	-	74	-29.29	83	199	H
	* 4.627	26.81	VA1T	34.3	-28.4	32.71	54	-21.29	-	-	83	199	H
3	* 7.494	33.83	PKFH	35.8	-23.1	46.53	-	-	74	-27.47	109	142	H
	* 7.494	22.52	VA1T	35.8	-23.1	35.22	54	-18.78	-	-	109	142	H
4	* 3.715	39.02	PKFH	33.3	-28.6	43.72	-	-	74	-30.28	231	181	V
	* 3.715	27.59	VA1T	33.3	-28.6	32.29	54	-21.71	-	-	231	181	V
5	* 4.329	39.03	PKFH	33.6	-28.5	44.13	-	-	74	-29.87	104	288	V
	* 4.329	27.22	VA1T	33.6	-28.5	32.32	54	-21.68	-	-	104	288	V
6	* 10.77	32.38	PKFH	37.9	-19.6	50.68	-	-	74	-23.32	213	167	V
	* 10.77	21.25	VA1T	37.9	-19.6	39.55	54	-14.45	-	-	213	167	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

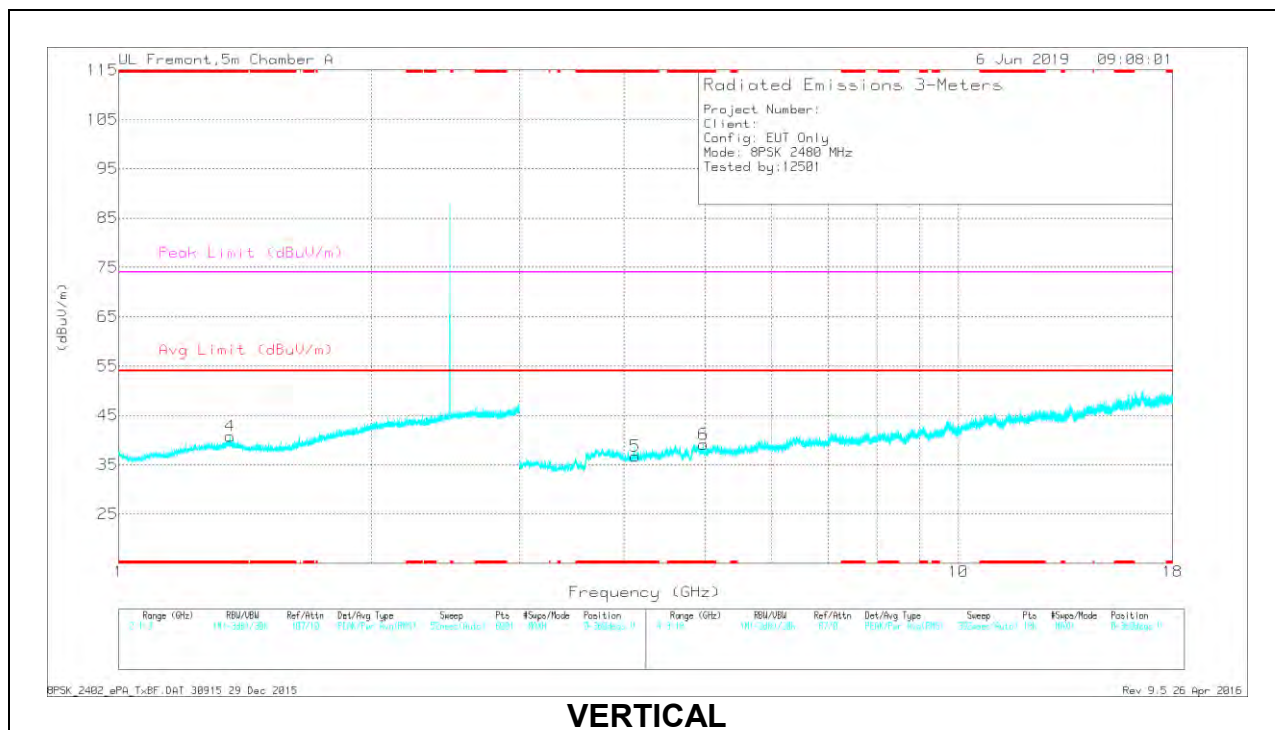
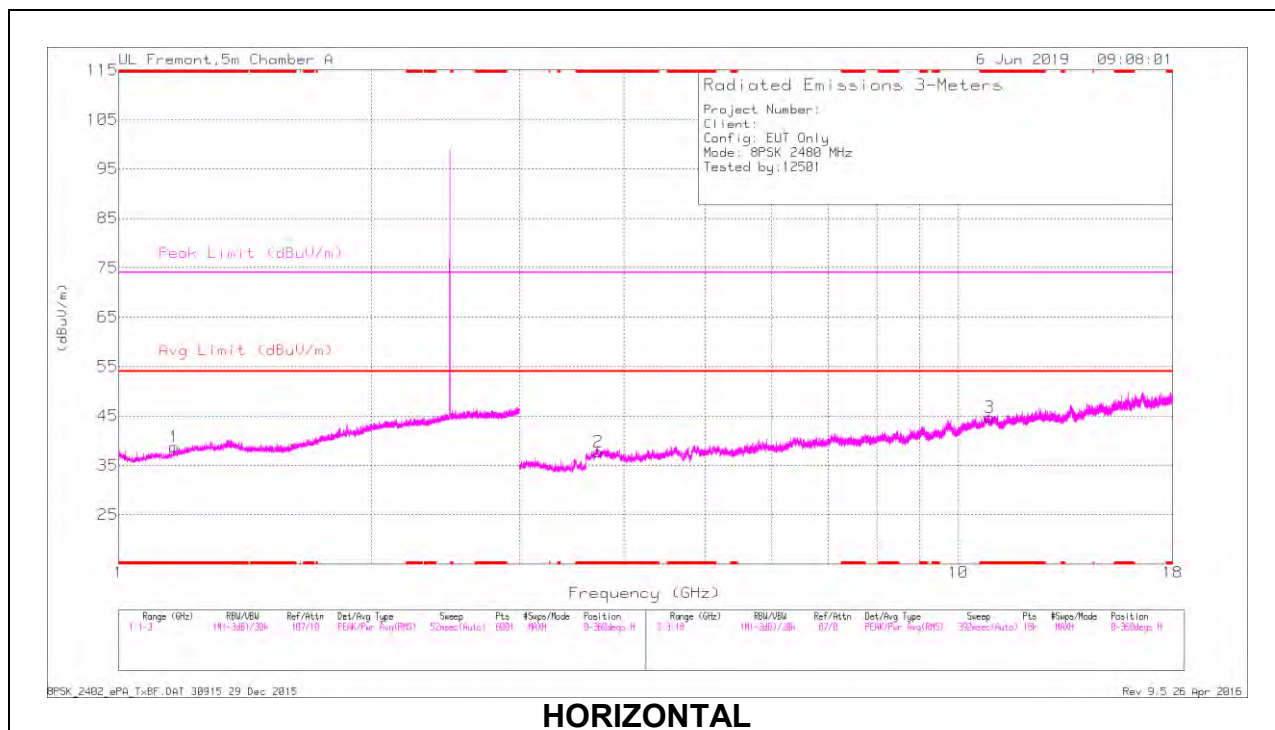
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.333	40.83	PKFH	29.1	-25	44.93	-	-	74	-29.07	312	384	H
	* 1.334	29.73	VA1T	29.1	-24.9	33.93	54	-20.07	-	-	312	384	H
4	* 1.233	40.76	PKFH	28.8	-24.9	44.66	-	-	74	-29.34	102	274	V
	* 1.233	29.72	VA1T	28.8	-24.9	33.62	54	-20.38	-	-	102	274	V
2	* 3.773	38.88	PKFH	33.6	-28.9	43.58	-	-	74	-30.42	213	193	H
	* 3.771	27.75	VA1T	33.6	-29	32.35	54	-21.65	-	-	213	193	H
3	* 4.927	37.33	PKFH	34.2	-27.8	43.73	-	-	74	-30.27	284	180	H
	* 4.927	26.03	VA1T	34.2	-27.8	32.43	54	-21.57	-	-	284	180	H
5	* 3.703	39.91	PKFH	33.2	-28.6	44.51	-	-	74	-29.49	118	173	V
	* 3.705	27.63	VA1T	33.3	-28.7	32.23	54	-21.77	-	-	118	173	V
6	* 12.229	33.04	PKFH	39	-20.2	51.84	-	-	74	-22.16	274	103	V
	* 12.231	21.35	VA1T	38.9	-20.2	40.05	54	-13.95	-	-	274	103	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 T346 (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	* 1.166	41.66	PKFH	27.8	-25.1	44.36	-	-	74	-29.64	23	198	H
	* 1.166	29.71	VA1T	27.8	-25.1	32.41	54	-21.59	-	-	23	198	H
4	* 1.357	41.63	PKFH	29.6	-25	46.23	-	-	74	-27.77	118	117	V
	* 1.358	29.69	VA1T	29.6	-25	34.29	54	-19.71	-	-	118	117	V
2	* 3.723	38.92	PKFH	33.4	-28.7	43.62	-	-	74	-30.38	298	241	H
	* 3.723	27.48	VA1T	33.4	-28.7	32.18	54	-21.82	-	-	298	241	H
3	* 10.903	34.21	PKFH	38	-20.3	51.91	-	-	74	-22.09	321	301	H
	* 10.901	21.75	VA1T	38	-20.3	39.45	54	-14.55	-	-	321	301	H
5	* 4.122	38.43	PKFH	33.5	-28.7	43.23	-	-	74	-30.77	202	219	V
	* 4.121	26.61	VA1T	33.5	-28.7	31.41	54	-22.59	-	-	202	219	V
6	* 4.975	38.16	PKFH	34.3	-28.2	44.26	-	-	74	-29.74	100	116	V
	* 4.972	26.73	VA1T	34.3	-28.2	32.83	54	-21.17	-	-	100	116	V

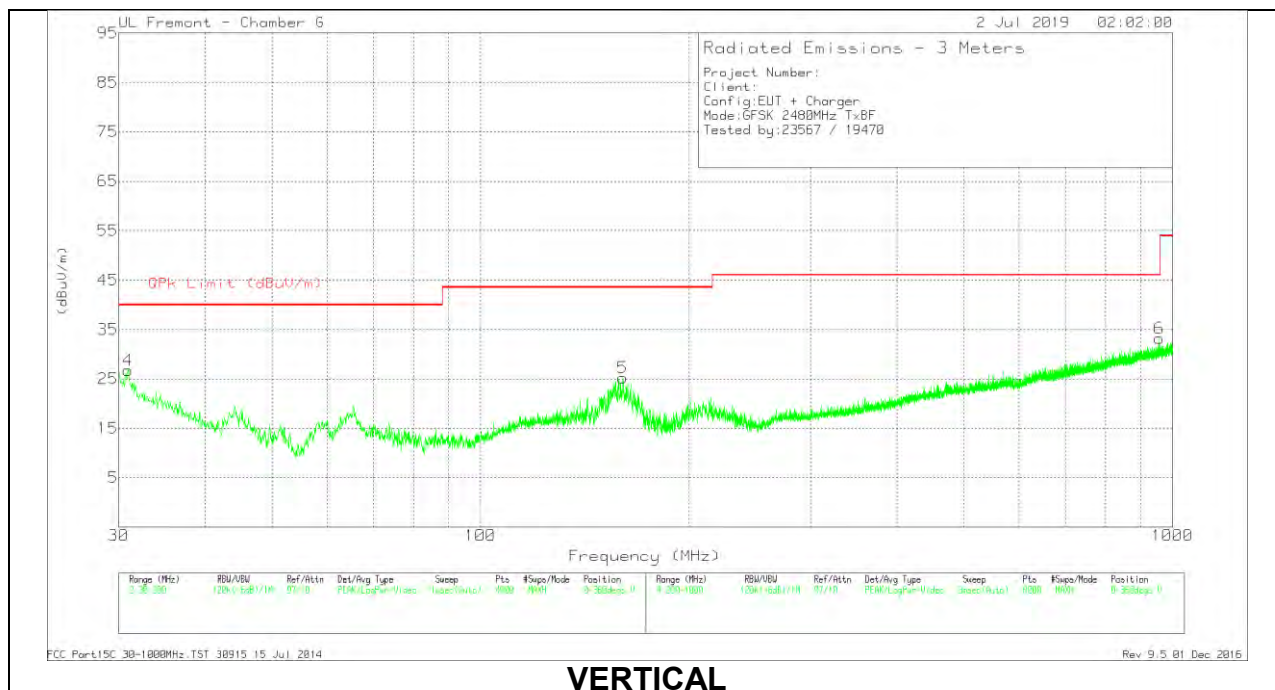
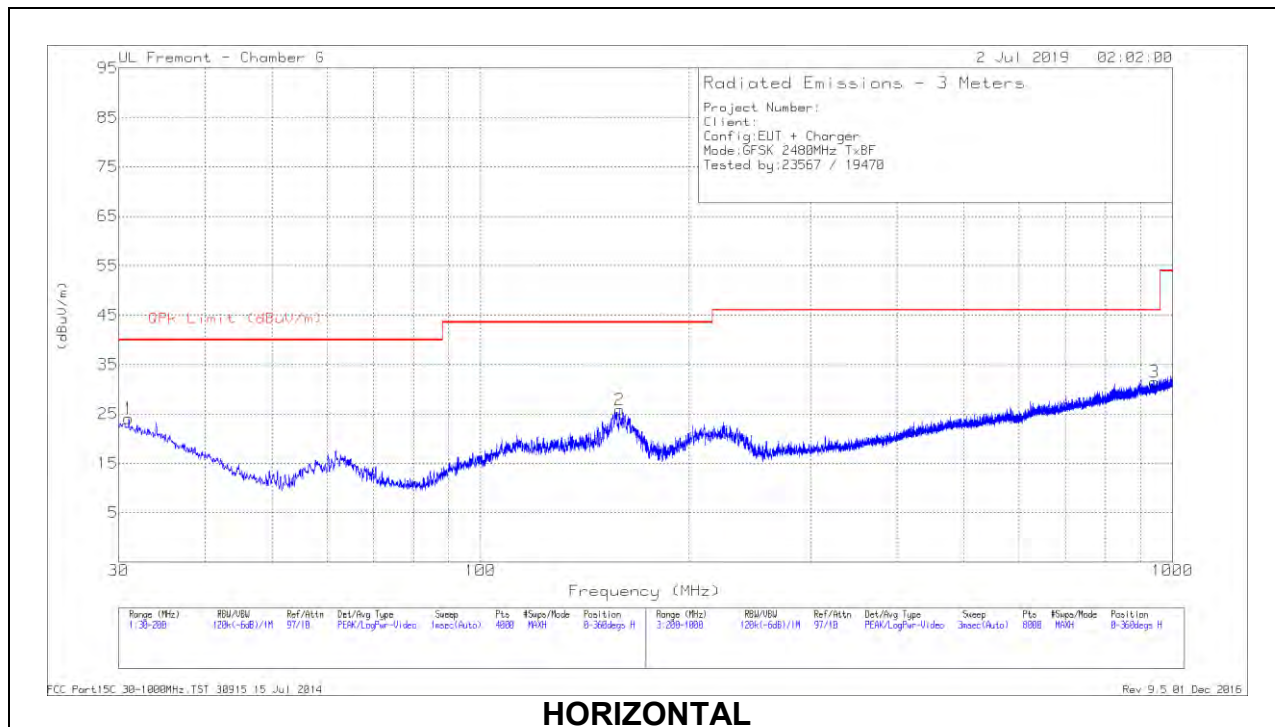
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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)



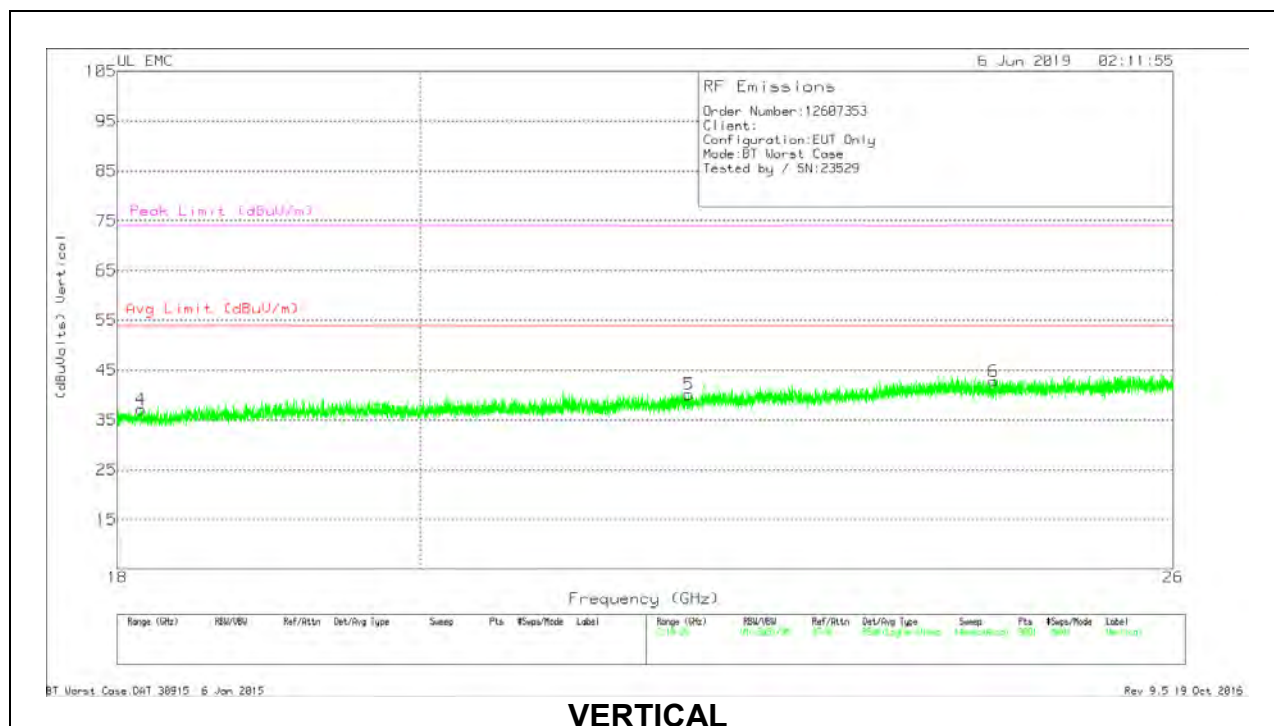
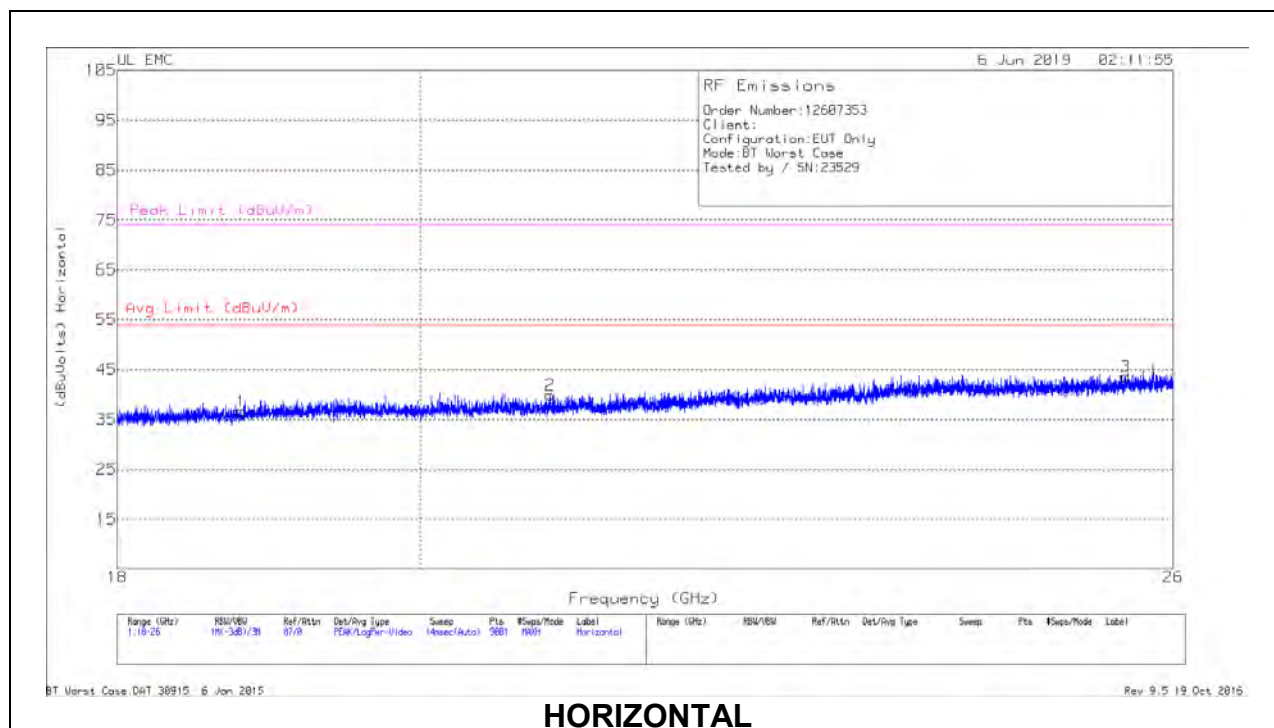
Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	31.0822	22.56	Qp	26.3	-31.2	17.66	40	-22.34	0	100	H
1	158.5689	22.76	Qp	18.1	-29.9	10.96	43.52	-32.56	0	100	H
2	30.711	24.54	Qp	26.4	-31.2	19.74	40	-20.26	0	100	V
5	160.6505	26.59	Qp	18	-29.8	14.79	43.52	-28.73	0	100	V
3	940.7232	21.72	Qp	28.5	-25.5	24.72	46.02	-21.3	0	100	H
6	956.4586	21.65	Qp	28.8	-25.4	25.05	46.02	-20.97	0	100	V

Qp - Quasi-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	18.796	35.62	Pk	32.4	-21.9	-9.5	36.62	54	-17.38	74	-37.38
2	20.927	37.49	Pk	33.1	-21.2	-9.5	39.89	54	-14.11	74	-34.11
3	25.572	38.41	Pk	34.5	-19.8	-9.5	43.61	54	-10.39	74	-30.39
4	18.148	36.81	Pk	32.3	-22.4	-9.5	37.21	54	-16.79	74	-36.79
5	21.962	37.13	Pk	33.3	-20.8	-9.5	40.13	54	-13.87	74	-33.87
6	24.423	37.58	Pk	34.3	-19.6	-9.5	42.78	54	-11.22	74	-31.22

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 C63.4.

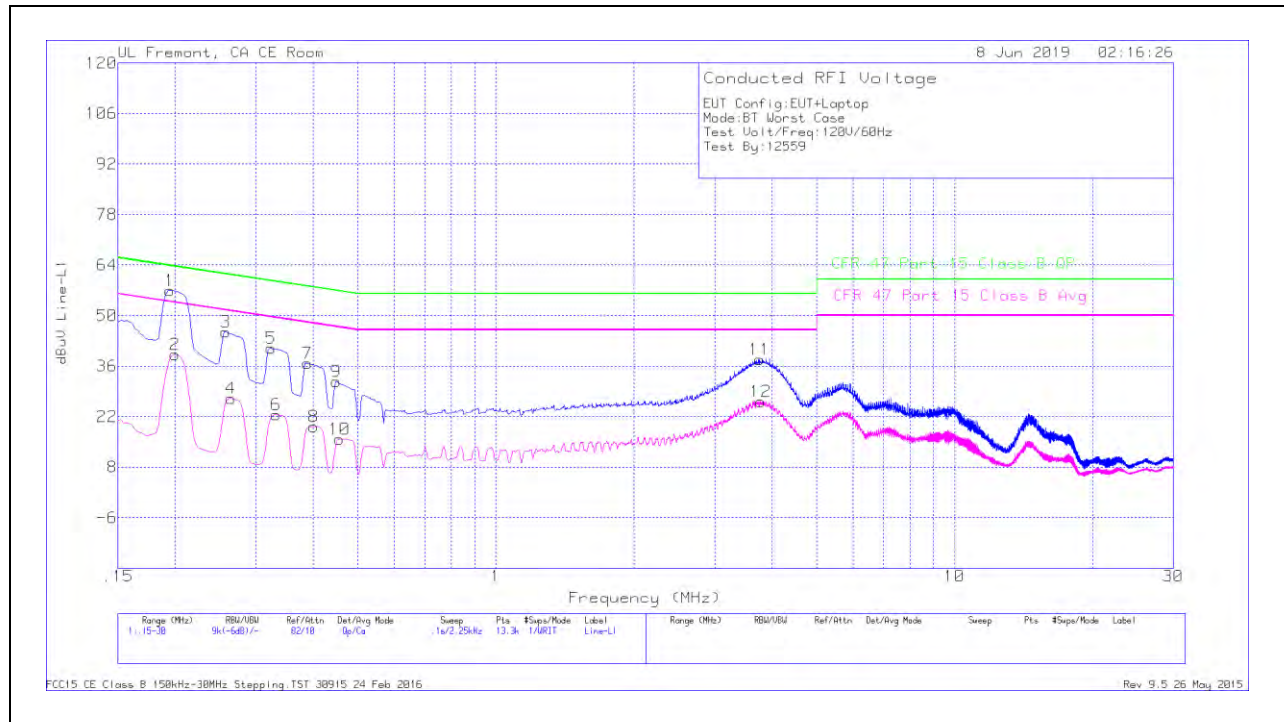
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1. AC Power Line Host

LINE 1 RESULTS

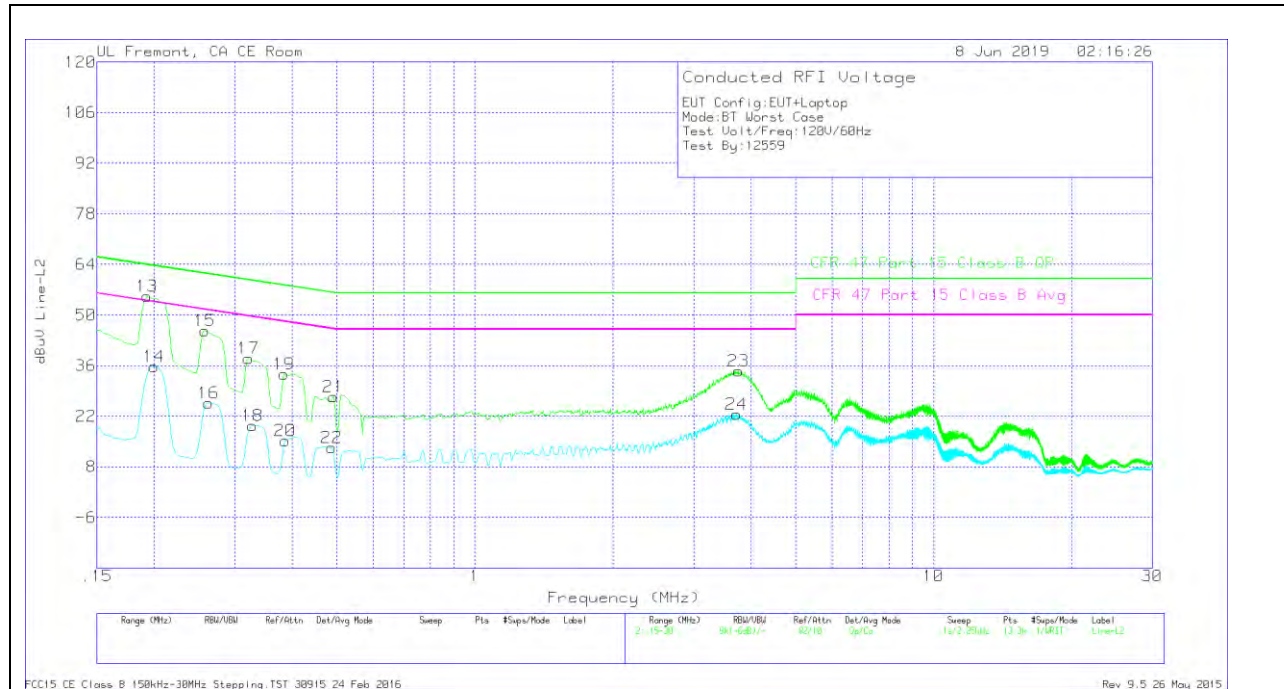


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.195	46.93	Qp	0	0	10.1	57.03	63.82	-6.79	-	-
2	.1995	29.06	Ca	0	0	10.1	39.16	-	-	53.63	-14.47
3	.258	35.41	Qp	0	0	10.1	45.51	61.5	-15.99	-	-
4	.26475	16.91	Ca	0	0	10.1	27.01	-	-	51.28	-24.27
5	.32325	30.84	Qp	0	0	10.1	40.94	59.62	-18.68	-	-
6	.33225	12.42	Ca	0	0	10.1	22.52	-	-	49.39	-26.87
7	.3885	26.65	Qp	0	0	10.1	36.75	58.1	-21.35	-	-
8	.40087	9.14	Ca	0	0	10.1	19.24	-	-	47.84	-28.6
9	.44925	21.65	Qp	0	0	10.1	31.75	56.89	-25.14	-	-
10	.456	5.65	Ca	0	0	10.1	15.75	-	-	46.77	-31.02
11	3.759	27.69	Qp	0	.1	10.1	37.89	56	-18.11	-	-
12	3.77925	15.95	Ca	0	.1	10.1	26.15	-	-	46	-19.85

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



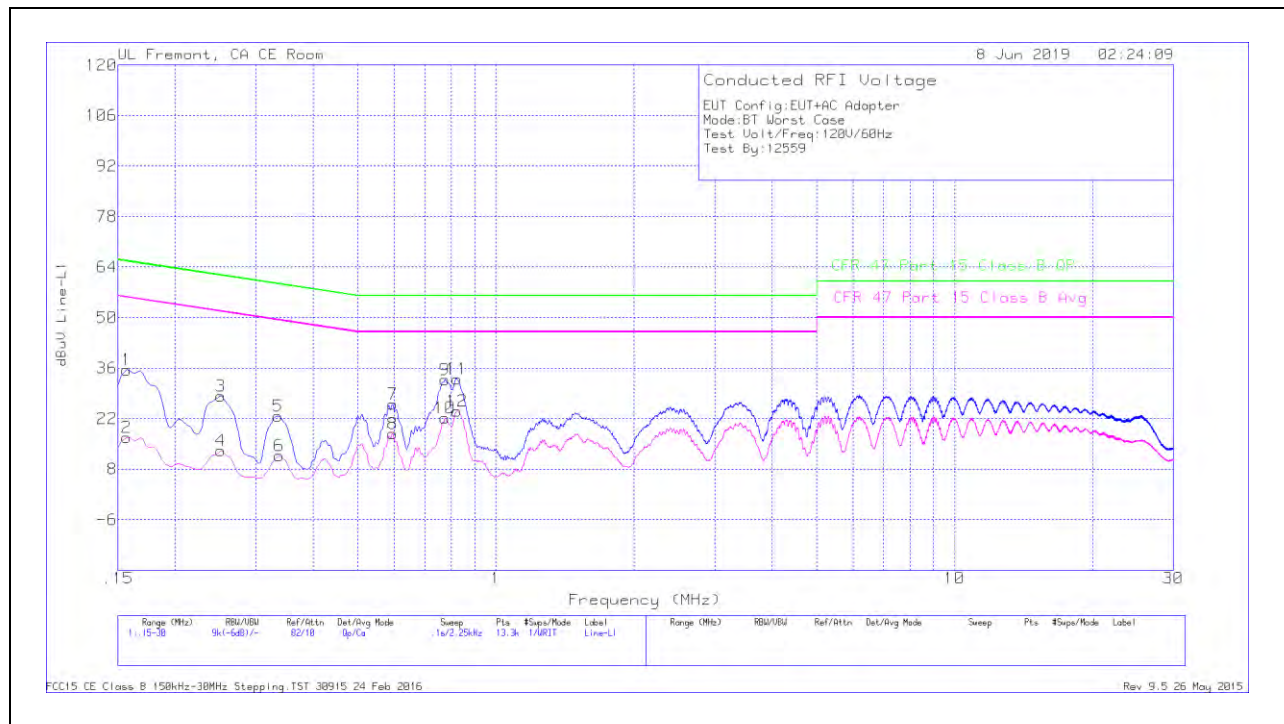
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.19275	45.1	Qp	0	0	10.1	55.2	63.92	-8.72	-	-
14	.1995	25.7	Ca	0	0	10.1	35.8	-	-	53.63	-17.83
15	.258	35.53	Qp	0	0	10.1	45.63	61.5	-15.87	-	-
16	.2625	15.53	Ca	0	0	10.1	25.63	-	-	51.35	-25.72
17	.321	27.85	Qp	0	0	10.1	37.95	59.68	-21.73	-	-
18	.32775	9.25	Ca	0	0	10.1	19.35	-	-	49.51	-30.16
19	.384	23.6	Qp	0	0	10.1	33.7	58.19	-24.49	-	-
20	.38625	5.13	Ca	0	0	10.1	15.23	-	-	48.14	-32.91
21	.492	17.37	Qp	0	0	10.1	27.47	56.13	-28.66	-	-
22	.4875	3.2	Ca	0	0	10.1	13.3	-	-	46.21	-32.91
23	3.75675	24.27	Qp	0	.1	10.1	34.47	56	-21.53	-	-
24	3.71625	12.31	Ca	0	.1	10.1	22.51	-	-	46	-23.49

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.2. AC Power Line Norm

LINE 1 RESULTS

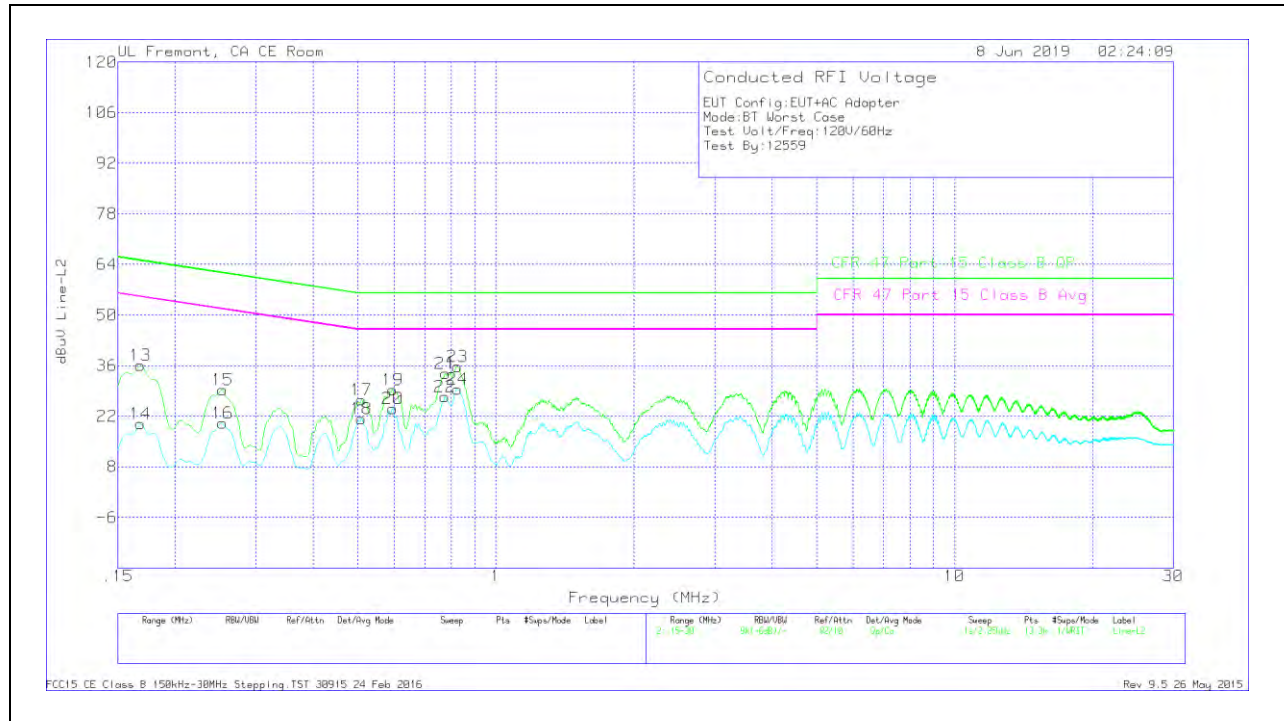


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.15675	25.29	Qp	.1	0	10.1	35.49	65.63	-30.14	-	-
2	.15675	6.67	Ca	.1	0	10.1	16.87	-	-	55.63	-38.76
3	.25125	18.2	Qp	0	0	10.1	28.3	61.72	-33.42	-	-
4	.25125	3.01	Ca	0	0	10.1	13.11	-	-	51.72	-38.61
5	.3345	12.67	Qp	0	0	10.1	22.77	59.34	-36.57	-	-
6	.33675	1.68	Ca	0	0	10.1	11.78	-	-	49.28	-37.5
7	.5955	15.94	Qp	0	0	10.1	26.04	56	-29.96	-	-
8	.5955	7.67	Ca	0	0	10.1	17.77	-	-	46	-28.23
9	.7755	22.69	Qp	0	0	10.1	32.79	56	-23.21	-	-
10	.7755	12.05	Ca	0	0	10.1	22.15	-	-	46	-23.85
11	.82275	22.8	Qp	0	0	10.1	32.9	56	-23.1	-	-
12	.82275	14.04	Ca	0	0	10.1	24.14	-	-	46	-21.86

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	25.92	Qp	.1	0	10.1	36.12	65.06	-28.94	-	-
14	.168	9.65	Ca	.1	0	10.1	19.85	-	-	55.06	-35.21
15	.2535	19.24	Qp	0	0	10.1	29.34	61.64	-32.3	-	-
16	.2535	9.98	Ca	0	0	10.1	20.08	-	-	51.64	-31.56
17	.51	16.48	Qp	0	0	10.1	26.58	56	-29.42	-	-
18	.51	11.29	Ca	0	0	10.1	21.39	-	-	46	-24.61
19	.5955	19.28	Qp	0	0	10.1	29.38	56	-26.62	-	-
20	.5955	13.93	Ca	0	0	10.1	24.03	-	-	46	-21.97
21	.77775	23.67	Qp	0	0	10.1	33.77	56	-22.23	-	-
22	.7775	17.28	Ca	0	0	10.1	27.38	-	-	46	-18.62
23	.825	25.62	Qp	0	0	10.1	35.72	56	-20.28	-	-
24	.82387	19.38	Ca	0	0	10.1	29.48	-	-	46	-16.52

Qp - Quasi-Peak detector

Ca - CISPR average detection

END OF TEST REPORT

11. SETUP PHOTOS

Please refer to 12607353-EP1V1 for setup photos