

9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final scans above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T (10 Hz) video bandwidth with peak detector for average measurements

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

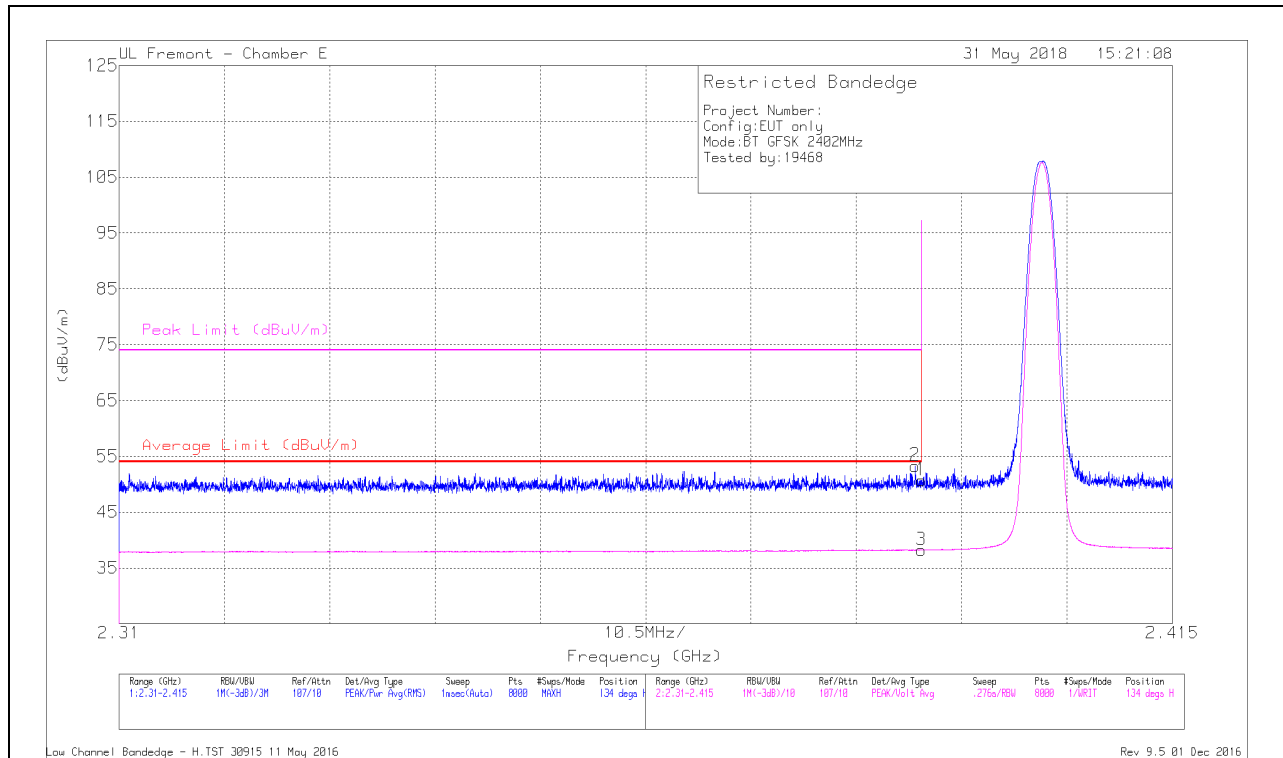
9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



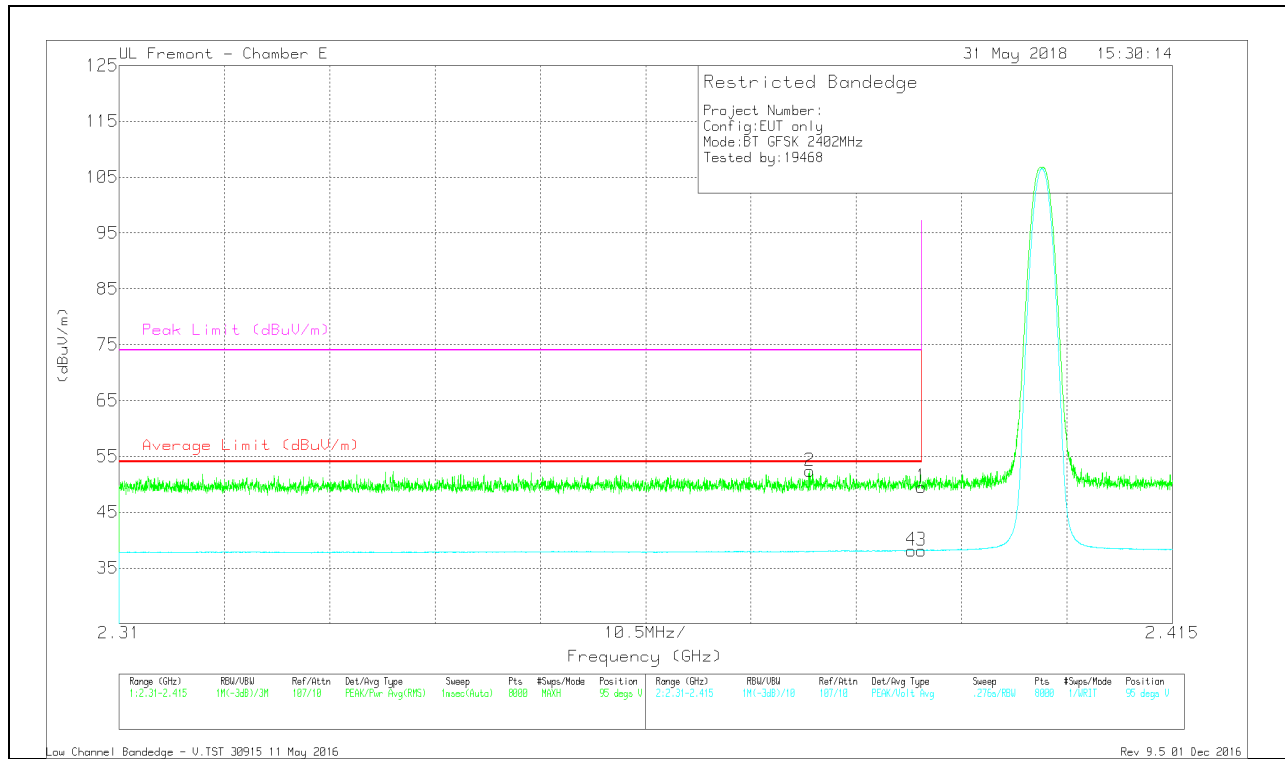
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.32	Pk	32	-22.6	50.72	-	-	74	-23.28	134	131	H
2	* 2.389	43.89	Pk	32	-22.6	53.29	-	-	74	-20.71	134	131	H
3	* 2.39	28.84	VA1T	32	-22.6	38.24	54	-15.76	-	-	134	130	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 T346 (dBm)	Ampl/Cbl/Filtr/Pat (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	40.11	Pk	32	-22.6	49.51	-	-	74	-24.49	95	303	V
2	* 2.379	43.08	Pk	31.9	-22.6	52.38	-	-	74	-21.62	95	303	V
3	* 2.39	28.73	VA1T	32	-22.6	38.13	54	-15.87	-	-	95	303	V
4	* 2.389	28.86	VA1T	31.9	-22.6	38.16	54	-15.84	-	-	95	303	V

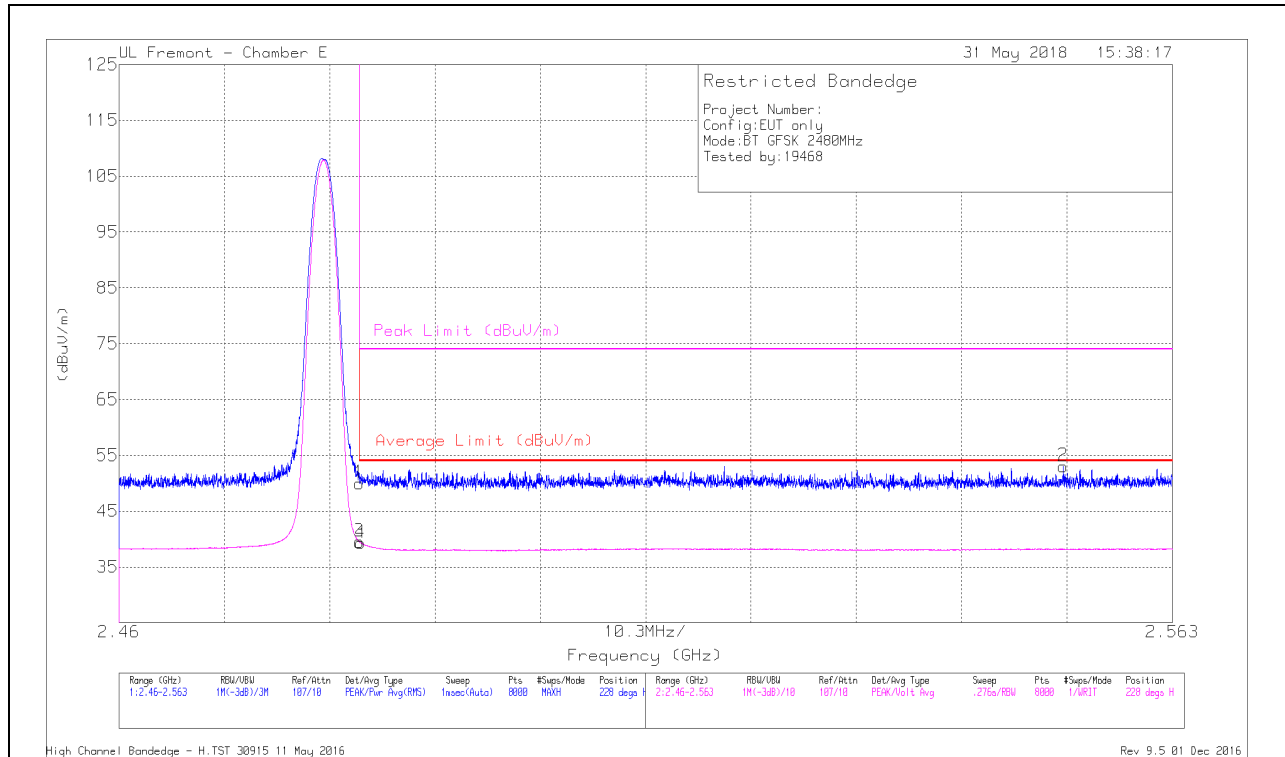
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



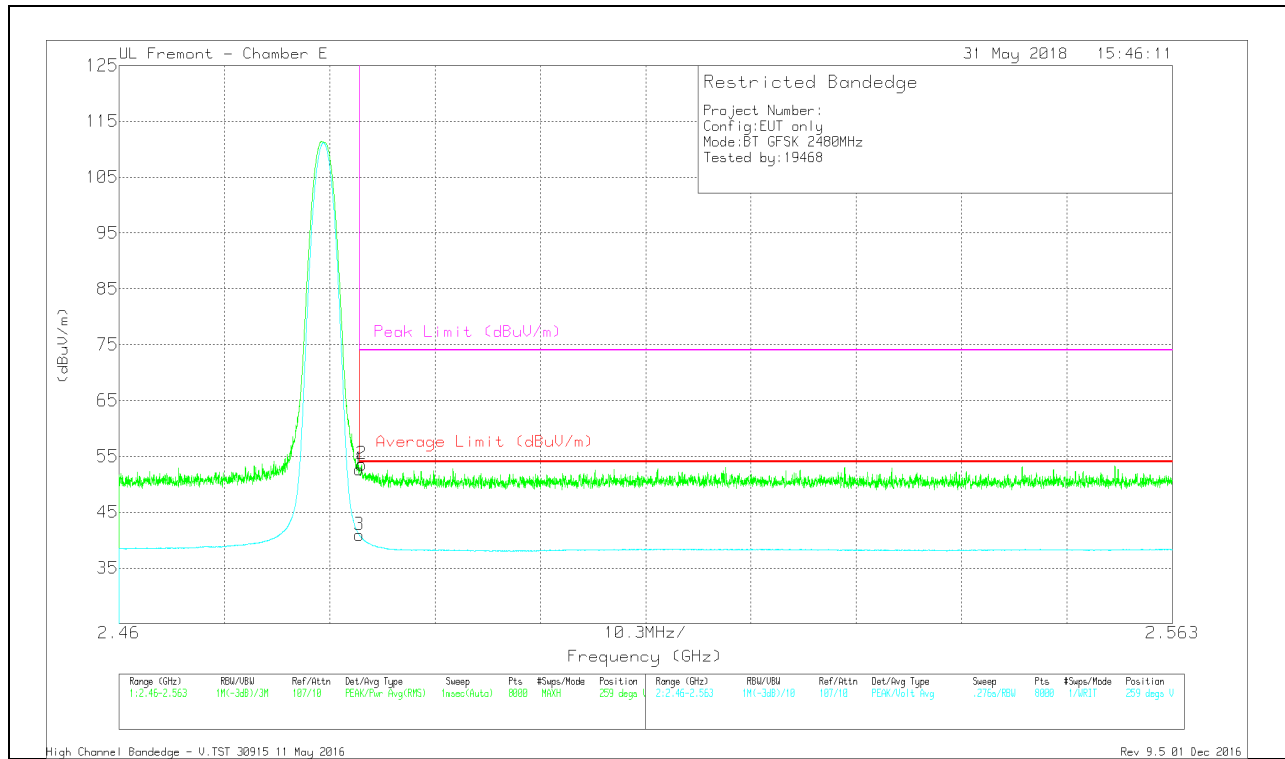
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Fltr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.2	Pk	32.1	-22.3	50	-	-	74	-24	228	148	H
3	* 2.484	29.72	VA1T	32.1	-22.3	39.52	54	-14.48	-	-	228	148	H
4	* 2.484	29.54	VA1T	32.1	-22.3	39.34	54	-14.66	-	-	228	148	H
2	2.552	43.26	Pk	32.1	-22.3	53.06	-	-	74	-20.94	228	148	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 T346 (dBm)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.86	Pk	32.1	-22.3	52.66	-	-	74	-21.34	259	110	V
2	* 2.484	43.77	Pk	32.1	-22.3	53.57	-	-	74	-20.43	259	110	V
3	* 2.484	31.09	VA1T	32.1	-22.3	40.89	54	-13.11	-	-	259	110	V

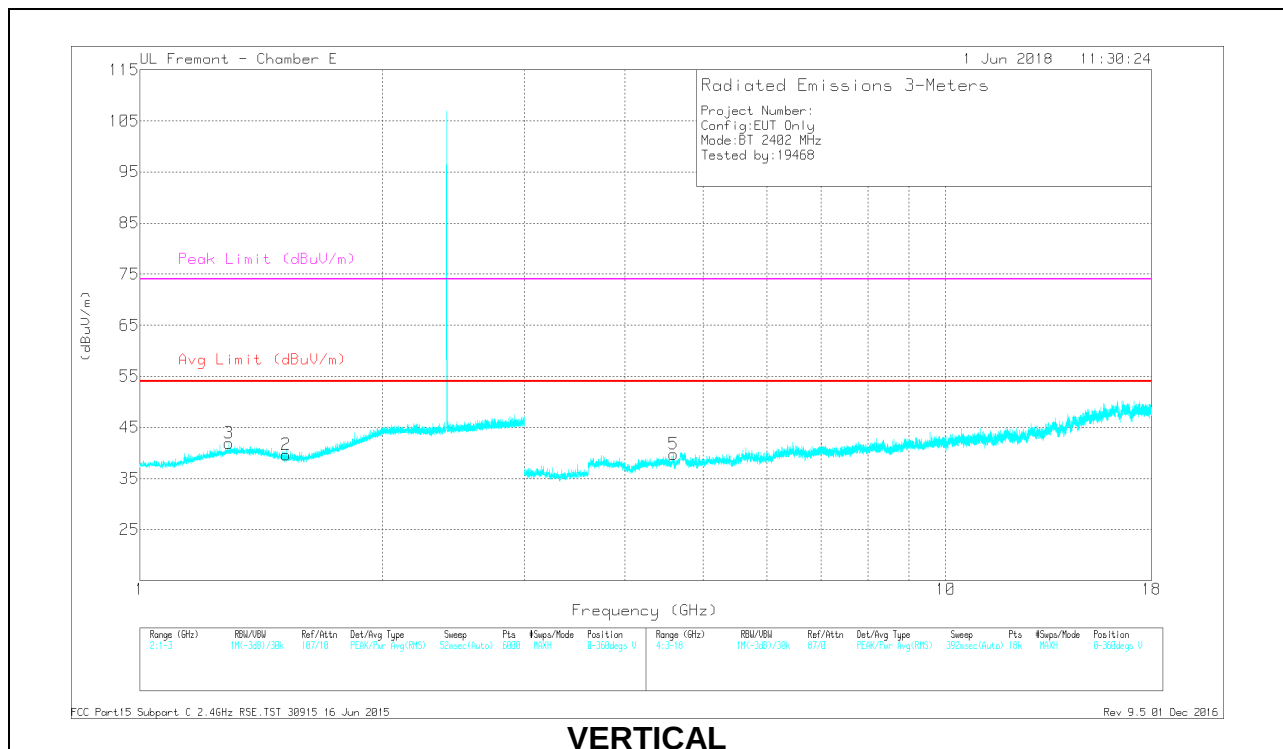
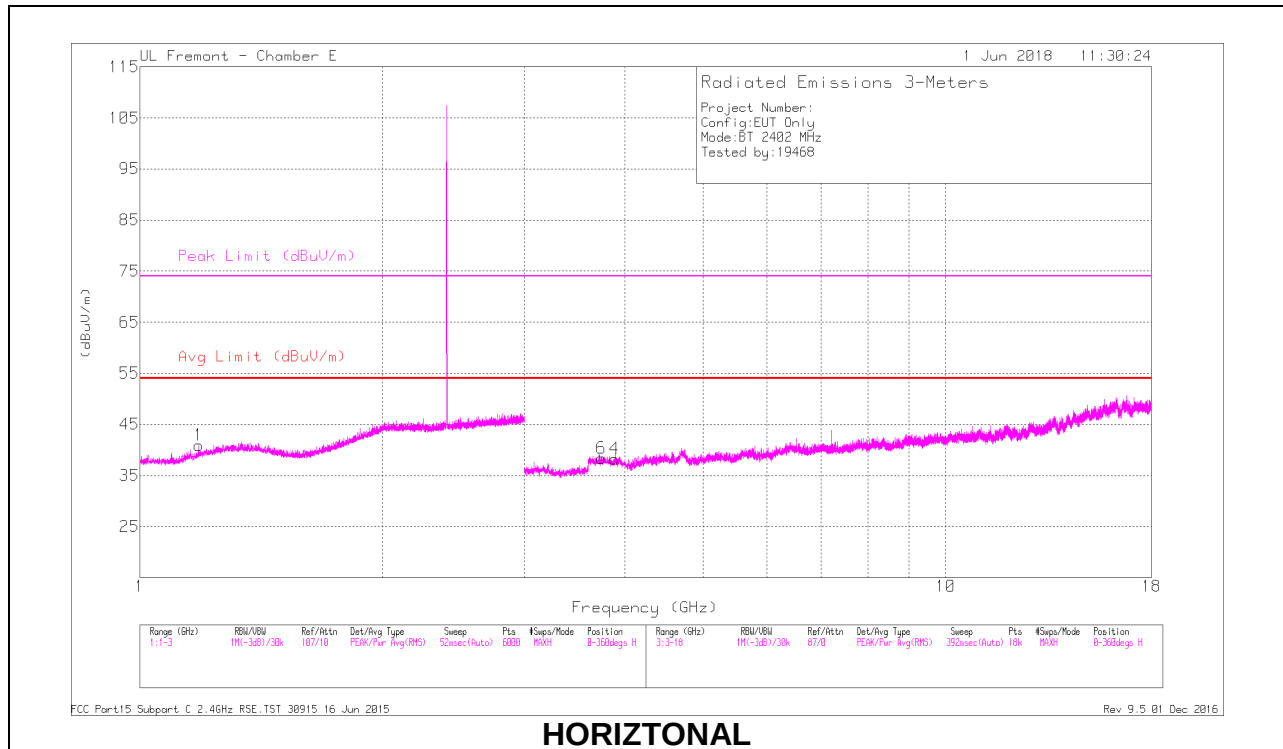
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

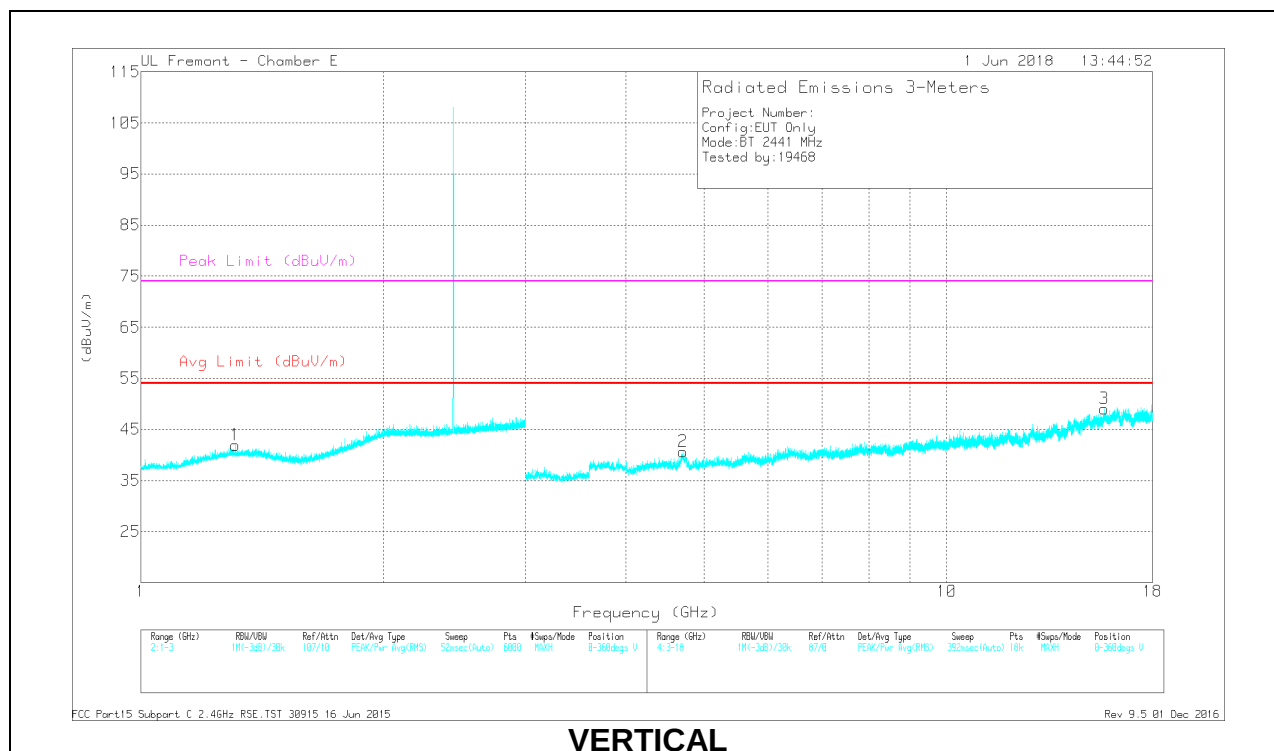
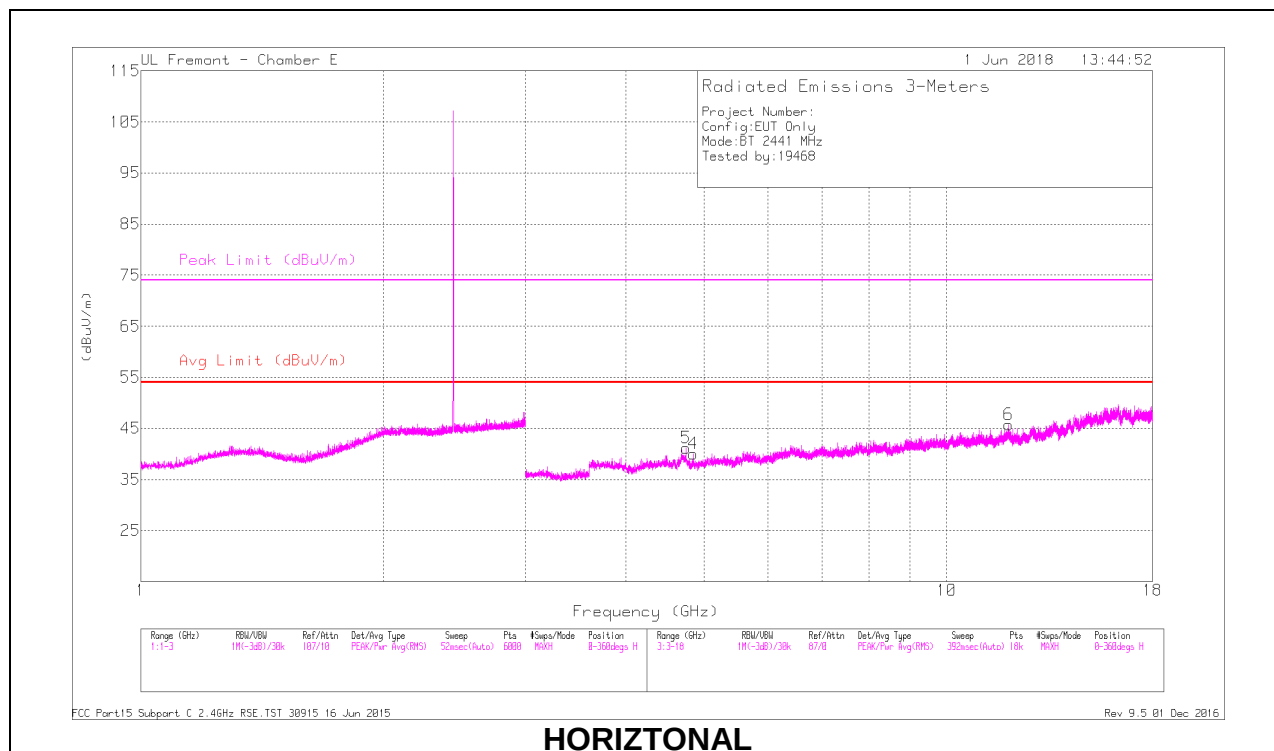
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.178	44.09	PKFH	27.6	-25.6	46.09	-	-	74	-27.91	240	318	H
	* 1.177	31.44	VA1T	27.6	-25.6	33.44	54	-20.56	-	-	240	318	H
2	* 1.516	43.6	PKFH	27.5	-24.7	46.4	-	-	74	-27.6	25	129	V
	* 1.515	30.7	VA1T	27.5	-24.7	33.5	54	-20.5	-	-	25	129	V
3	* 1.29	43.81	PKFH	28.8	-25.3	47.31	-	-	74	-26.69	25	200	V
	* 1.291	31.12	VA1T	28.8	-25.3	34.62	54	-19.38	-	-	25	200	V
4	* 3.884	41.66	PKFH	33.7	-29.8	45.56	-	-	74	-28.44	275	387	H
	* 3.891	28.78	VA1T	33.7	-29.6	32.88	54	-21.12	-	-	275	387	H
6	* 3.744	40.88	PKFH	33.6	-29.7	44.78	-	-	74	-29.22	106	118	H
	* 3.736	28.01	VA1T	33.6	-29.7	31.91	54	-22.09	-	-	106	118	H
5	* 4.592	41.46	PKFH	34.4	-29.4	46.46	-	-	74	-27.54	95	329	V
	* 4.59	28.4	VA1T	34.4	-29.4	33.4	54	-20.6	-	-	95	329	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

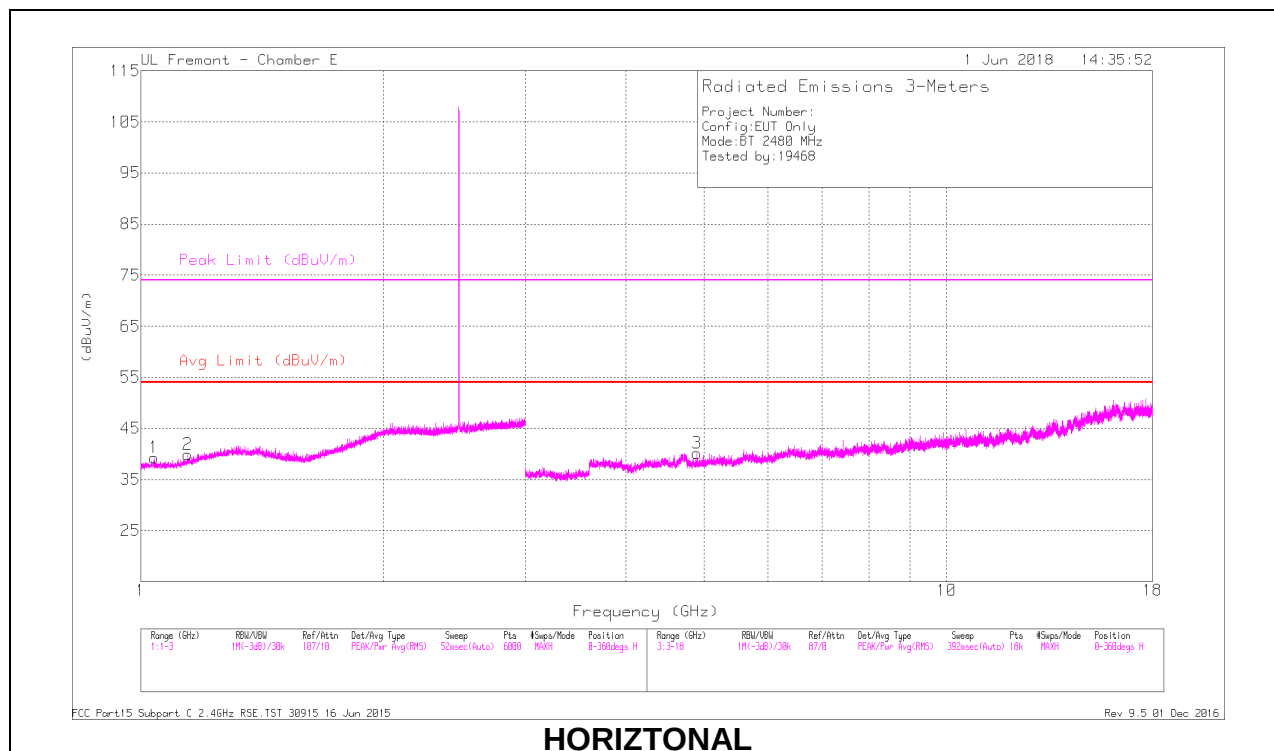
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.305	44	PKFH	28.9	-25.3	47.6	-	-	74	-26.4	155	284	V
	* 1.306	31.23	VA1T	28.9	-25.2	34.93	54	-19.07	-	-	155	284	V
4	* 4.854	39.43	PKFH	34.5	-29.6	44.33	-	-	74	-29.67	61	279	H
	* 4.855	26.83	VA1T	34.5	-29.7	31.63	54	-22.37	-	-	61	279	H
5	* 4.738	40.94	PKFH	34.4	-28.4	46.94	-	-	74	-27.06	19	200	H
	* 4.742	28.61	VA1T	34.4	-28.5	34.51	54	-19.49	-	-	19	200	H
6	* 11.917	34.54	PKFH	39.4	-22.1	51.84	-	-	74	-22.16	267	116	H
	* 11.925	20.63	VA1T	39.5	-22	38.13	54	-15.87	-	-	267	116	H
2	* 4.711	40.86	PKFH	34.4	-28.6	46.66	-	-	74	-27.34	221	169	V
	* 4.7	28.62	VA1T	34.4	-28.9	34.12	54	-19.88	-	-	221	169	V
3	* 15.691	34.43	PKFH	41.6	-21.4	54.63	-	-	74	-19.37	219	115	V
	* 15.684	21.88	VA1T	41.5	-21.3	42.08	54	-11.92	-	-	219	115	V

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

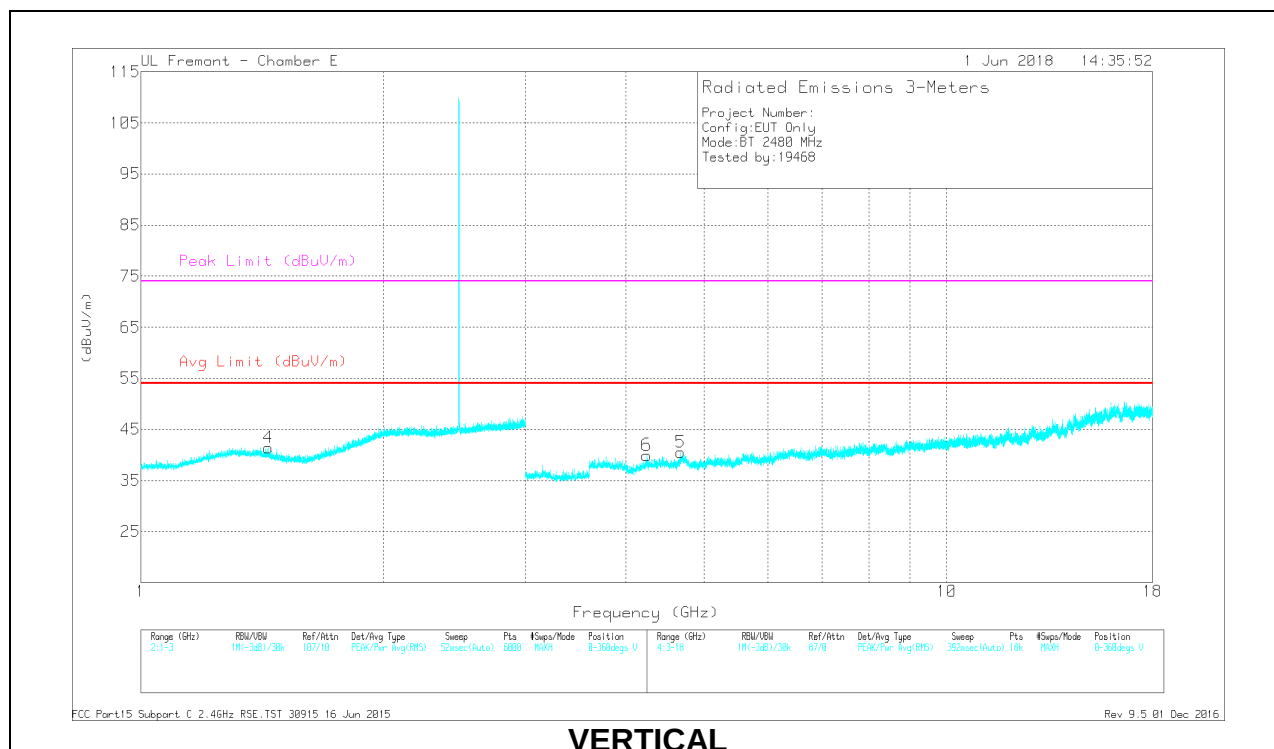
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZTONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/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	* 1.033	44.93	PKFH	26.4	-25.9	45.43	-	-	74	-28.57	294	227	H
	* 1.034	31.86	VA1T	26.4	-25.9	32.36	54	-21.64	-	-	294	227	H
2	* 1.147	44.16	PKFH	27.1	-25.6	45.66	-	-	74	-28.34	340	201	H
	* 1.142	31.64	VA1T	27	-25.6	33.04	54	-20.96	-	-	340	201	H
4	* 1.438	43.64	PKFH	28.3	-24.9	47.04	-	-	74	-26.96	341	330	V
	* 1.439	30.91	VA1T	28.3	-24.9	34.31	54	-19.69	-	-	341	330	V
3	* 4.903	40.68	PKFH	34.5	-29.9	45.28	-	-	74	-28.72	274	384	H
	* 4.903	27.99	VA1T	34.5	-29.9	32.59	54	-21.41	-	-	274	384	H
5	* 4.681	41.51	PKFH	34.4	-29.2	46.71	-	-	74	-27.29	284	330	V
	* 4.686	28.68	VA1T	34.4	-29.1	33.98	54	-20.02	-	-	284	330	V
6	* 4.243	40.75	PKFH	33.8	-28.5	46.05	-	-	74	-27.95	8	274	V
	* 4.242	27.42	VA1T	33.8	-28.6	32.62	54	-21.38	-	-	8	274	V

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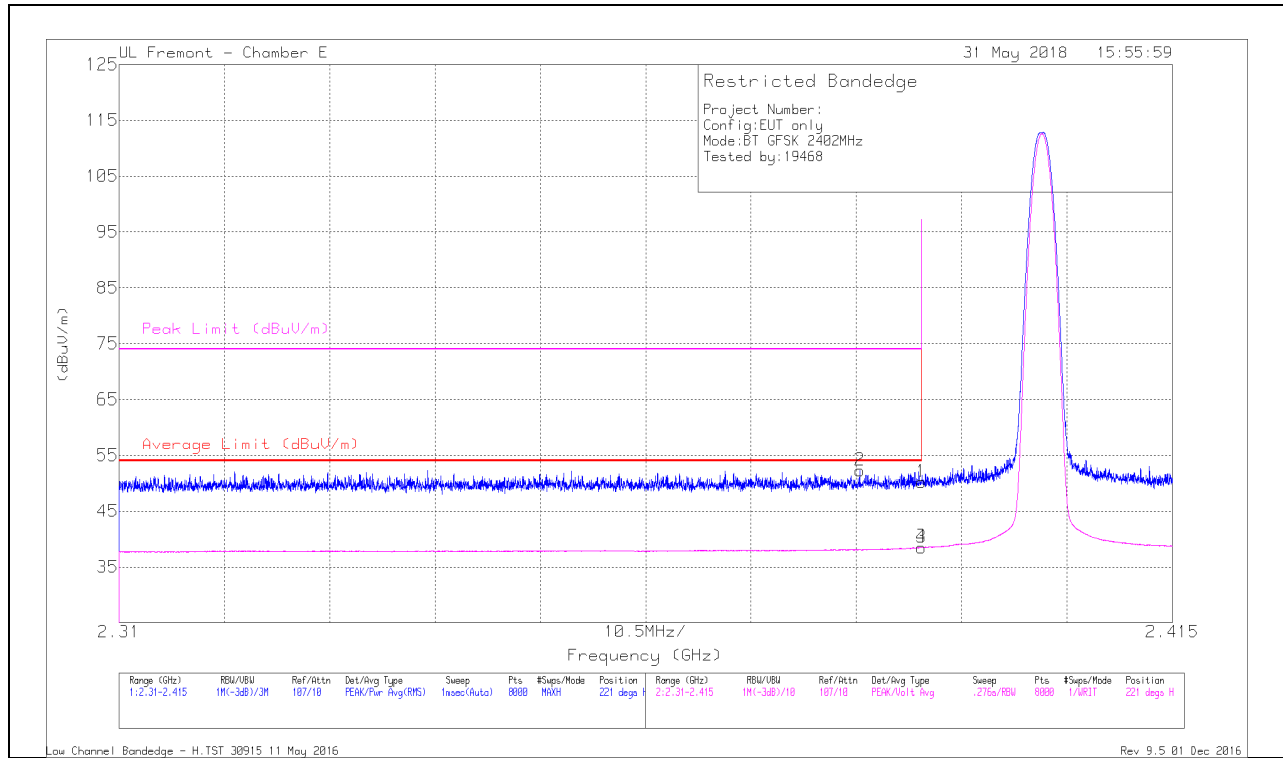
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



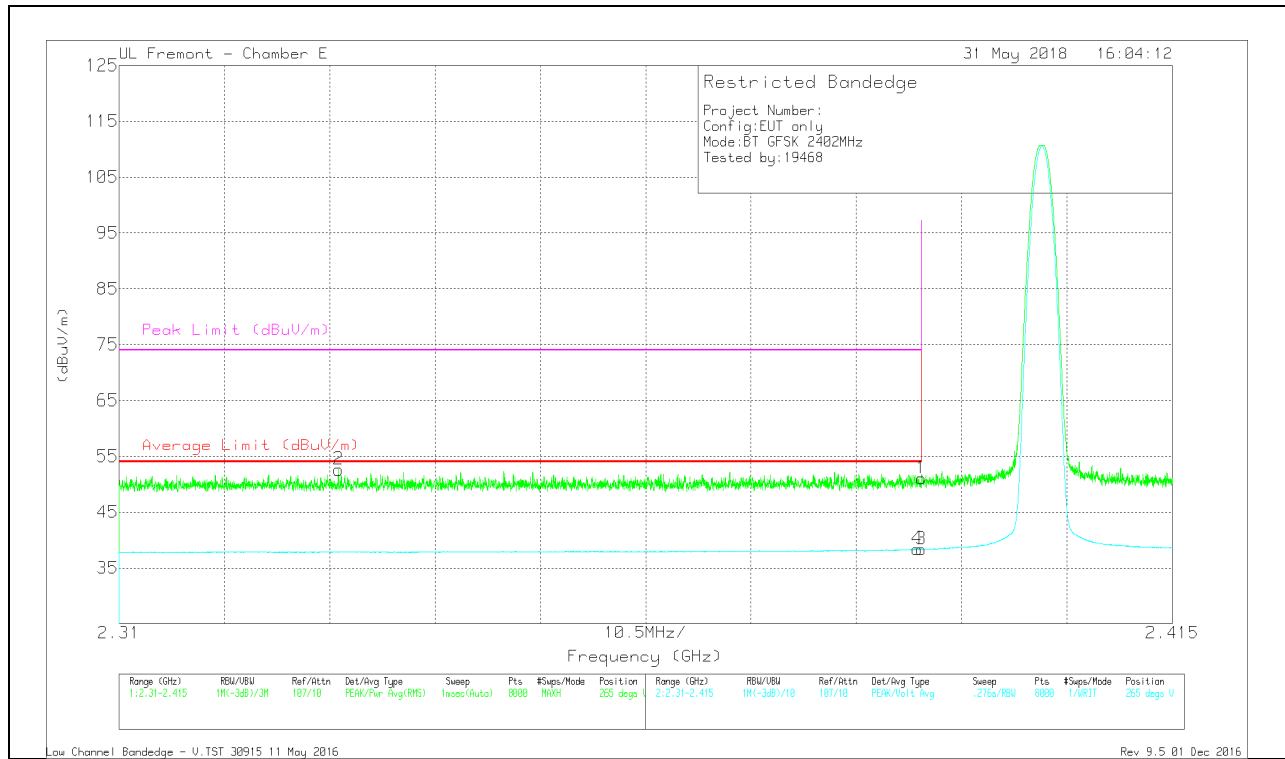
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.8	Pk	32	-22.6	50.2	-	-	74	-23.8	221	153	H
2	* 2.384	42.99	Pk	31.9	-22.6	52.29	-	-	74	-21.71	221	153	H
3	* 2.39	29.09	VA1T	32	-22.6	38.49	54	-15.51	-	-	221	153	H
4	* 2.39	29.08	VA1T	32	-22.6	38.48	54	-15.52	-	-	221	153	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 T346 (dBm)	Ampl/Cbl/Filtr/Pat (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	41.65	Pk	32	-22.6	51.05	-	-	74	-22.95	265	114	V
2	* 2.332	43.51	Pk	31.8	-22.7	52.61	-	-	74	-21.39	265	114	V
3	* 2.39	28.93	VA1T	32	-22.6	38.33	54	-15.67	-	-	265	114	V
4	* 2.39	28.98	VA1T	32	-22.6	38.38	54	-15.62	-	-	265	114	V

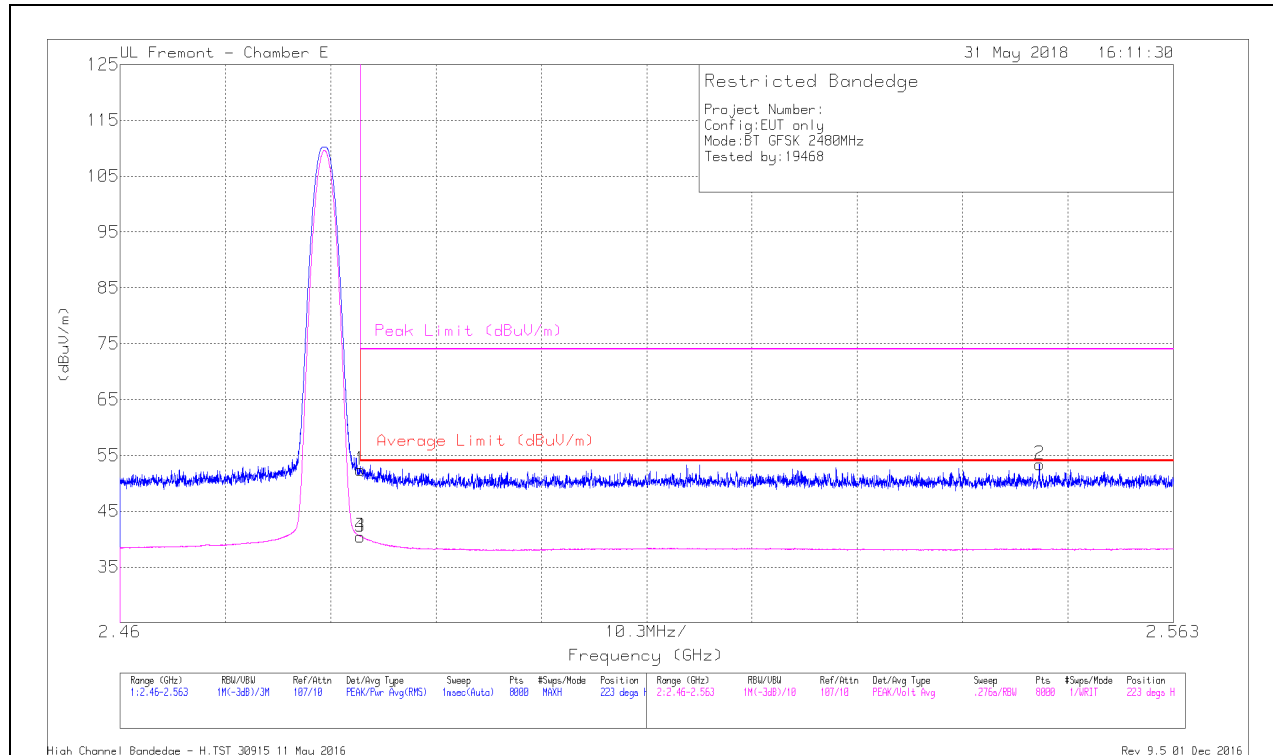
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



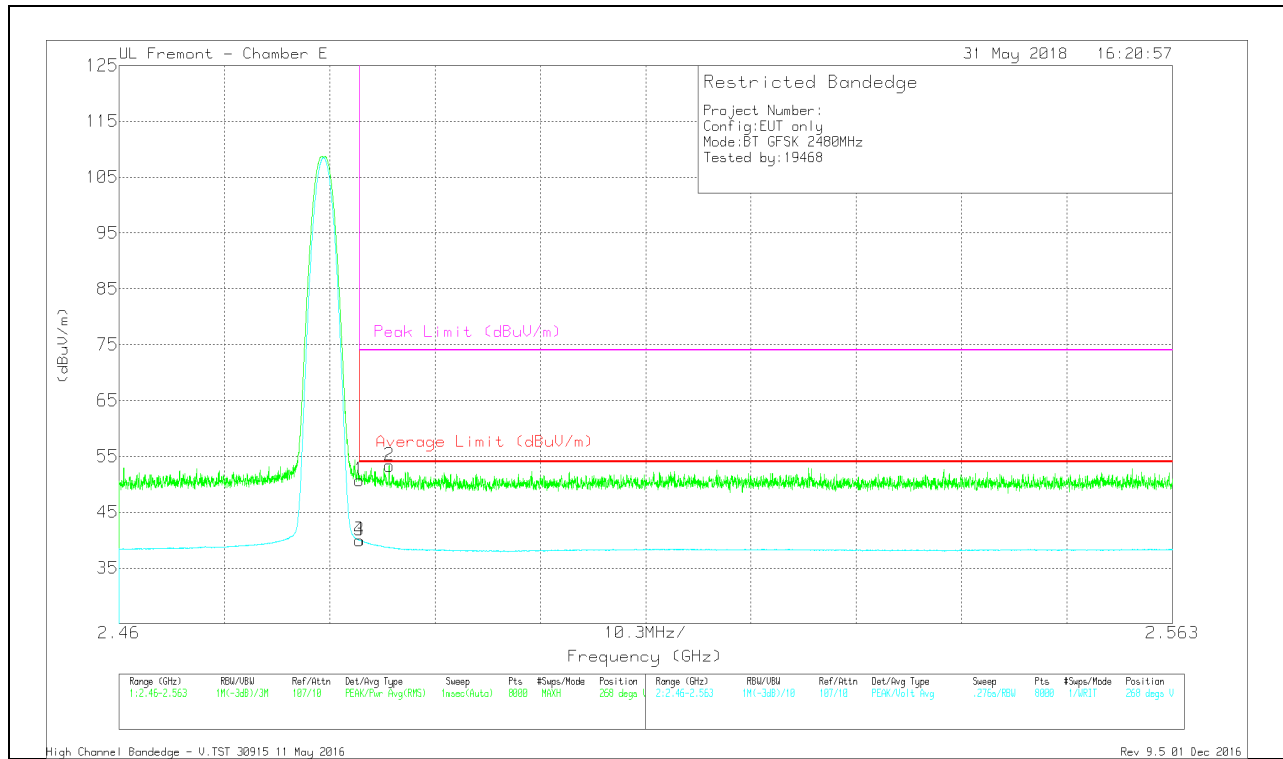
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.64	Pk	32.1	-22.3	52.44	-	-	74	-21.56	223	166	H
3	* 2.484	30.67	VA1T	32.1	-22.3	40.47	54	-13.53	-	-	223	166	H
4	* 2.484	30.69	VA1T	32.1	-22.3	40.49	54	-13.51	-	-	223	166	H
2	2.55	43.63	Pk	32.1	-22.3	53.43	-	-	74	-20.57	223	166	H

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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 T346 (dBm)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.94	Pk	32.1	-22.3	50.74	-	-	74	-23.26	268	111	V
2	* 2.486	43.64	Pk	32.1	-22.4	53.34	-	-	74	-20.66	268	111	V
3	* 2.484	30.17	VA1T	32.1	-22.3	39.97	54	-14.03	-	-	268	111	V
4	* 2.484	30.18	VA1T	32.1	-22.3	39.98	54	-14.02	-	-	268	111	V

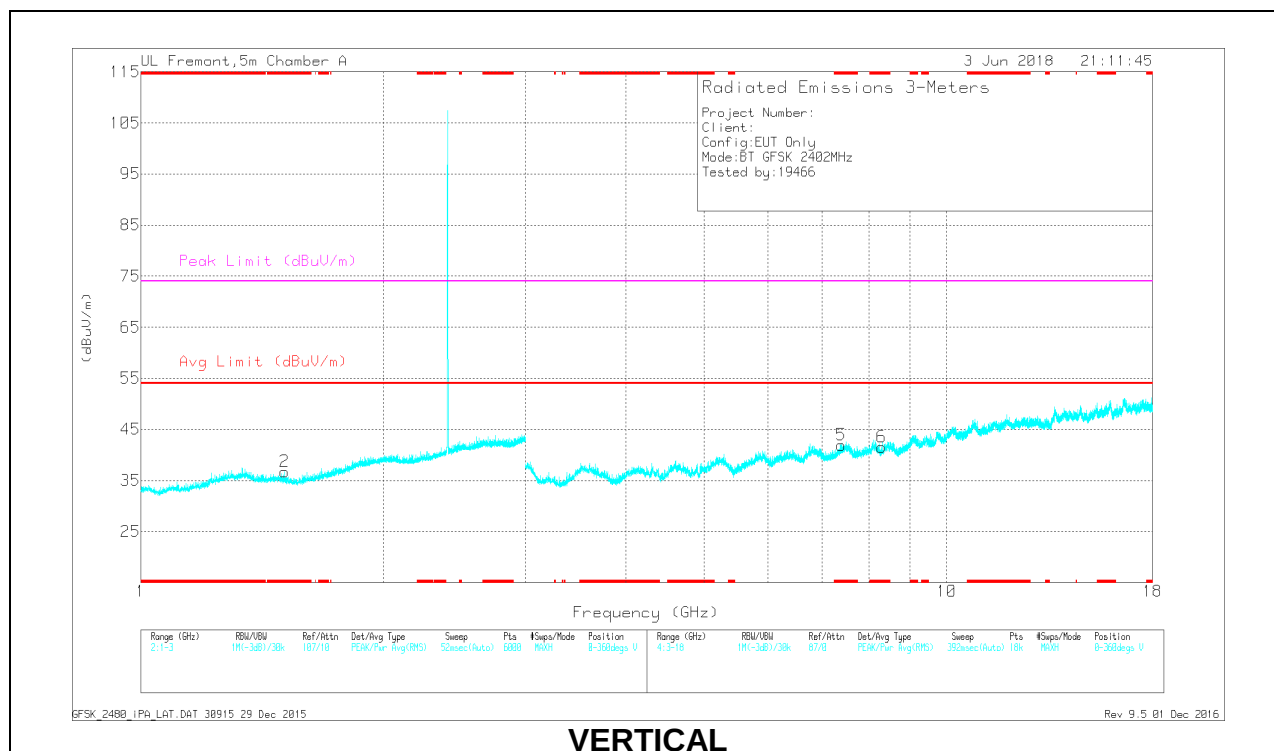
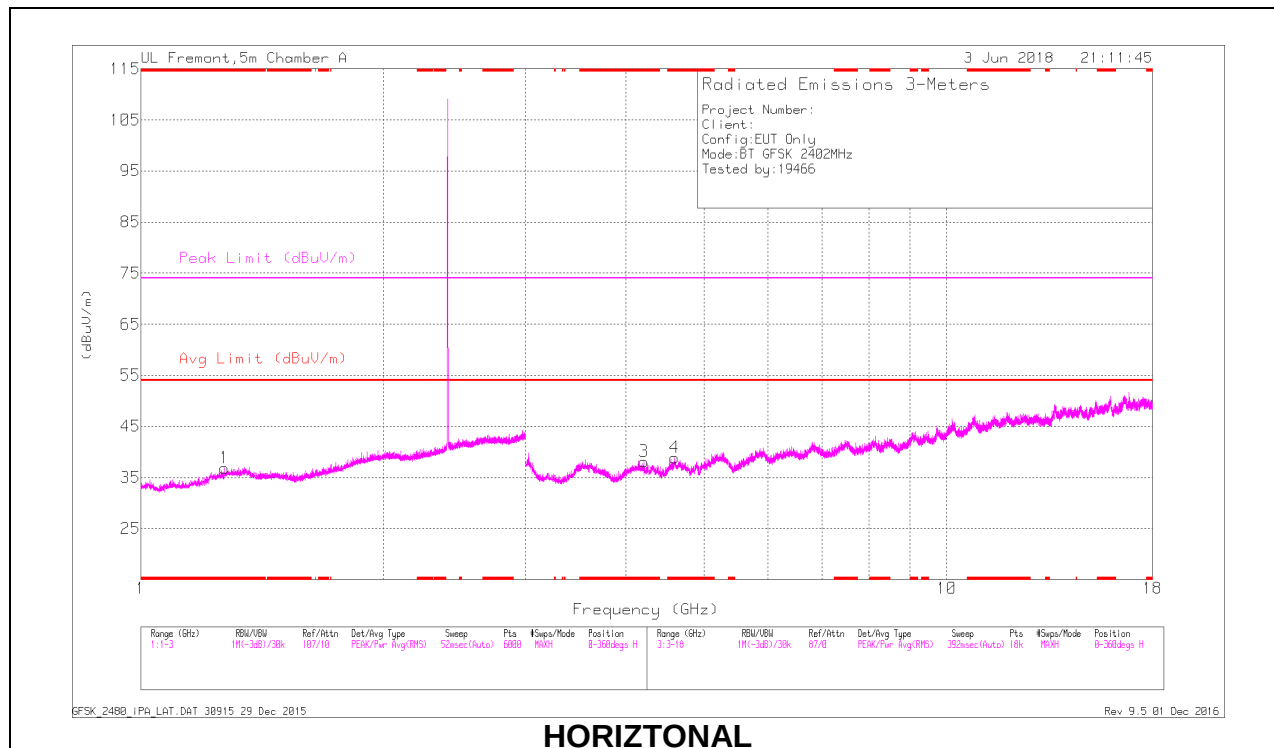
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Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

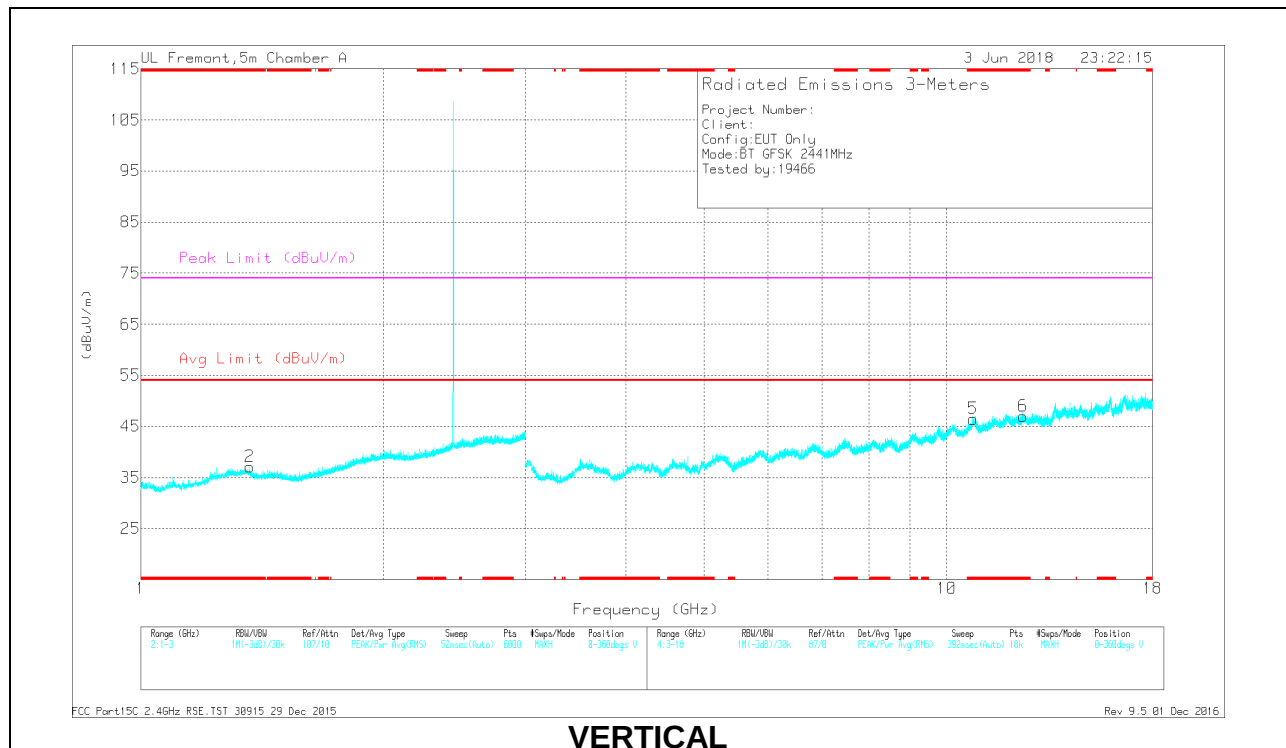
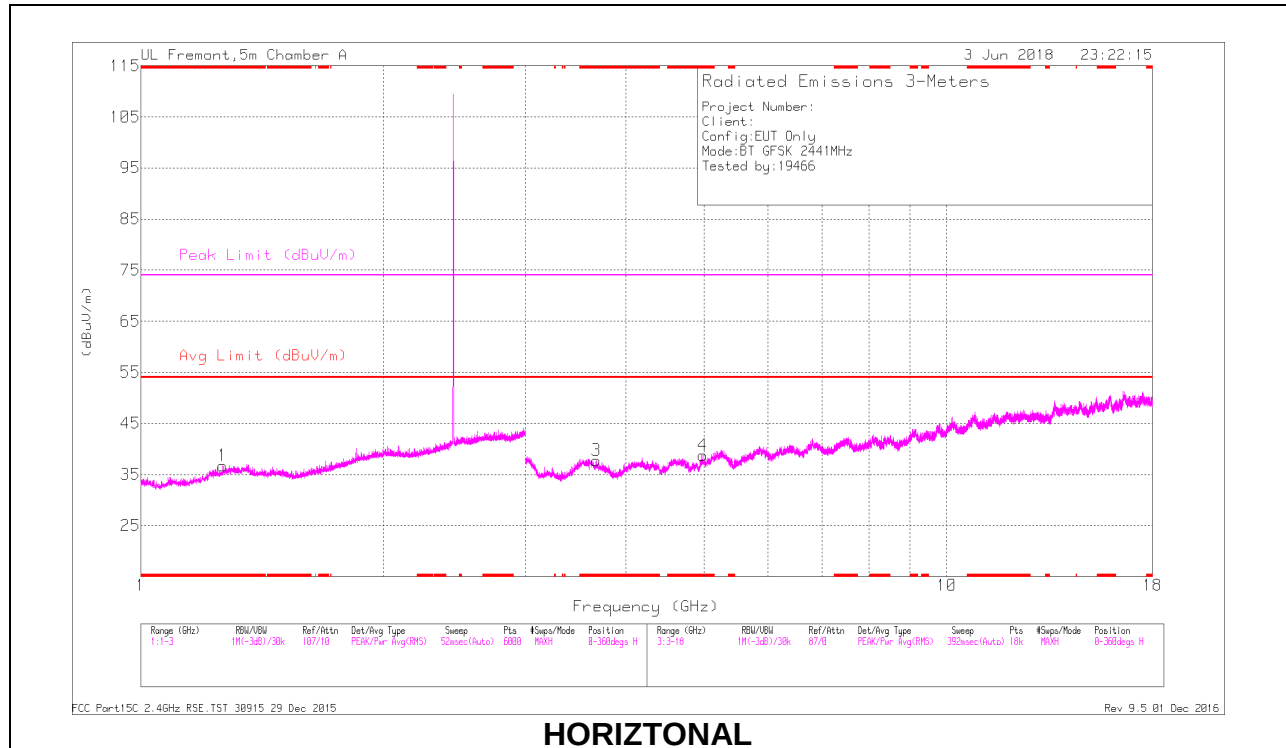
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.267	36.48	PKFH	29.2	-23.7	41.98	-	-	74	-32.02	126	335	H
	* 1.271	24.12	VA1T	29.3	-23.6	29.82	54	-24.18	-	-	126	335	H
2	* 1.507	36.65	PKFH	28.3	-23.4	41.55	-	-	74	-32.45	356	399	V
	* 1.509	24.39	VA1T	28.3	-23.4	29.29	54	-24.71	-	-	356	399	V
3	* 4.208	36.88	PKFH	33.4	-27.2	43.08	-	-	74	-30.92	225	178	H
	* 4.207	24.99	VA1T	33.4	-27.2	31.19	54	-22.81	-	-	225	178	H
4	* 4.598	37.44	PKFH	34.1	-26.2	45.34	-	-	74	-28.66	13	225	H
	* 4.599	24.72	VA1T	34.1	-26.2	32.62	54	-21.38	-	-	13	225	H
5	* 7.392	33.56	PKFH	35.6	-21.7	47.46	-	-	74	-26.54	326	190	V
	* 7.392	21.55	VA1T	35.6	-21.7	35.45	54	-18.55	-	-	326	190	V
6	* 8.302	33.62	PKFH	35.9	-22.4	47.12	-	-	74	-26.88	163	166	V
	* 8.304	21.87	VA1T	35.8	-22.3	35.37	54	-18.63	-	-	163	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

MID CHANNEL RESULTS



RADIATED EMISSIONS

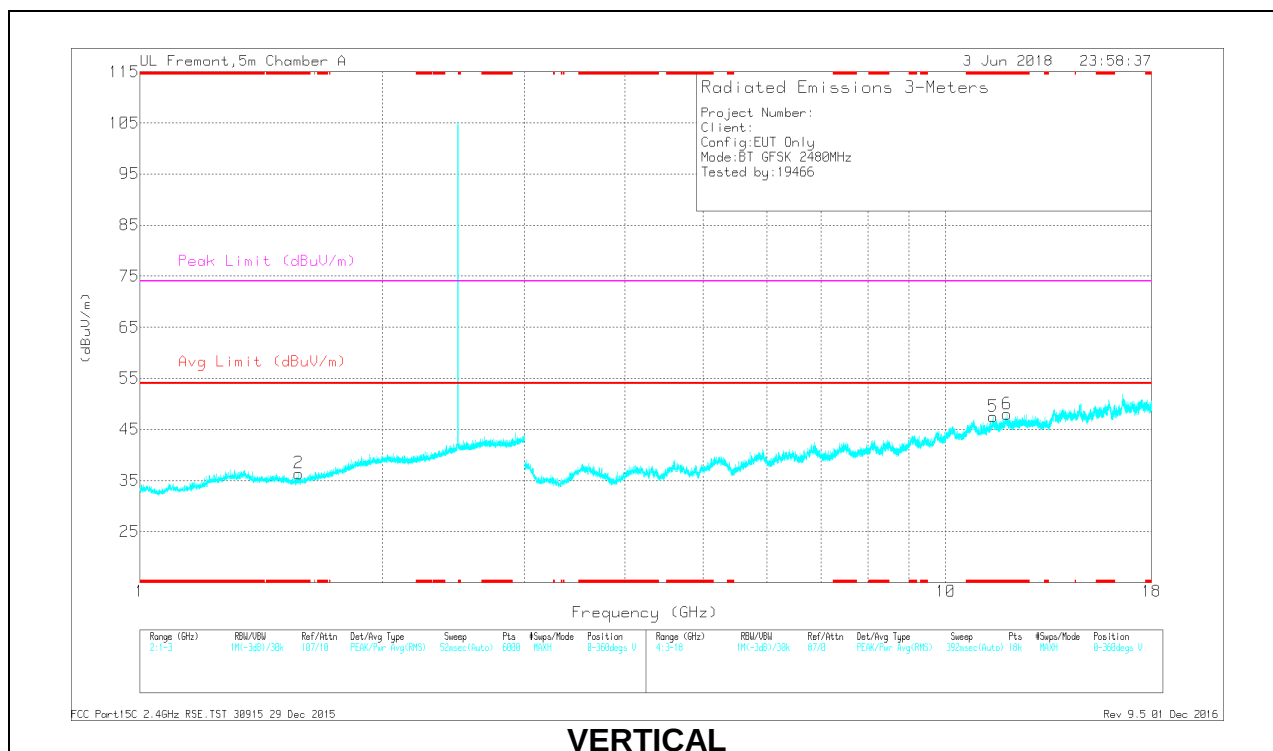
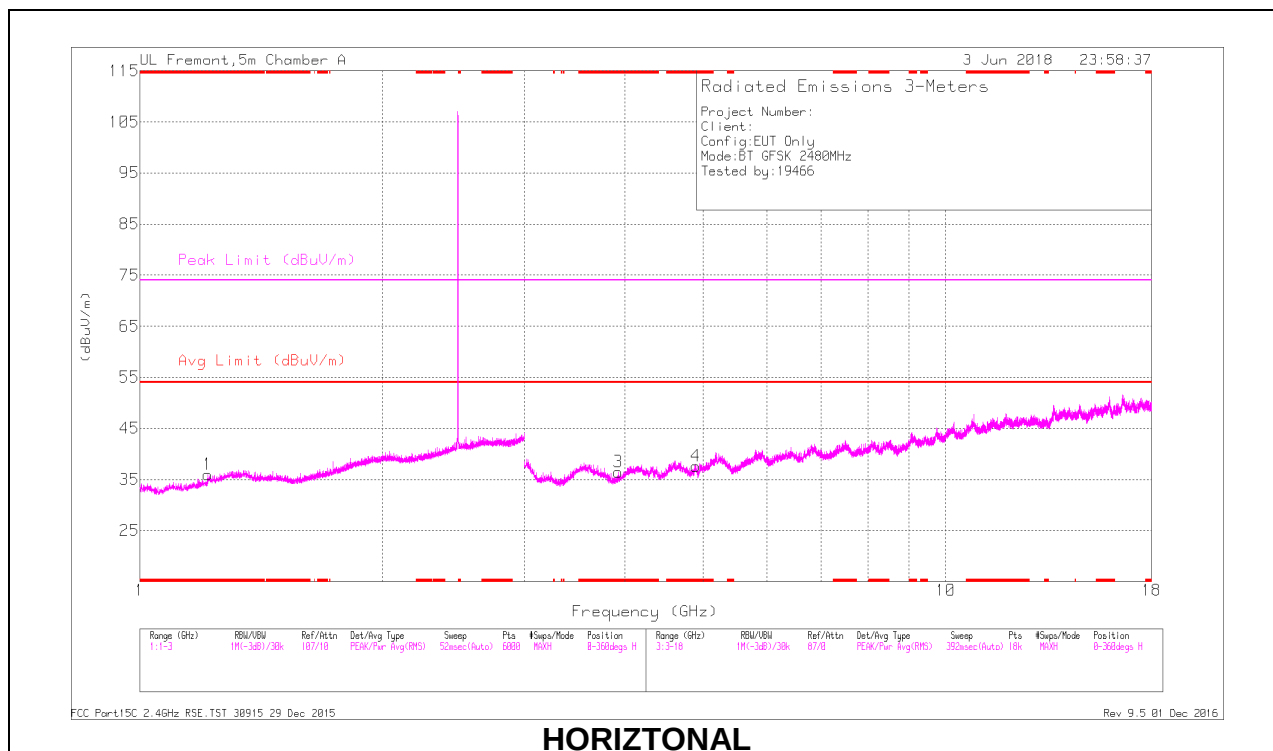
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.264	35.76	PKFH	29.2	-23.7	41.26	-	-	74	-32.74	251	268	H
	* 1.264	24.07	VA1T	29.2	-23.8	29.47	54	-24.53	-	-	251	268	H
2	* 1.365	36.81	PKFH	29.2	-23.5	42.51	-	-	74	-31.49	98	234	V
	* 1.363	24.36	VA1T	29.3	-23.5	30.16	54	-23.84	-	-	98	234	V
3	* 3.671	37	PKFH	33	-27.7	42.3	-	-	74	-31.7	228	161	H
	* 3.674	25.42	VA1T	33	-27.7	30.72	54	-23.28	-	-	228	161	H
4	* 4.979	38.68	PKFH	34.3	-27.6	45.38	-	-	74	-28.62	202	190	H
	* 4.98	25.71	VA1T	34.3	-27.6	32.41	54	-21.59	-	-	202	190	H
5	* 10.777	33.19	PKFH	37.8	-17.8	53.19	-	-	74	-20.81	148	190	V
	* 10.778	20.62	VA1T	37.8	-17.8	40.62	54	-13.38	-	-	148	190	V
6	* 12.437	32.95	PKFH	39	-18.5	53.45	-	-	74	-20.55	120	196	V
	* 12.439	20.61	VA1T	39	-18.6	41.01	54	-12.99	-	-	120	196	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 T862 (dB/m)	Amp/Cbl/ Filt/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	* 1.215	36.23	PKFH	28.5	-23.7	41.03	-	-	74	-32.97	129	137	H
	* 1.216	24.25	VA1T	28.5	-23.6	29.15	54	-24.85	-	-	129	137	H
2	* 1.573	36.15	PKFH	28	-23.3	40.85	-	-	74	-33.15	228	297	V
	* 1.574	24.43	VA1T	28	-23.3	29.13	54	-24.87	-	-	228	297	V
3	* 3.923	37.64	PKFH	33.2	-28.6	42.24	-	-	74	-31.76	242	196	H
	* 3.922	25.63	VA1T	33.2	-28.6	30.23	54	-23.77	-	-	242	196	H
4	* 4.901	37.19	PKFH	34.1	-26.7	44.59	-	-	74	-29.41	251	275	H
	* 4.899	24.56	VA1T	34.1	-26.7	31.96	54	-22.04	-	-	251	275	H
5	* 11.45	32.52	PKFH	38.2	-17.9	52.82	-	-	74	-21.18	295	247	V
	* 11.448	20.41	VA1T	38.2	-17.9	40.71	54	-13.29	-	-	295	247	V
6	* 11.911	32.42	PKFH	38.8	-18.2	53.02	-	-	74	-20.98	358	258	V
	* 11.911	20.33	VA1T	38.8	-18.2	40.93	54	-13.07	-	-	358	258	V

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

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

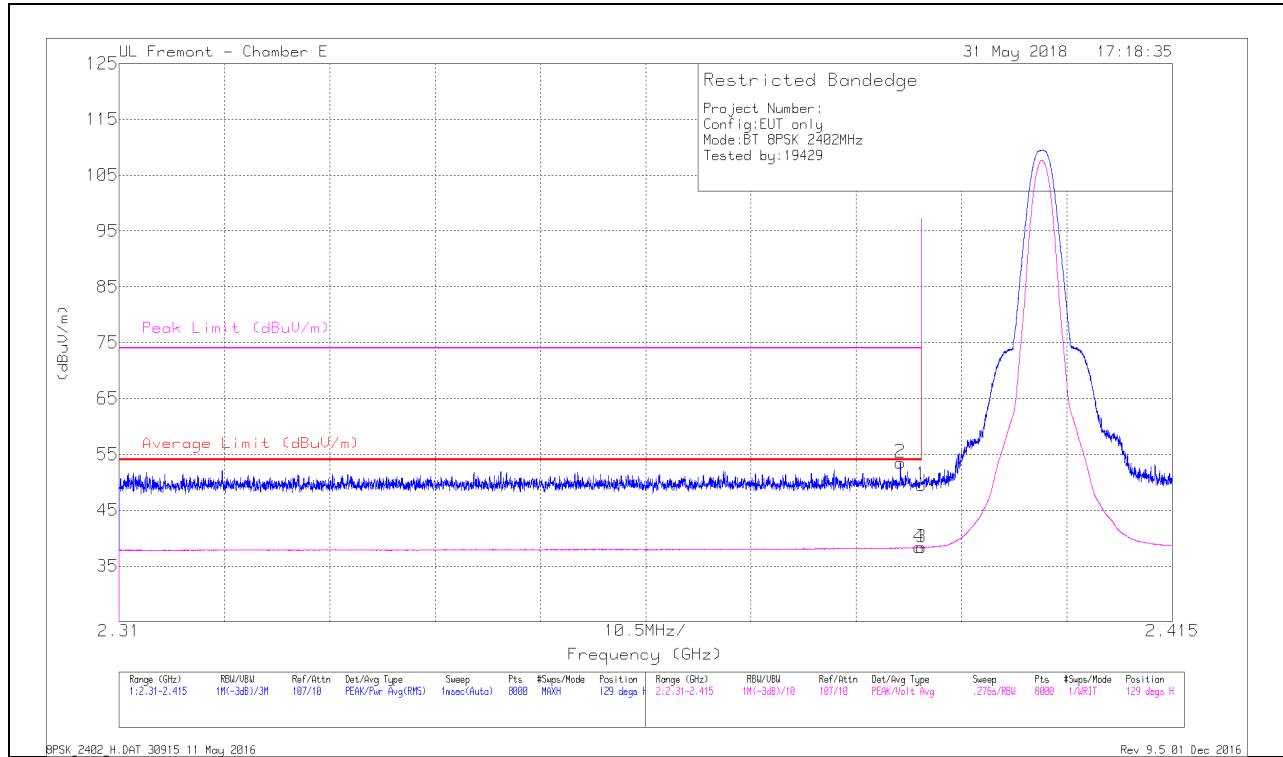
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.2. HIGH POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



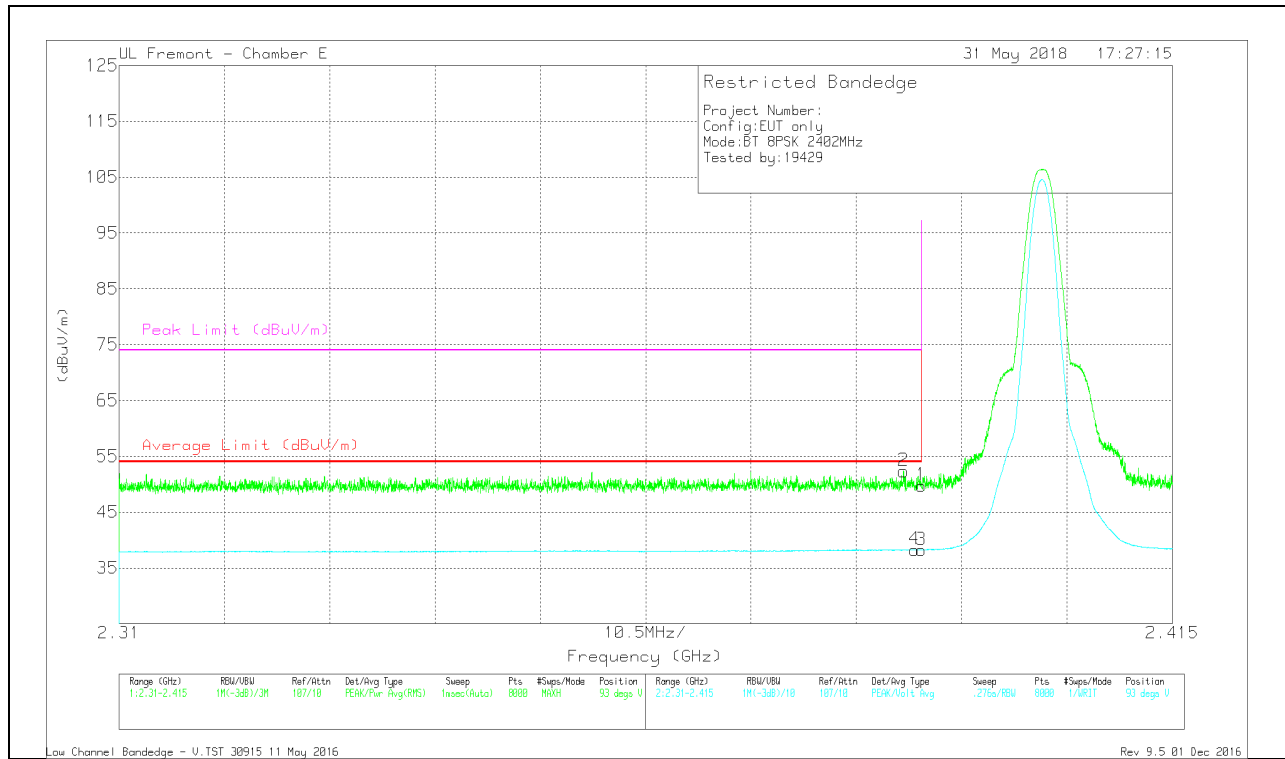
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.15	Pk	32	-22.6	49.55	-	-	74	-24.45	129	102	H
2	* 2.388	44.25	Pk	31.9	-22.6	53.55	-	-	74	-20.45	129	102	H
3	* 2.39	28.92	VA1T	32	-22.6	38.32	54	-15.68	-	-	129	101	H
4	* 2.39	28.95	VA1T	32	-22.6	38.35	54	-15.65	-	-	129	101	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 T346 (dBm)	Ampl/Cbl/Filtr/Pat (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	40.38	Pk	32	-22.6	49.78	-	-	74	-24.22	93	306	V
2	* 2.388	43.06	Pk	31.9	-22.6	52.36	-	-	74	-21.64	93	306	V
3	* 2.39	28.83	VA1T	32	-22.6	38.23	54	-15.77	-	-	93	306	V
4	* 2.389	28.89	VA1T	32	-22.6	38.29	54	-15.71	-	-	93	306	V

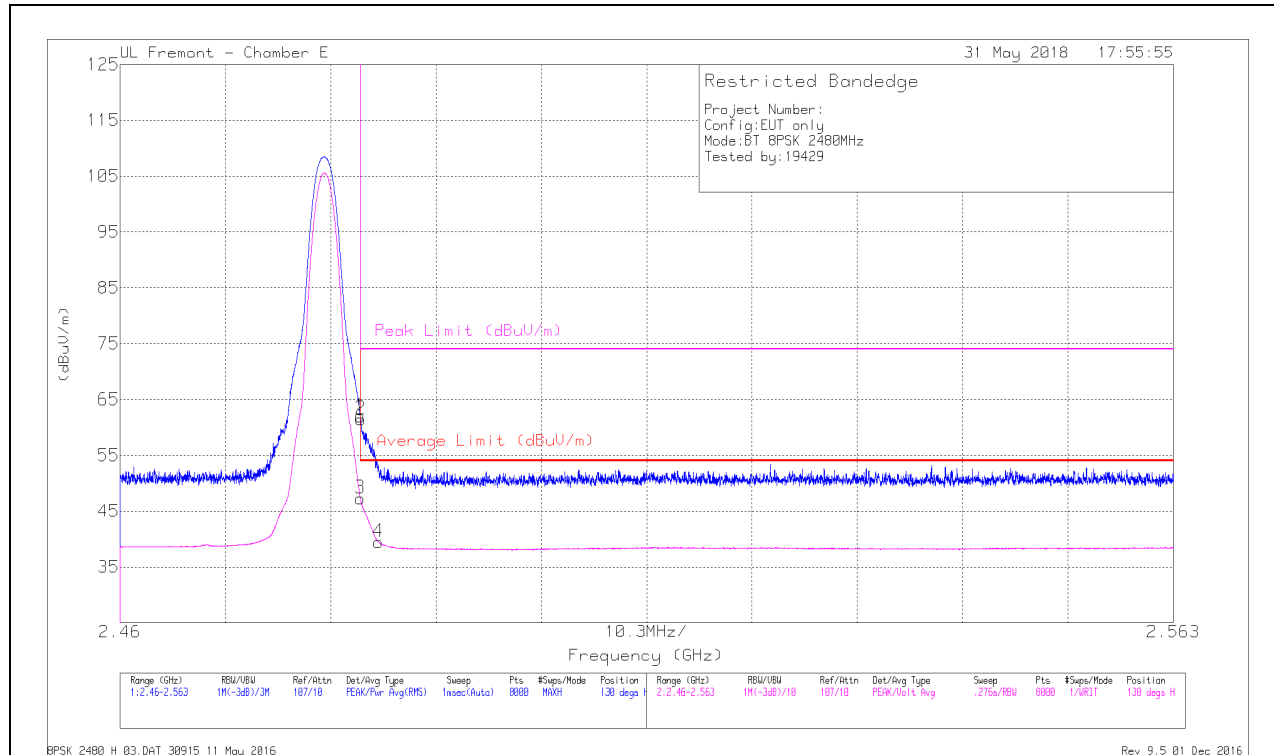
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



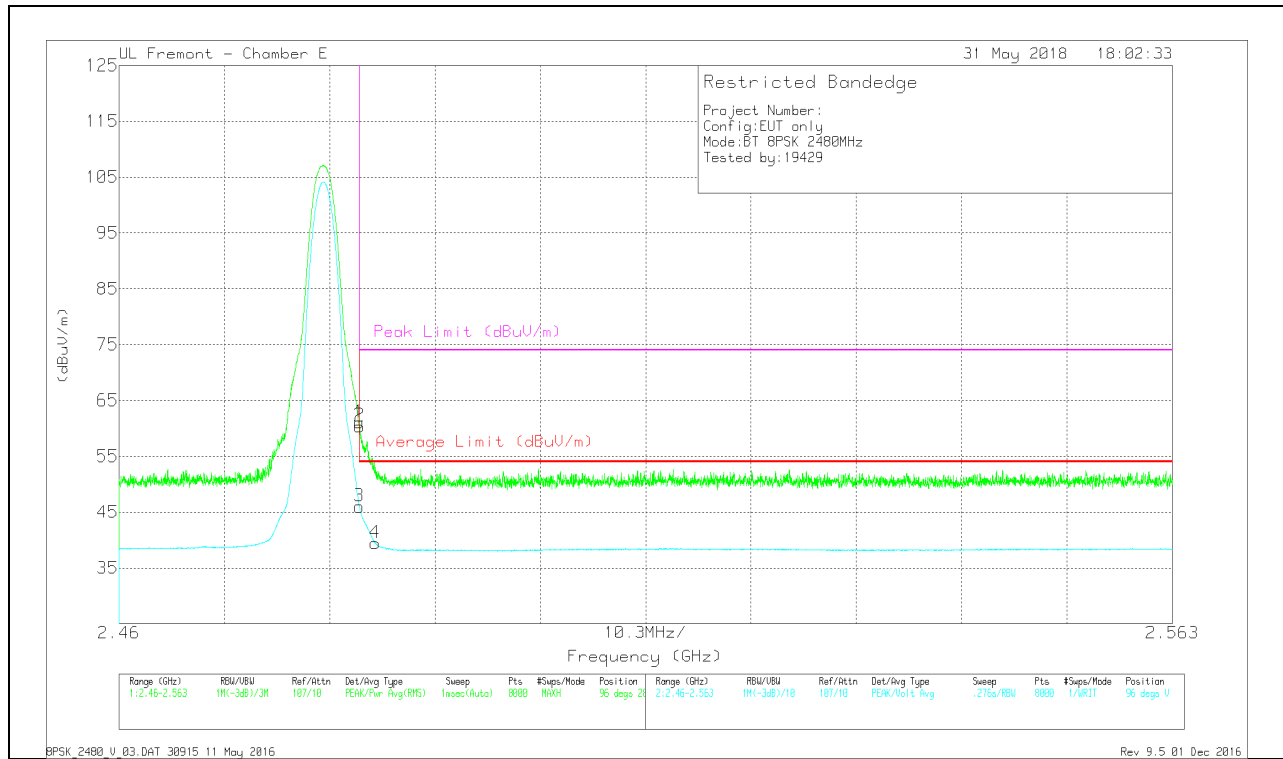
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.21	Pk	32.1	-22.3	62.01	-	-	74	-11.99	130	126	H
2	* 2.484	51.68	Pk	32.1	-22.3	61.48	-	-	74	-12.52	130	126	H
3	* 2.484	37.52	VA1T	32.1	-22.3	47.32	54	-6.68	-	-	130	126	H
4	* 2.485	29.78	VA1T	32.1	-22.4	39.48	54	-14.52	-	-	130	126	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 T346 (dBm)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.25	Pk	32.1	-22.3	61.05	-	-	74	-12.95	96	288	V
2	* 2.484	50.59	Pk	32.1	-22.3	60.39	-	-	74	-13.61	96	288	V
3	* 2.484	36.21	VA1T	32.1	-22.3	46.01	54	-7.99	-	-	96	288	V
4	* 2.485	29.75	VA1T	32.1	-22.4	39.45	54	-14.55	-	-	96	288	V

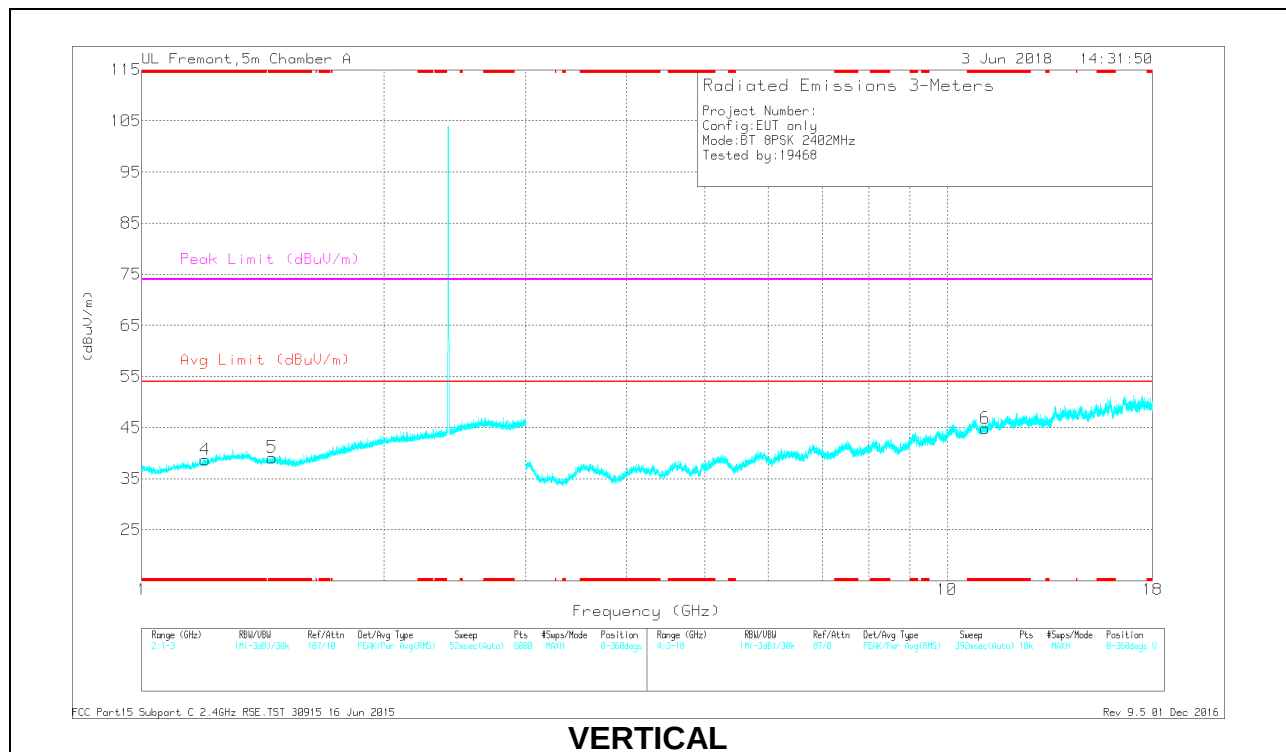
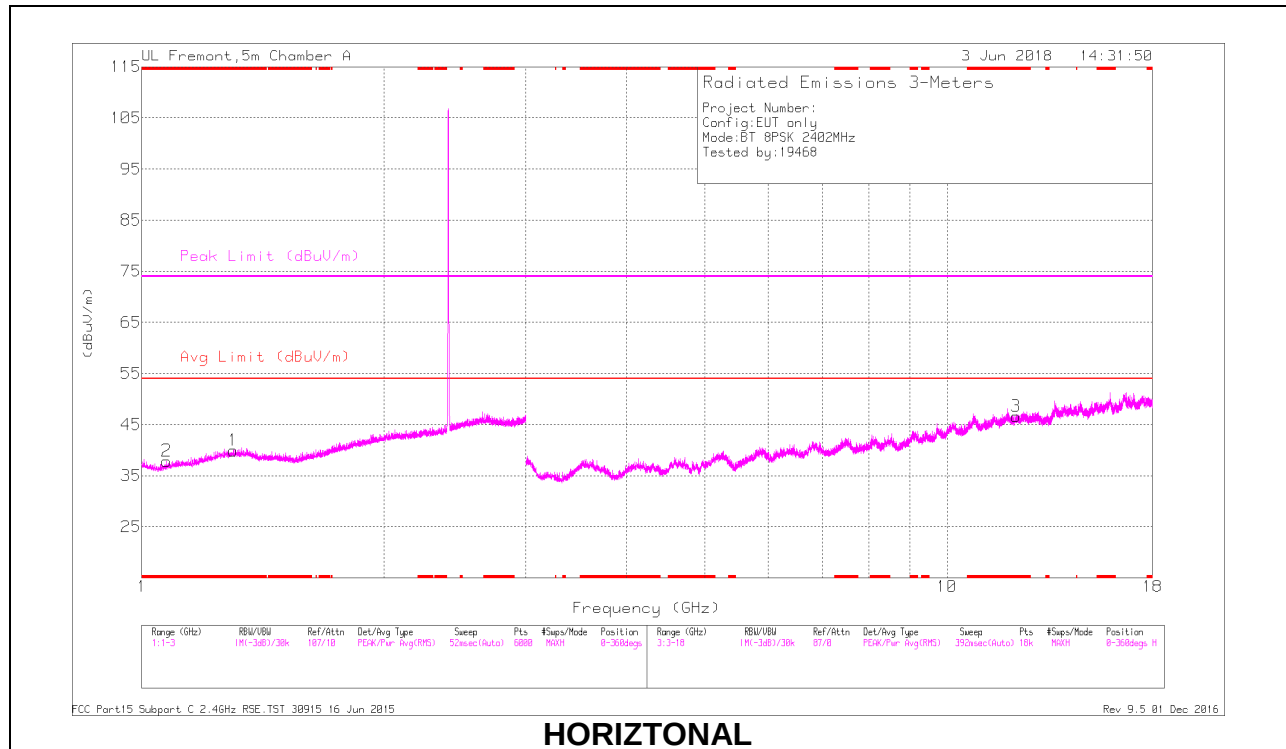
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

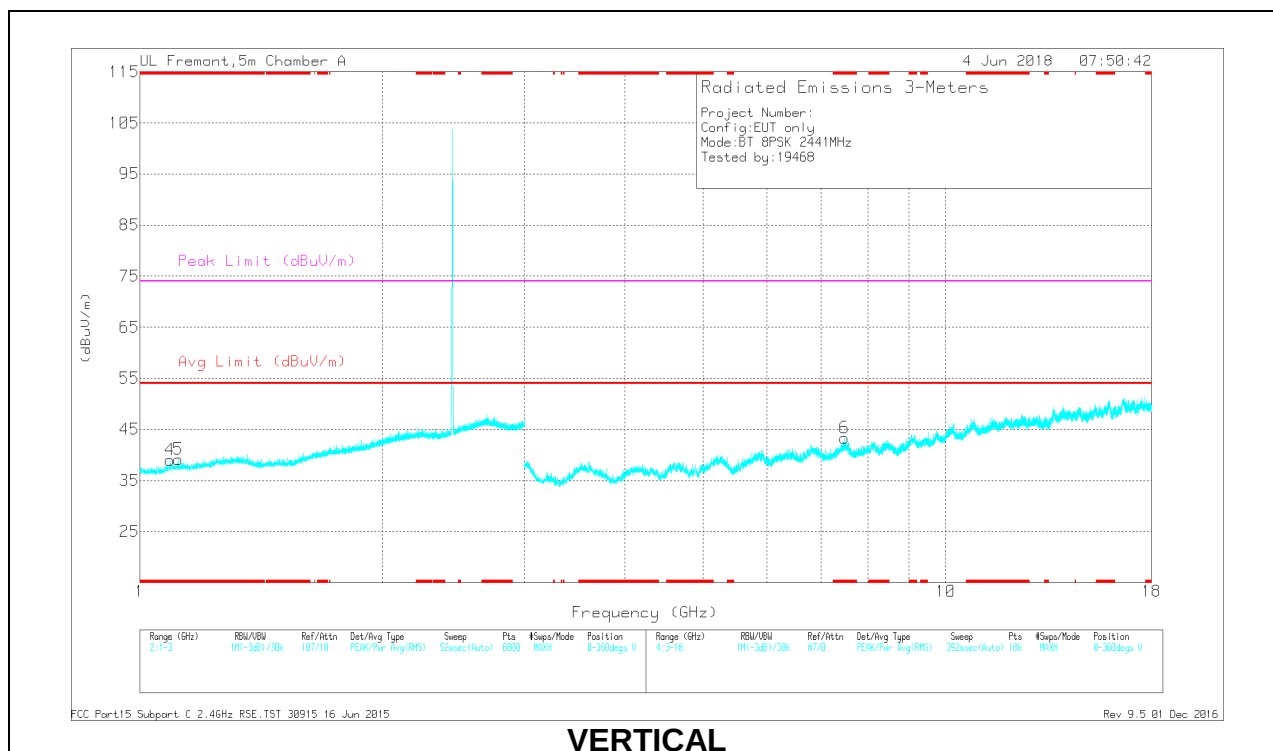
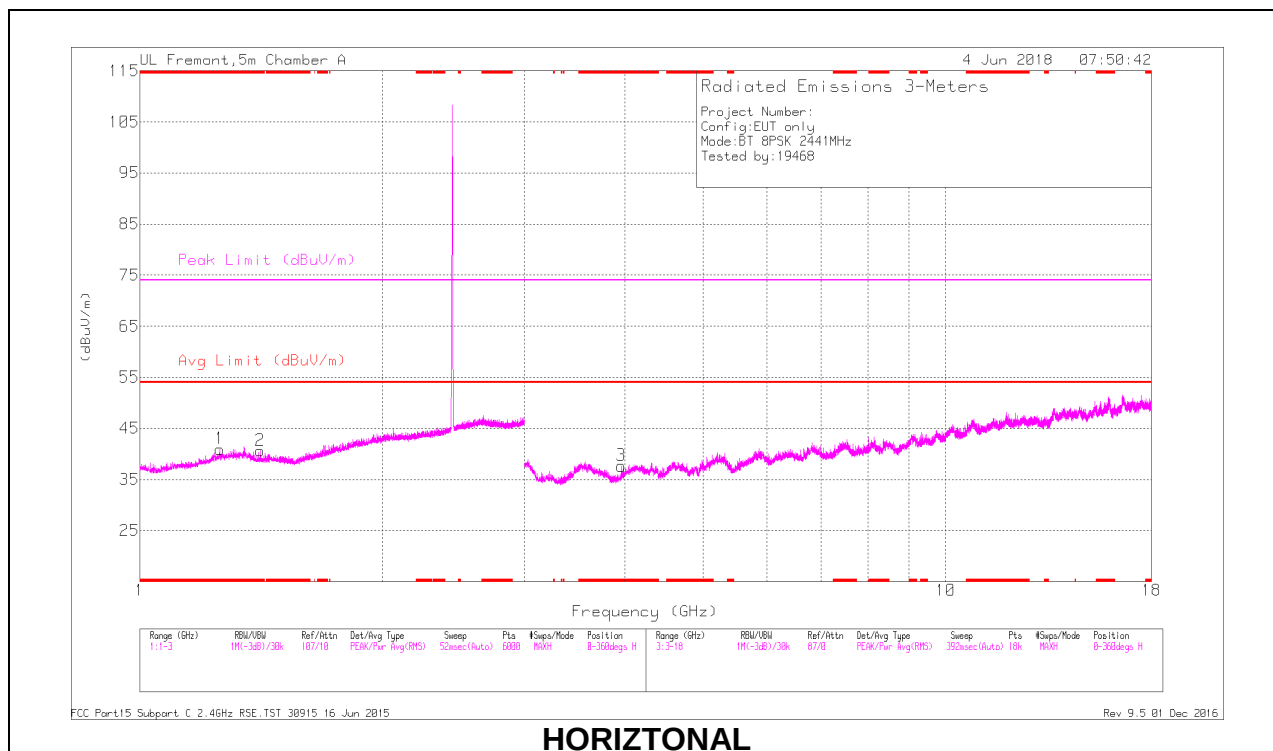
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 1.449	40.74	PKFH	28.8	-24.2	45.34	-	-	74	-28.66	115	197	H
	* 1.451	28.53	VA1T	28.8	-24.2	33.13	54	-20.87	-	-	115	197	H
1	* 1.298	39.86	PKFH	29.4	-24.3	44.96	-	-	74	-29.04	282	286	H
	* 1.298	27.85	VA1T	29.4	-24.3	32.95	54	-21.05	-	-	282	286	H
2	* 1.073	41.15	PKFH	27.4	-24.9	43.65	-	-	74	-30.35	207	159	H
	* 1.064	28.93	VA1T	27.3	-25	31.23	54	-22.77	-	-	207	159	H
4	* 1.201	40.87	PKFH	28.2	-24.4	44.67	-	-	74	-29.33	230	249	V
	* 1.192	28.47	VA1T	28.1	-24.4	32.17	54	-21.83	-	-	230	249	V
3	* 12.189	32.5	PKFH	39	-18.7	52.8	-	-	74	-21.2	154	119	H
	* 12.189	20.39	VA1T	39	-18.7	40.69	54	-13.31	-	-	154	119	H
6	* 11.17	33.06	PKFH	38	-19.1	51.96	-	-	74	-22.04	55	165	V
	* 11.168	20.6	VA1T	38	-19.1	39.5	54	-14.5	-	-	55	165	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	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.252	40.67	PKFH	29.1	-24.3	45.47	-	-	74	-28.53	192	258	H
	* 1.246	28.2	VA1T	29.1	-24.3	33	54	-21	-	-	192	258	H
2	* 1.419	41.15	PKFH	28.7	-24.2	45.65	-	-	74	-28.35	67	256	H
	* 1.403	28.2	VA1T	28.6	-24.2	32.6	54	-21.4	-	-	67	256	H
4	* 1.095	41.47	PKFH	27.7	-24.8	44.37	-	-	74	-29.63	8	114	V
	* 1.088	29.05	VA1T	27.6	-24.9	31.75	54	-22.25	-	-	8	114	V
5	* 1.117	41.26	PKFH	27.7	-24.7	44.26	-	-	74	-29.74	106	149	V
	* 1.117	29.08	VA1T	27.7	-24.7	32.08	54	-21.92	-	-	106	149	V
3	* 3.958	37.85	PKFH	33.3	-28.2	42.95	-	-	74	-31.05	7	105	H
	* 3.969	25.34	VA1T	33.3	-28	30.64	54	-23.36	-	-	7	105	H
6	* 7.486	34.09	PKFH	35.7	-21.1	48.69	-	-	74	-25.31	315	257	V
	* 7.496	21.53	VA1T	35.7	-21	36.23	54	-17.77	-	-	315	257	V

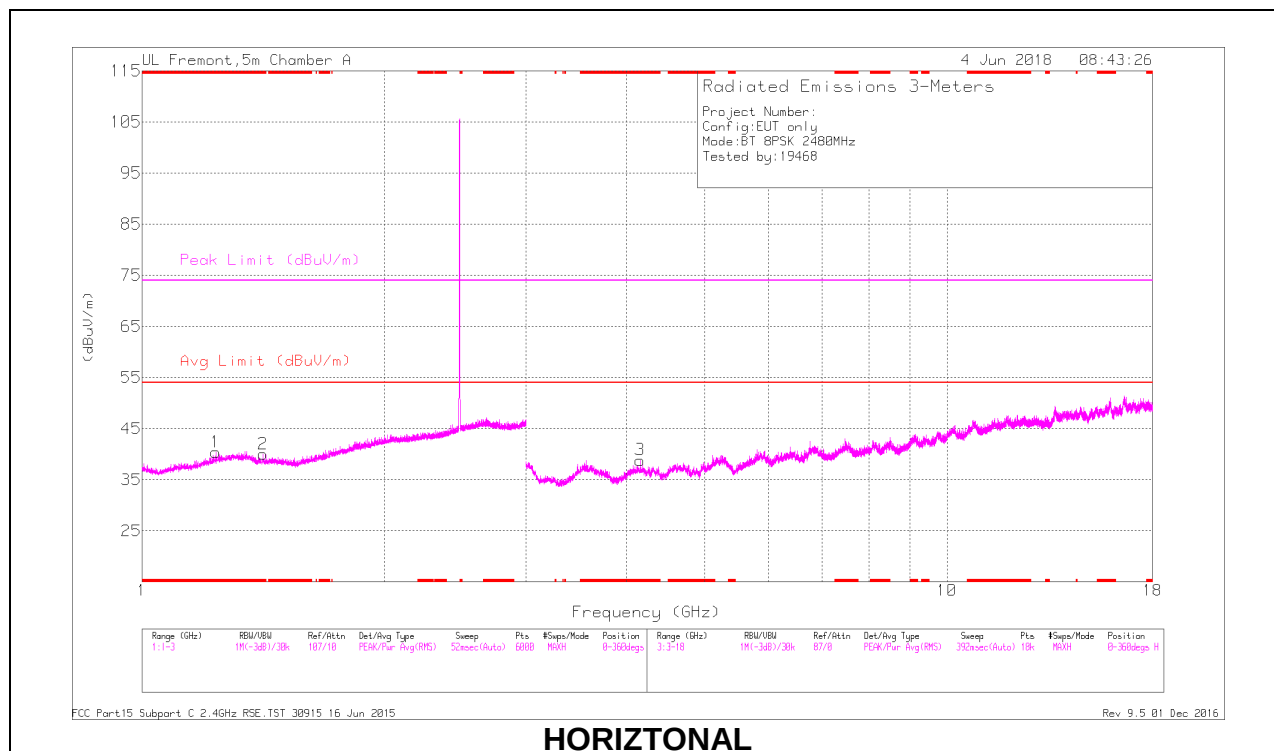
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Av - Average detection

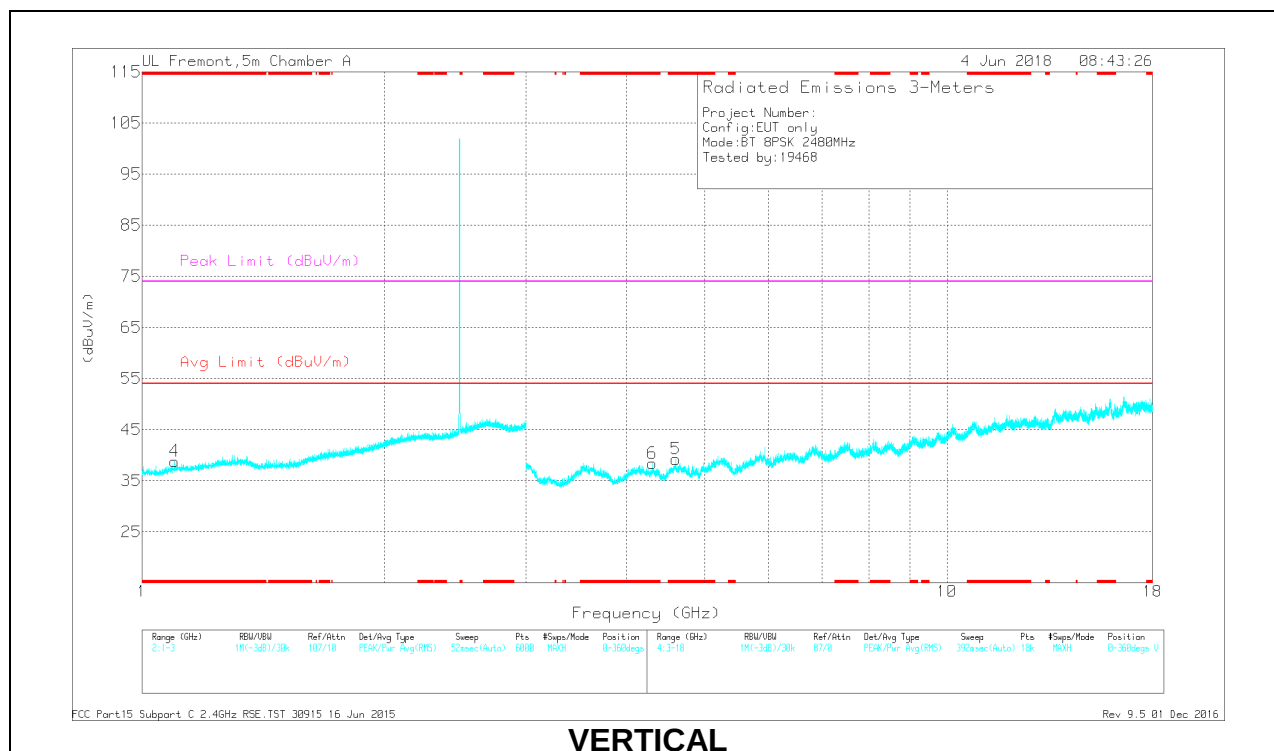
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.243	40.09	PKFH	29	-24.3	44.79	-	-	74	-29.21	198	128	H
	* 1.229	28.22	VA1T	28.7	-24.3	32.62	54	-21.38	-	-	198	128	H
2	* 1.409	40.24	PKFH	28.6	-24.2	44.64	-	-	74	-29.36	57	318	H
	* 1.422	27.78	VA1T	28.7	-24.2	32.28	54	-21.72	-	-	57	318	H
4	* 1.096	41.74	PKFH	27.7	-24.8	44.64	-	-	74	-29.36	117	113	V
	* 1.089	28.96	VA1T	27.6	-24.9	31.66	54	-22.34	-	-	117	113	V
3	* 4.153	38.57	PKFH	33.4	-26.9	45.07	-	-	74	-28.93	293	248	H
	* 4.147	25.04	VA1T	33.4	-26.9	31.54	54	-22.46	-	-	293	248	H
5	* 4.605	37.18	PKFH	34.1	-26.3	44.98	-	-	74	-29.02	358	124	V
	* 4.609	24.87	VA1T	34.1	-26.3	32.67	54	-21.33	-	-	358	124	V
6	* 4.301	36.53	PKFH	33.6	-26.7	43.43	-	-	74	-30.57	173	102	V
	* 4.314	24.85	VA1T	33.6	-26.7	31.75	54	-22.25	-	-	173	102	V

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

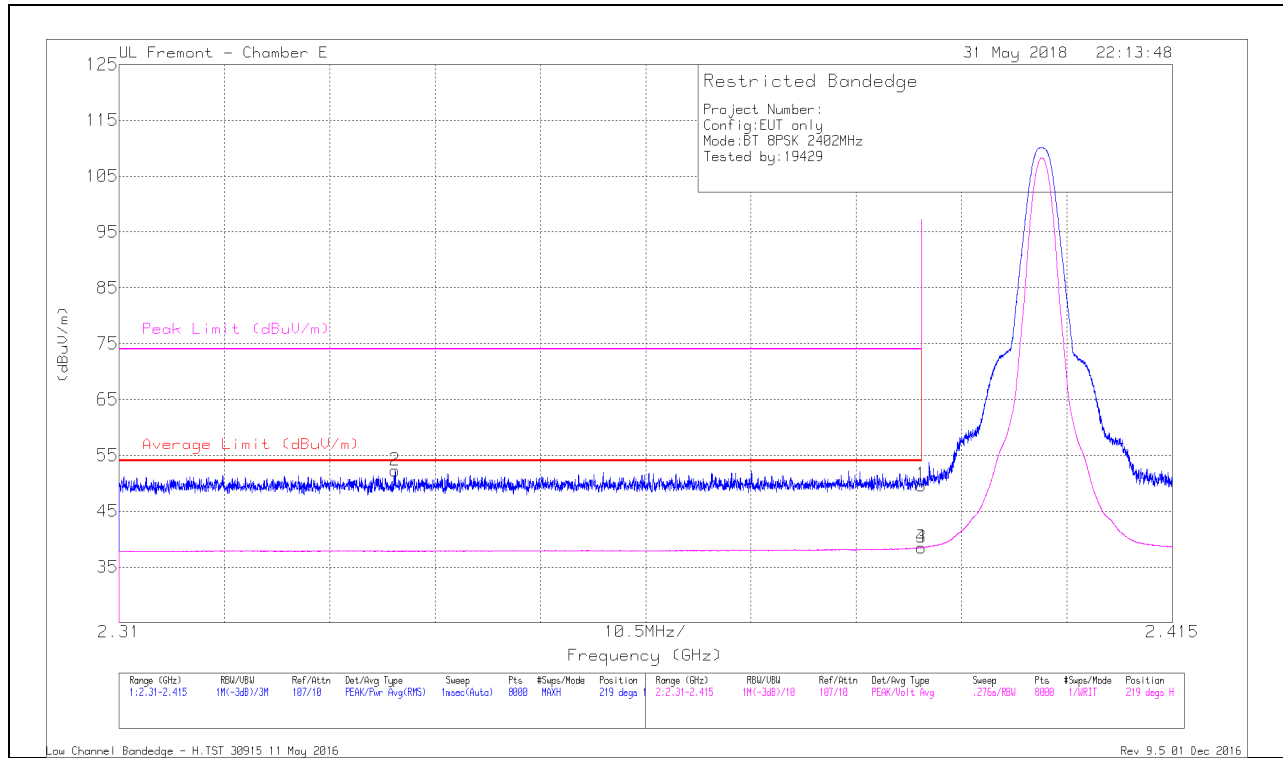
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



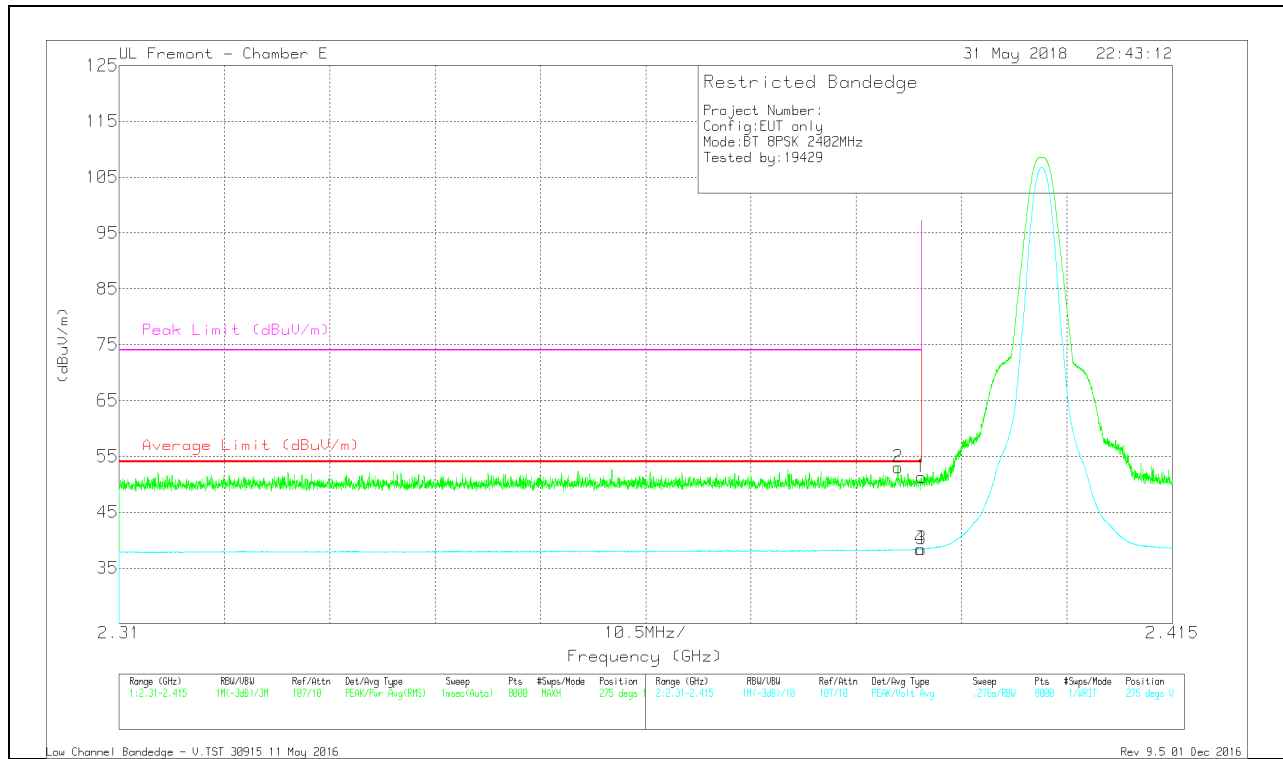
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.25	Pk	32	-22.6	49.65	-	-	74	-24.35	219	153	H
2	* 2.338	43.16	Pk	31.8	-22.7	52.26	-	-	74	-21.74	219	153	H
3	* 2.39	29.08	VA1T	32	-22.6	38.48	54	-15.52	-	-	219	152	H
4	* 2.39	29.08	VA1T	32	-22.6	38.48	54	-15.52	-	-	219	152	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 T346 (dBm)	Ampl/Cbl/Filtr/Pat (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	41.92	Pk	32	-22.6	51.32	-	-	74	-22.68	275	117	V
2	* 2.388	43.71	Pk	31.9	-22.6	53.01	-	-	74	-20.99	275	117	V
3	* 2.39	29	VA1T	32	-22.6	38.4	54	-15.6	-	-	275	117	V
4	* 2.39	28.99	VA1T	32	-22.6	38.39	54	-15.61	-	-	275	117	V

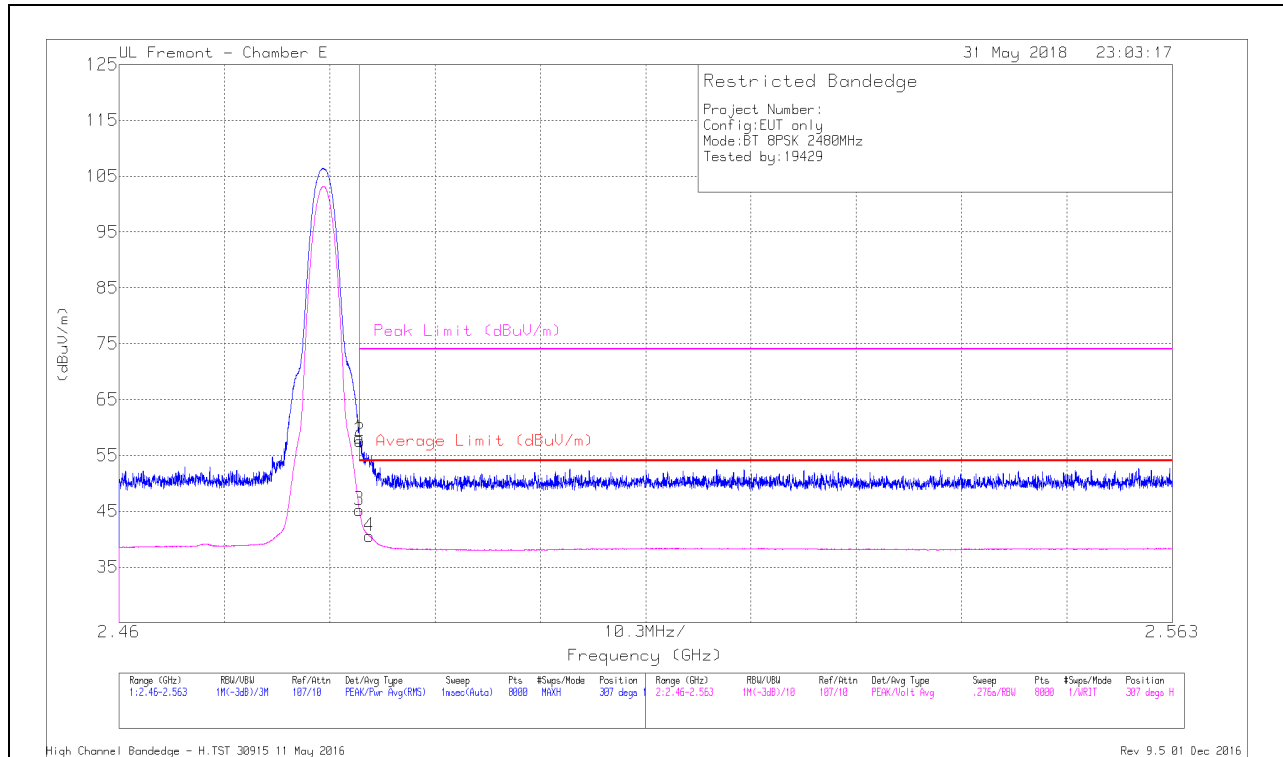
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



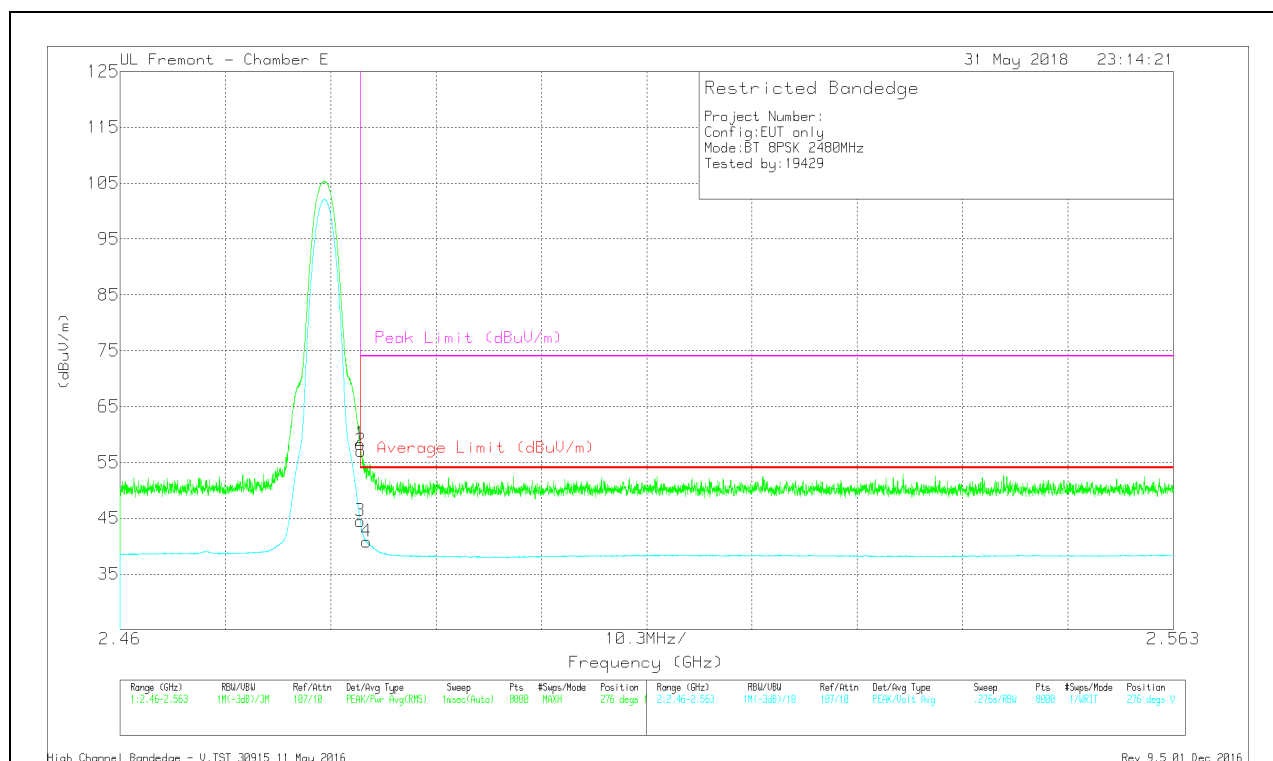
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Fltr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.35	Pk	32.1	-22.3	58.15	-	-	74	-15.85	307	148	H
2	* 2.484	47.78	Pk	32.1	-22.3	57.58	-	-	74	-16.42	307	148	H
3	* 2.484	35.43	VA1T	32.1	-22.3	45.23	54	-8.77	-	-	307	148	H
4	* 2.484	30.78	VA1T	32.1	-22.3	40.58	54	-13.42	-	-	307	148	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 T346 (dBm)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.48	Pk	32.1	-22.3	58.28	-	-	74	-15.72	276	113	V
2	* 2.484	47.22	Pk	32.1	-22.3	57.02	-	-	74	-16.98	276	113	V
3	* 2.484	34.64	VA1T	32.1	-22.3	44.44	54	-9.56	-	-	276	113	V
4	* 2.484	30.98	VA1T	32.1	-22.3	40.78	54	-13.22	-	-	276	113	V

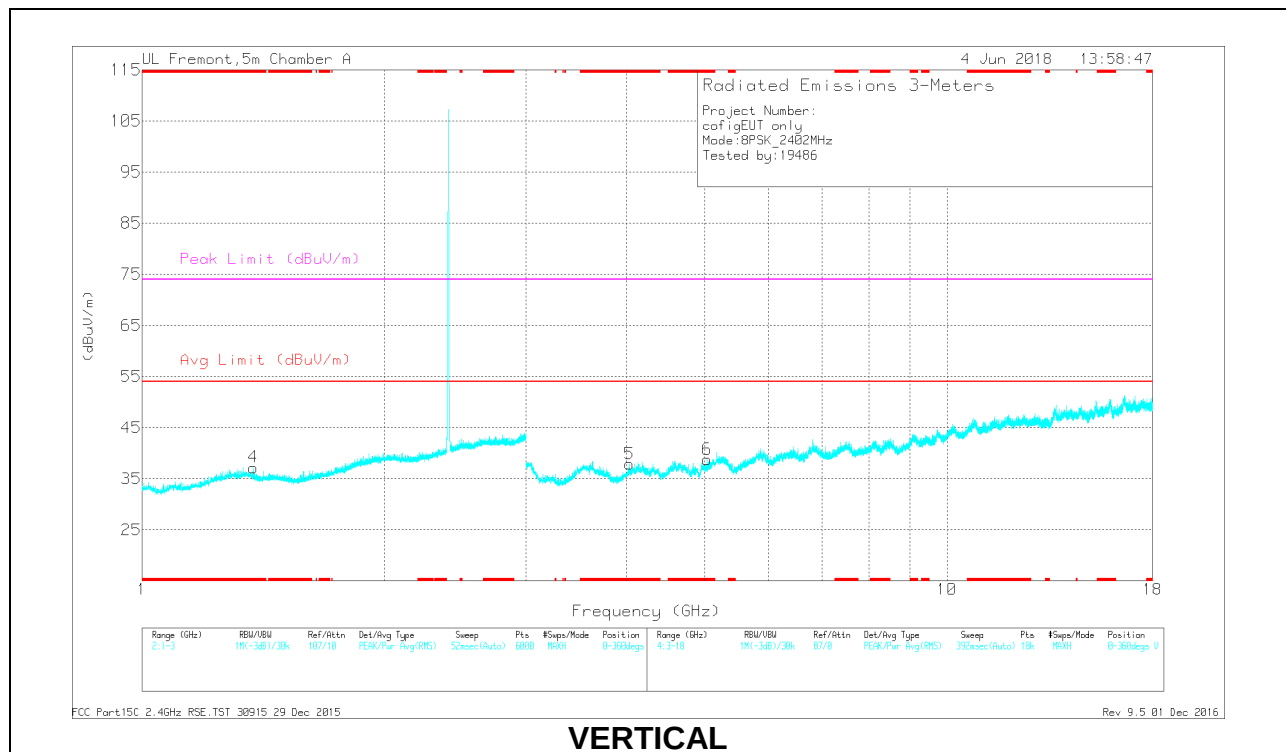
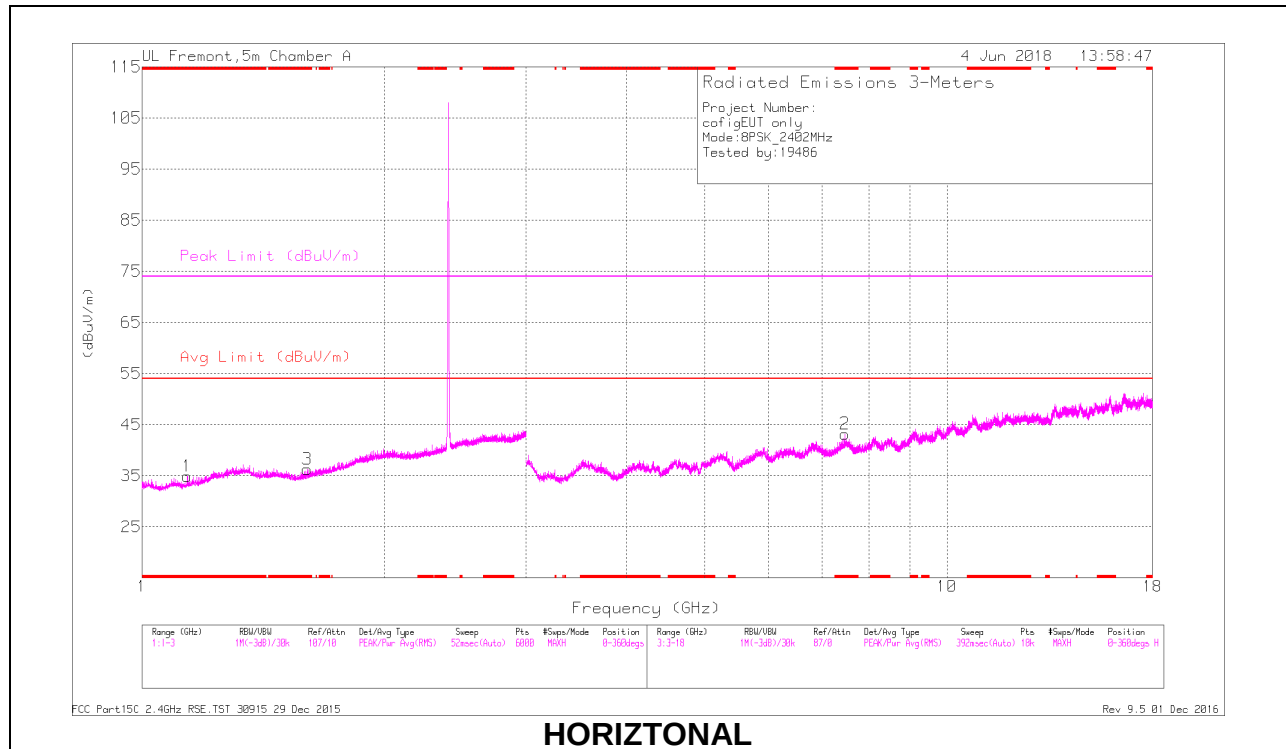
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

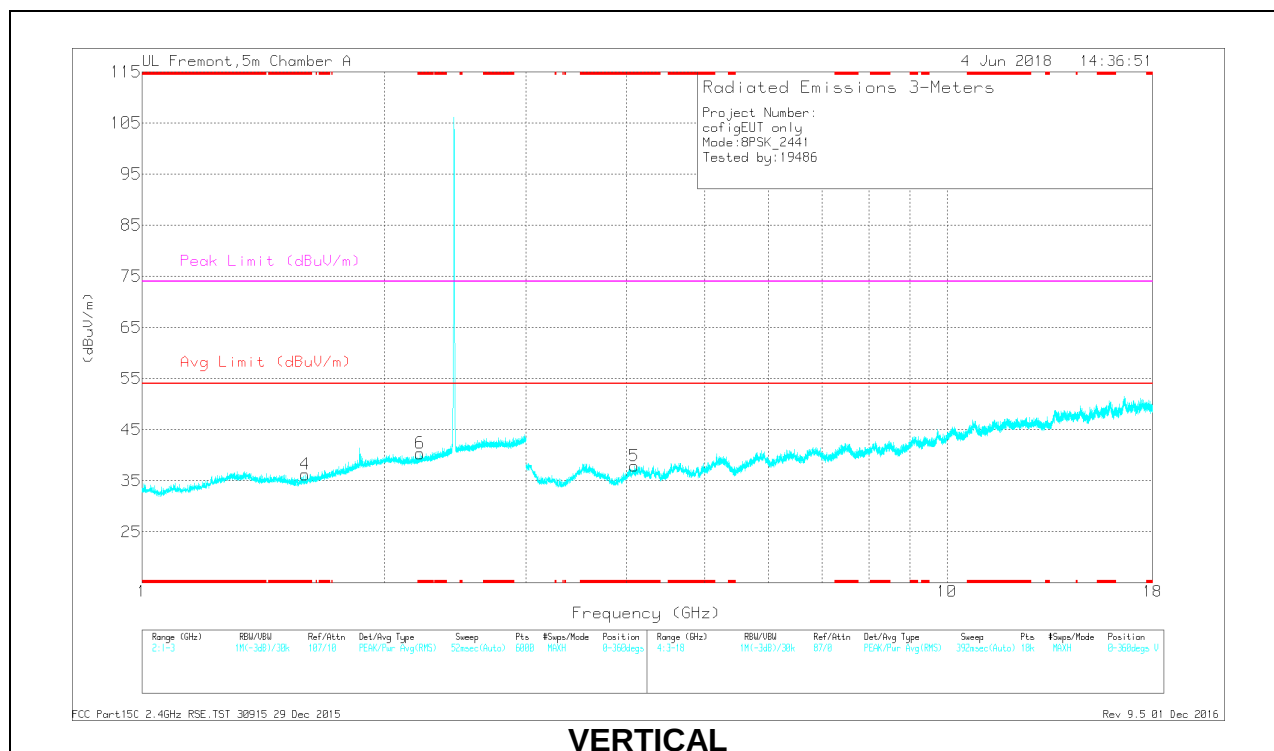
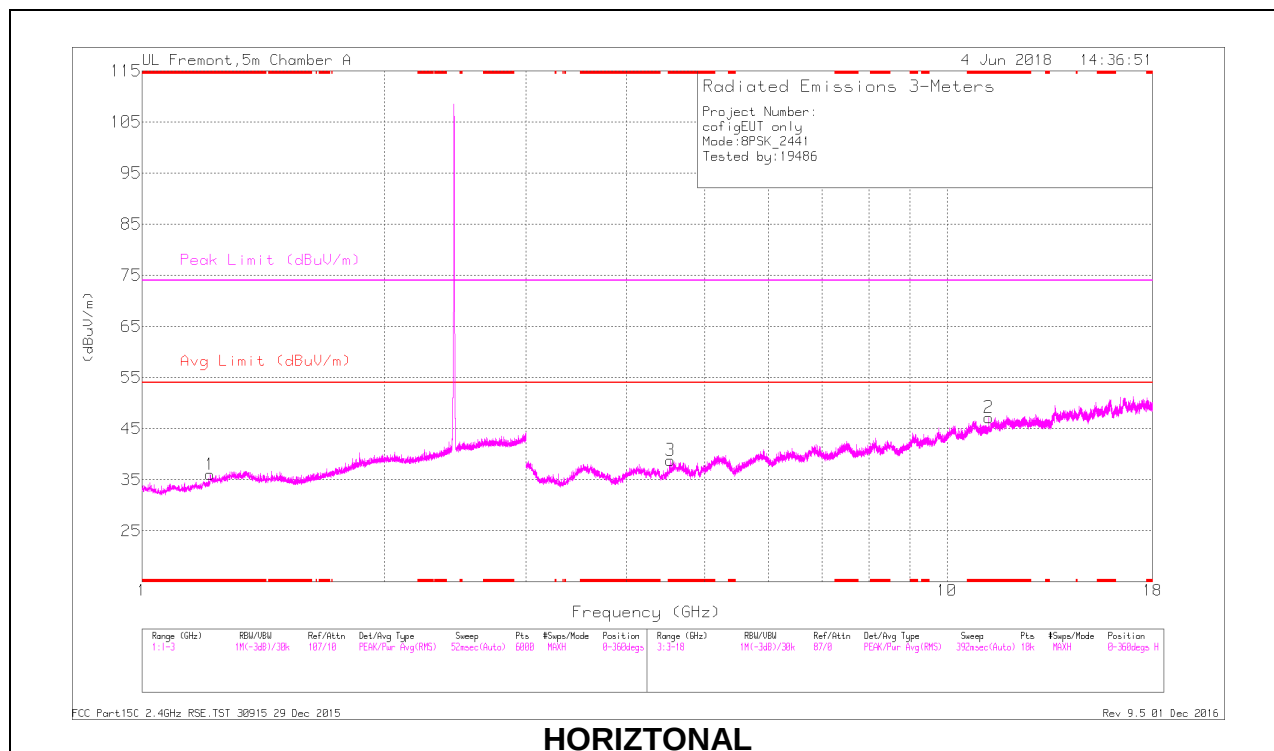
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.134	36.44	PKFH	27.7	-24	40.14	-	-	74	-33.86	108	114	H
	* 1.149	24.3	VA1T	27.6	-24	27.9	54	-26.1	-	-	108	114	H
3	* 1.607	37.14	PKFH	28.2	-23.4	41.94	-	-	74	-32.06	337	168	H
	* 1.613	24.5	VA1T	28.3	-23.3	29.5	54	-24.5	-	-	337	168	H
4	* 1.366	37.9	PKFH	29.2	-23.5	43.6	-	-	74	-30.4	19	363	V
	* 1.366	24.26	VA1T	29.2	-23.6	29.86	54	-24.14	-	-	19	363	V
2	* 7.478	33.73	PKFH	35.7	-21.1	48.33	-	-	74	-25.67	172	108	H
	* 7.479	21.4	VA1T	35.7	-21.1	36	54	-18	-	-	172	108	H
5	* 4.04	37	PKFH	33.4	-27.2	43.2	-	-	74	-30.8	143	104	V
	* 4.024	25.11	VA1T	33.4	-27.3	31.21	54	-22.79	-	-	143	104	V
6	* 5.045	37.19	PKFH	34.4	-27.3	44.29	-	-	74	-29.71	247	157	V
	* 5.048	24.96	VA1T	34.4	-27.2	32.16	54	-21.84	-	-	247	157	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

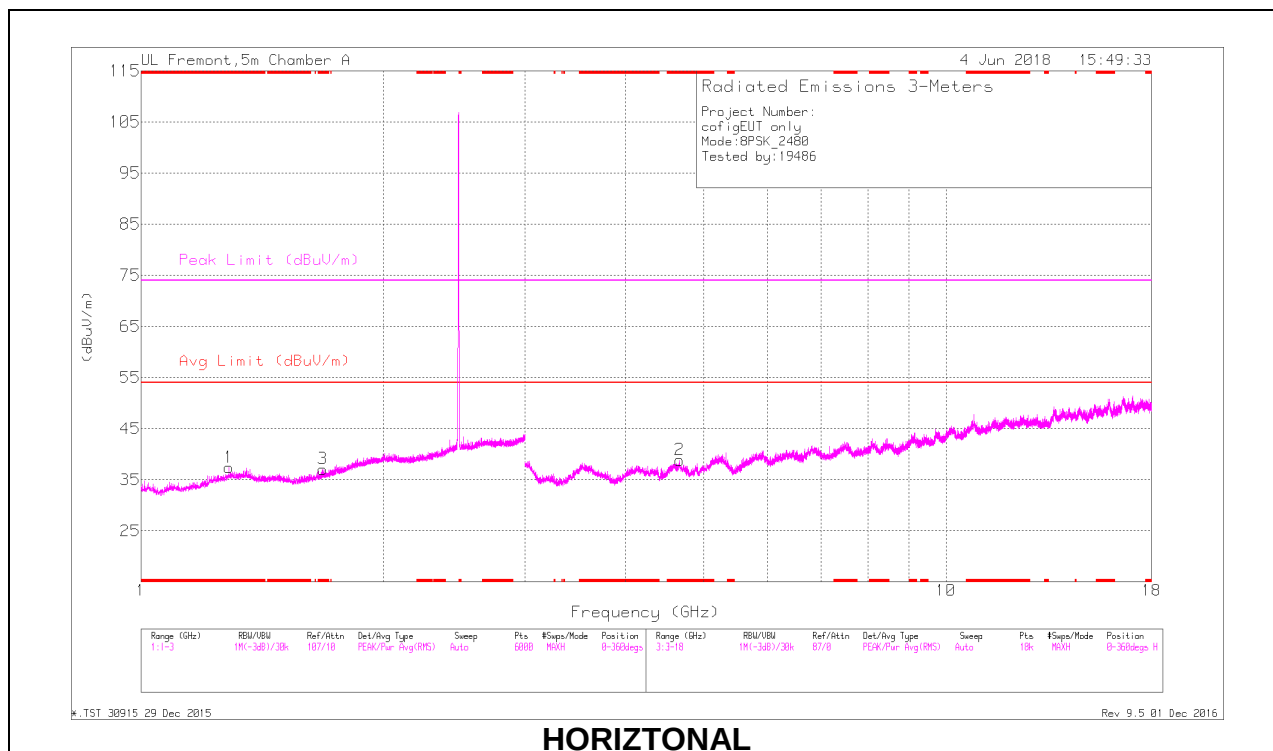
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.216	36.71	PKFH	28.5	-23.6	41.61	-	-	74	-32.39	252	352	H
	* 1.225	24.22	VA1T	28.7	-23.8	29.12	54	-24.88	-	-	252	352	H
4	* 1.591	36.81	PKFH	28.1	-23.4	41.51	-	-	74	-32.49	0	367	V
	* 1.604	24.47	VA1T	28.2	-23.4	29.27	54	-24.73	-	-	0	367	V
6	* 2.207	37.57	PKFH	31.2	-23.6	45.17	-	-	74	-28.83	344	231	V
	* 2.217	25.23	VA1T	31.3	-23.6	32.93	54	-21.07	-	-	344	231	V
2	* 11.273	32.18	PKFH	38	-18.3	51.88	-	-	74	-22.12	355	162	H
	* 11.273	20.12	VA1T	38	-18.3	39.82	54	-14.18	-	-	355	162	H
3	* 4.525	36.93	PKFH	33.9	-26.4	44.43	-	-	74	-29.57	51	179	H
	* 4.544	24.67	VA1T	34	-26.5	32.17	54	-21.83	-	-	51	179	H
5	* 4.086	37.33	PKFH	33.4	-27	43.73	-	-	74	-30.27	137	186	V
	* 4.092	25.1	VA1T	33.4	-27	31.5	54	-22.5	-	-	137	186	V

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

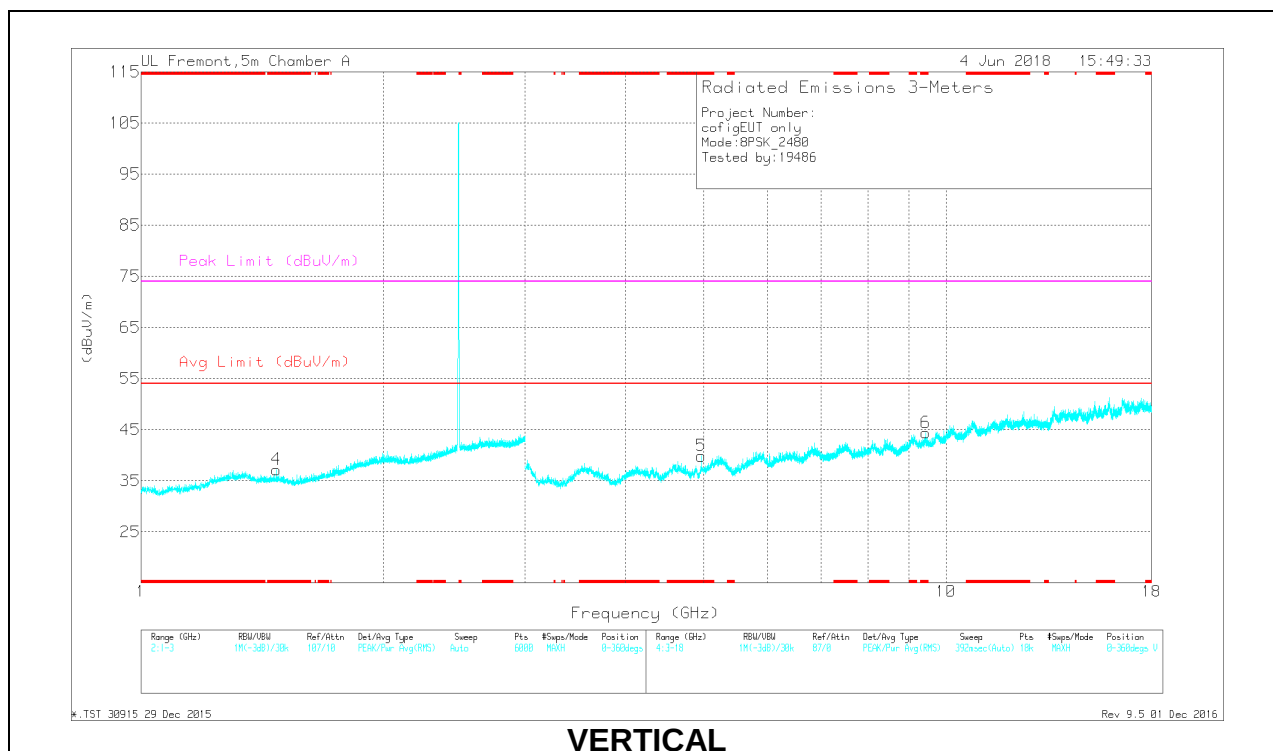
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.295	36.45	PKFH	29.4	-23.7	42.15	-	-	74	-31.85	47	372	H
	* 1.288	24.29	VA1T	29.4	-23.6	30.09	54	-23.91	-	-	47	372	H
3	* 1.677	37.46	PKFH	28.7	-23.4	42.76	-	-	74	-31.24	288	110	H
	* 1.688	24.76	VA1T	28.8	-23.4	30.16	54	-23.84	-	-	288	110	H
4	* 1.471	36.65	PKFH	28.6	-23.4	41.85	-	-	74	-32.15	48	143	V
	* 1.474	24.39	VA1T	28.6	-23.4	29.59	54	-24.41	-	-	48	143	V
2	* 4.661	37.48	PKFH	34	-26.1	45.38	-	-	74	-28.62	95	218	H
	* 4.672	24.88	VA1T	34	-26.4	32.48	54	-21.52	-	-	95	218	H
5	* 4.973	38.58	PKFH	34.3	-27.5	45.38	-	-	74	-28.62	141	247	V
	* 4.973	25.63	VA1T	34.3	-27.5	32.43	54	-21.57	-	-	141	247	V
6	* 9.441	32.84	PKFH	36.7	-20.4	49.14	-	-	74	-24.86	300	225	V
	* 9.44	21.06	VA1T	36.7	-20.4	37.36	54	-16.64	-	-	300	225	V

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

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

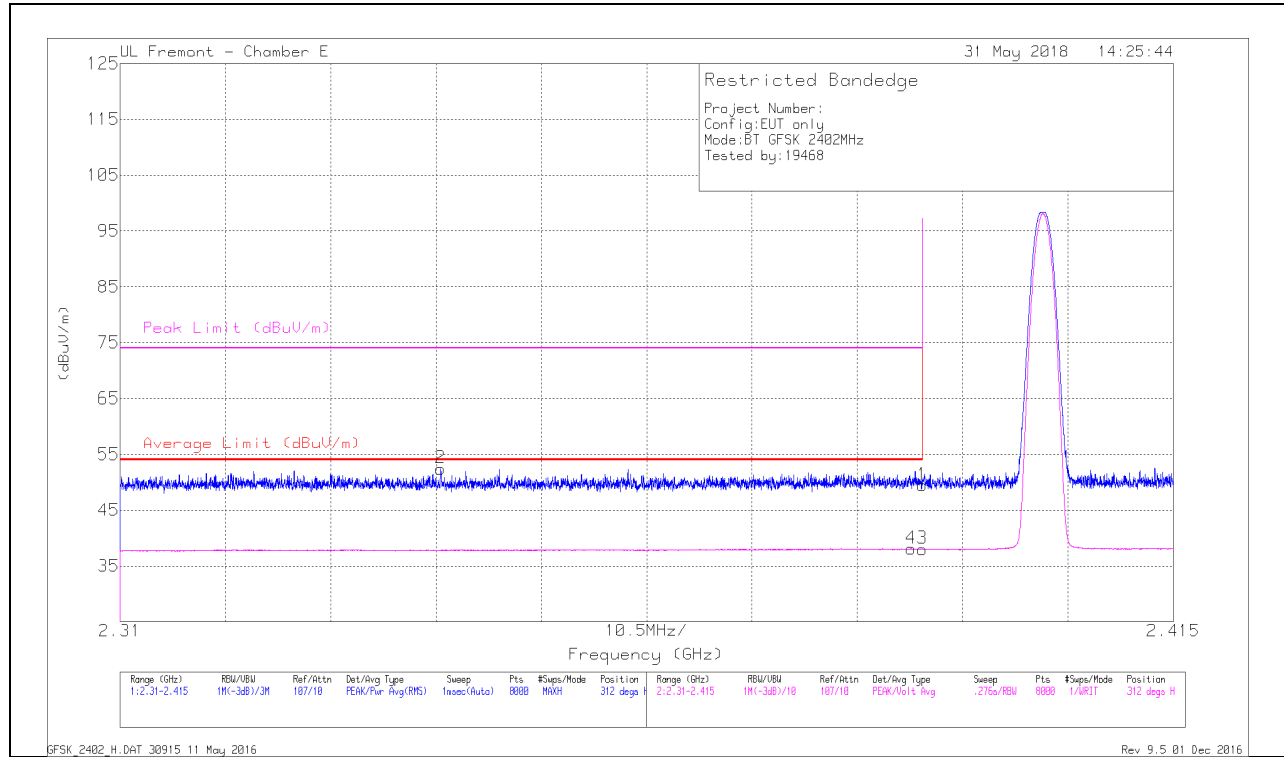
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.3. LOW POWER BASIC DATA RATE GFSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



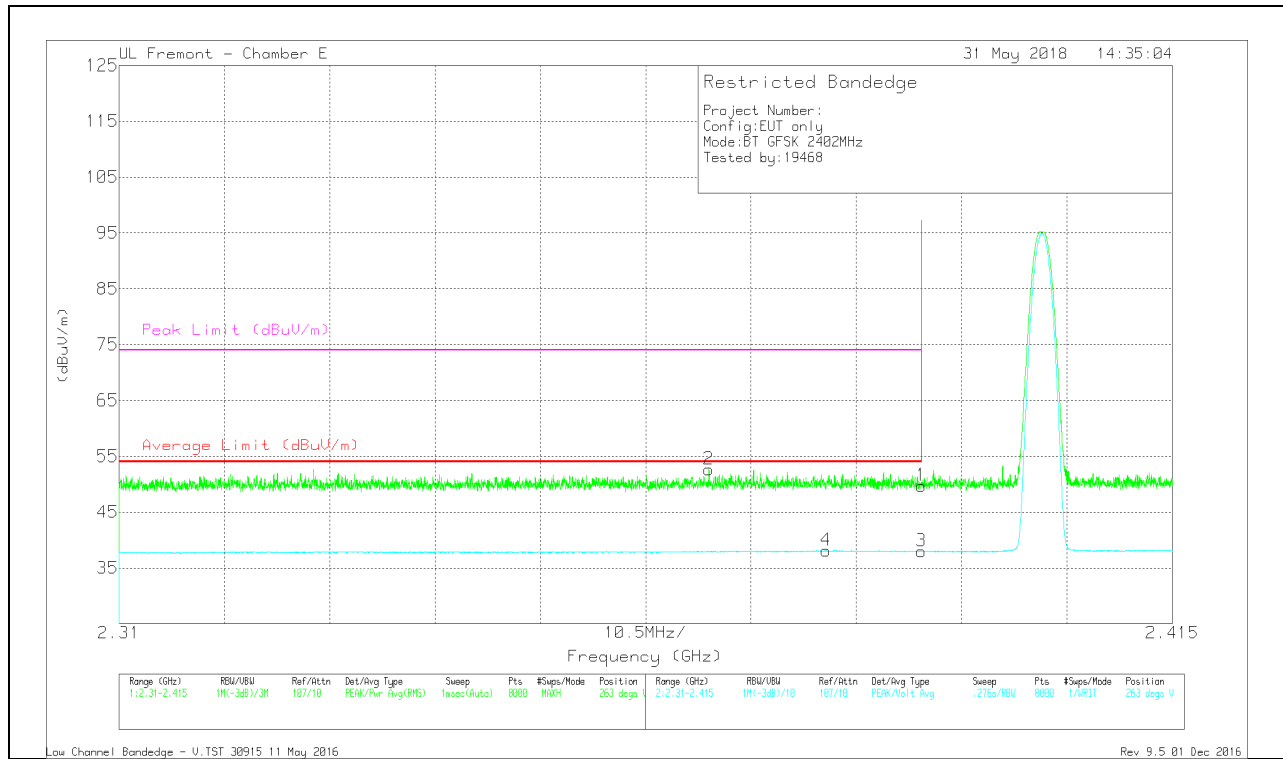
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb I/Ftr/Pa d (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.342	43.36	Pk	31.8	-22.7	52.46	-	-	74	-21.54	312	155	H
4	* 2.389	28.79	VA1T	31.9	-22.6	38.09	54	-15.91	-	-	312	155	H
1	* 2.39	40.07	Pk	32	-22.6	49.47	-	-	74	-24.53	312	155	H
3	* 2.39	28.64	VA1T	32	-22.6	38.04	54	-15.96	-	-	312	155	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	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /Ftr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.369	43.43	Pk	31.9	-22.7	52.63	-	-	74	-21.37	263	271	V
4	* 2.38	28.79	VA1T	31.9	-22.6	38.09	54	-15.91	-	-	263	270	V
1	* 2.39	40.29	Pk	32	-22.6	49.69	-	-	74	-24.31	263	271	V
3	* 2.39	28.58	VA1T	32	-22.6	37.98	54	-16.02	-	-	263	270	V

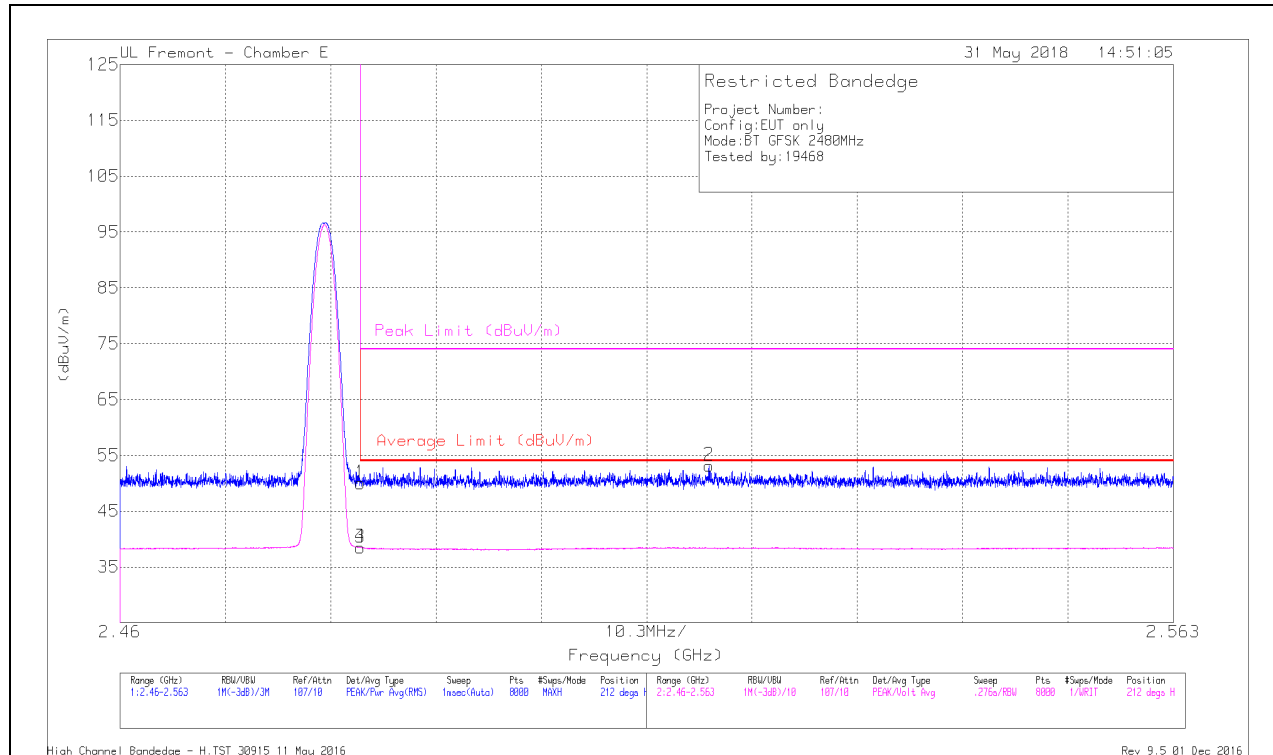
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



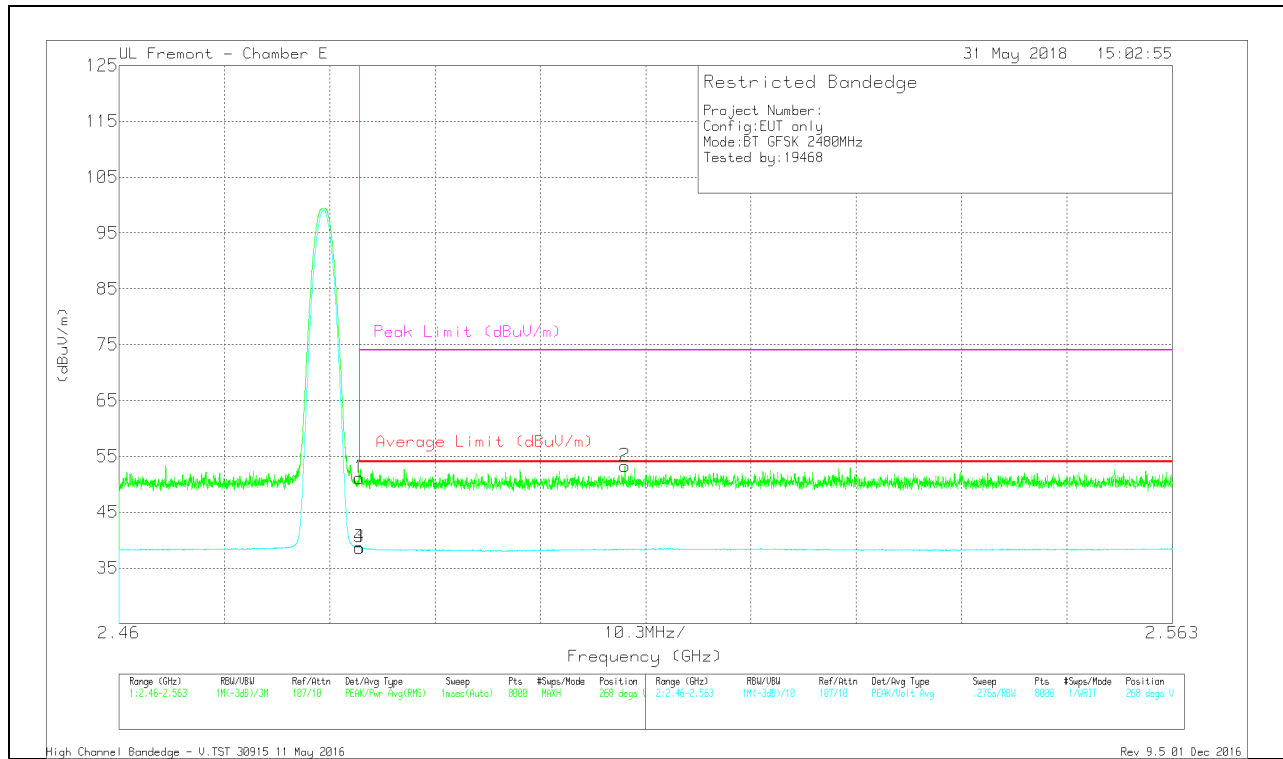
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb I/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.23	Pk	32.1	-22.3	50.03	-	-	74	-23.97	212	109	H
3	* 2.484	28.71	VA1T	32.1	-22.3	38.51	54	-15.49	-	-	212	109	H
4	* 2.484	28.73	VA1T	32.1	-22.3	38.53	54	-15.47	-	-	212	109	H
2	2.518	43.27	Pk	32.1	-22.2	53.17	-	-	74	-20.83	212	109	H

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

Pk - Peak detector

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb I/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	41.34	Pk	32.1	-22.3	51.14	-	-	74	-22.86	268	177	V
3	* 2.484	28.87	VA1T	32.1	-22.3	38.67	54	-15.33	-	-	268	177	V
4	* 2.484	28.86	VA1T	32.1	-22.3	38.66	54	-15.34	-	-	268	177	V
2	2.509	43.47	Pk	32.1	-22.3	53.27	-	-	74	-20.73	268	177	V

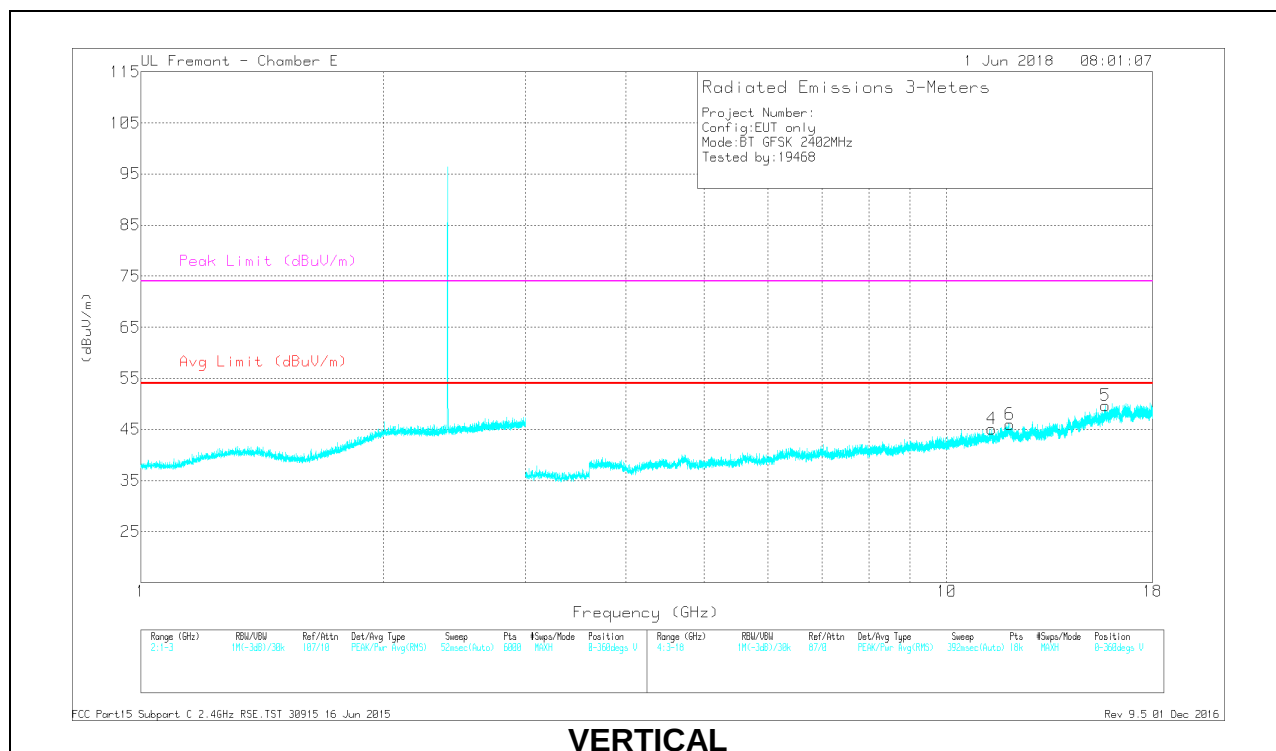
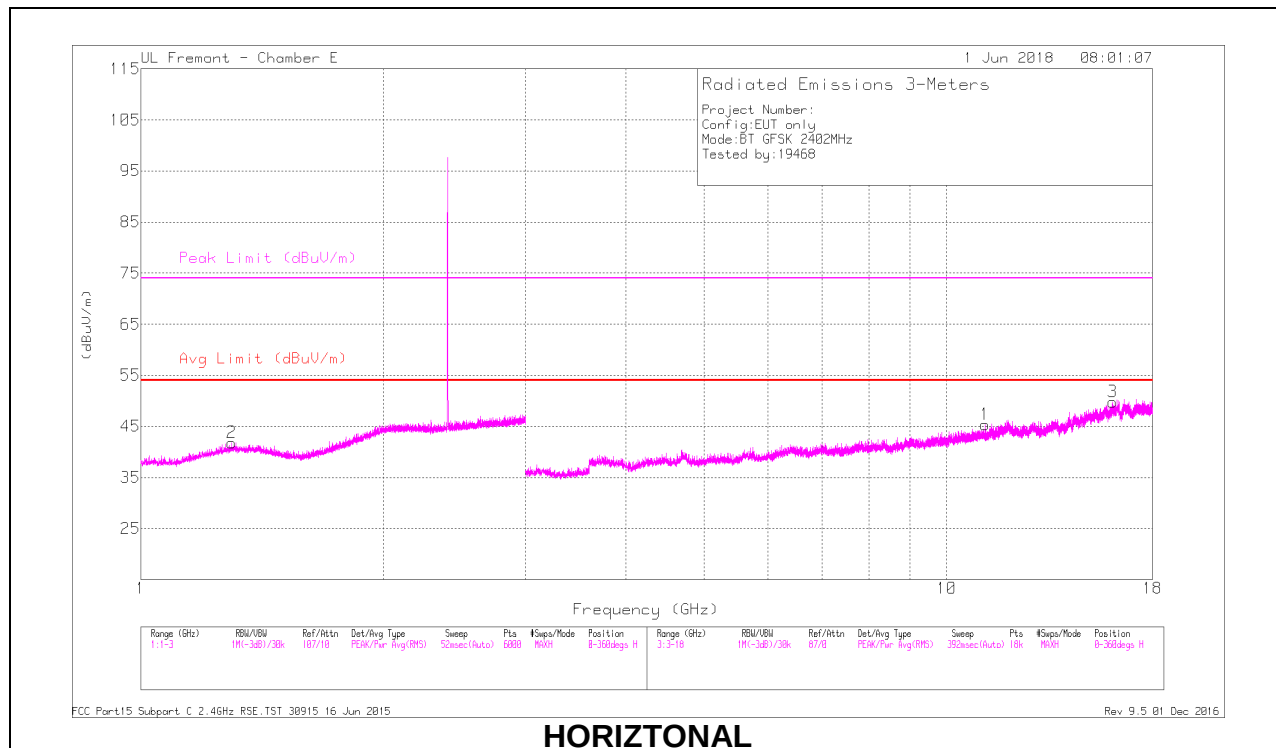
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

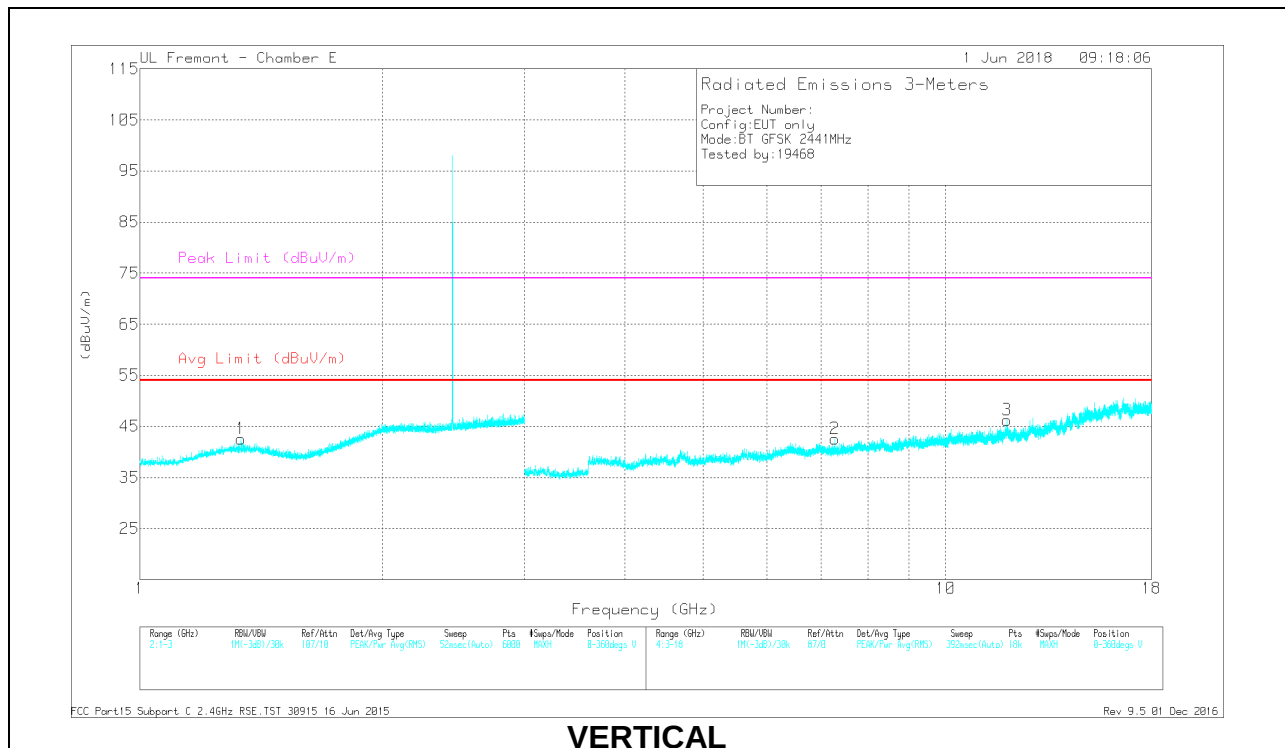
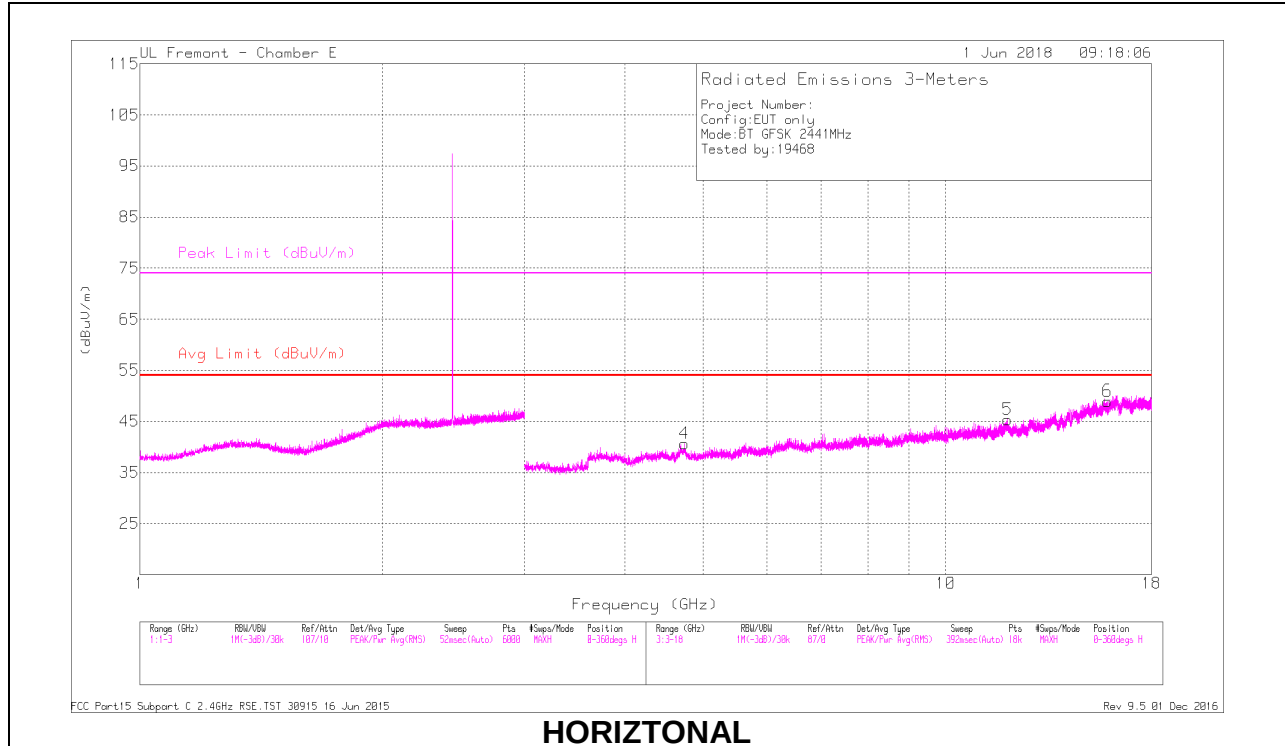
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.299	43.26	PKFH	28.9	-25.3	46.86	-	-	74	-27.14	89	381	H
	* 1.295	31.28	VA1T	28.9	-25.3	34.88	54	-19.12	-	-	89	381	H
1	* 11.154	35.23	PKFH	38.5	-22.8	50.93	-	-	74	-23.07	337	117	H
	* 11.149	20.92	VA1T	38.5	-22.9	36.52	54	-17.48	-	-	337	117	H
3	* 16.075	35.58	PKFH	41.6	-21.5	55.68	-	-	74	-18.32	89	102	H
	* 16.072	22.73	VA1T	41.6	-21.5	42.83	54	-11.17	-	-	89	102	H
4	* 11.362	34.97	PKFH	38.6	-22.2	51.37	-	-	74	-22.63	360	107	V
	* 11.362	20.82	VA1T	38.6	-22.2	37.22	54	-16.78	-	-	360	107	V
5	* 15.739	36.43	PKFH	41.7	-21.9	56.23	-	-	74	-17.77	193	102	V
	* 15.749	23.06	VA1T	41.7	-21.9	42.86	54	-11.14	-	-	193	102	V
6	* 11.978	32.09	PKFH	39.7	-22.6	49.19	-	-	74	-24.81	214	300	V
	* 11.976	18.22	VA1T	39.7	-22.5	35.42	54	-18.58	-	-	214	300	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

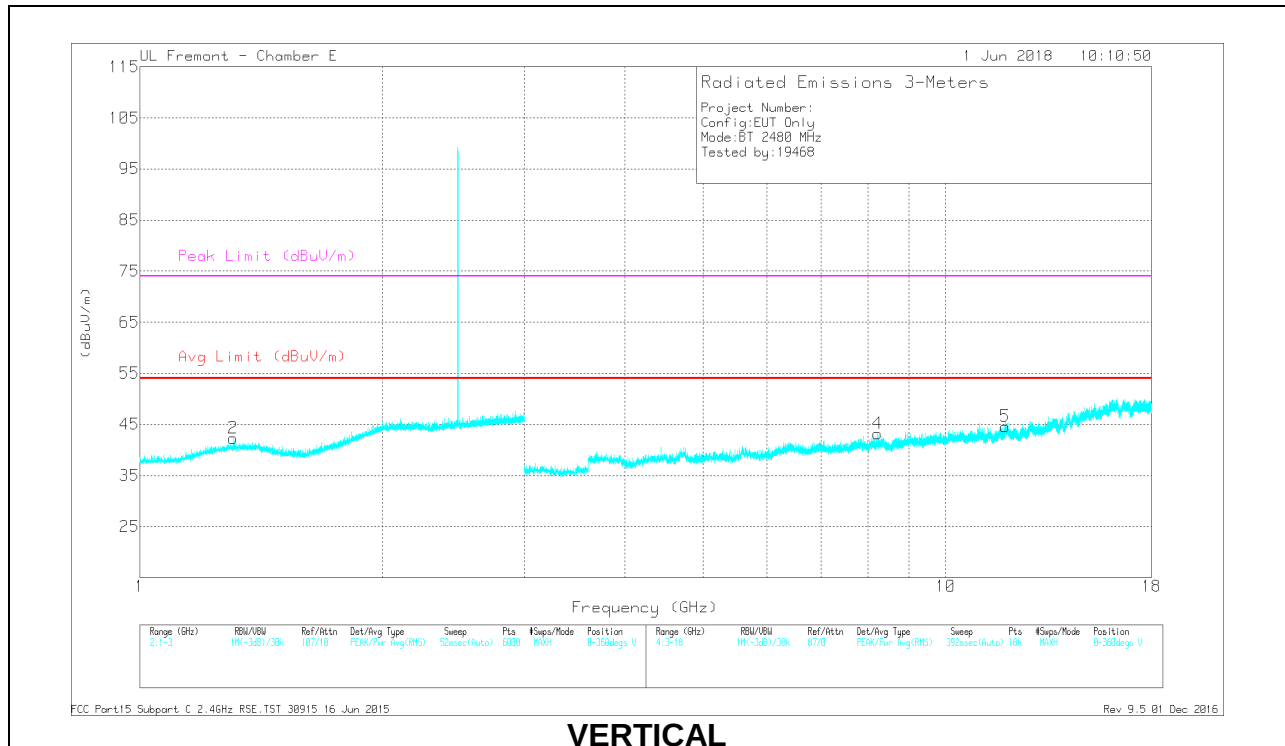
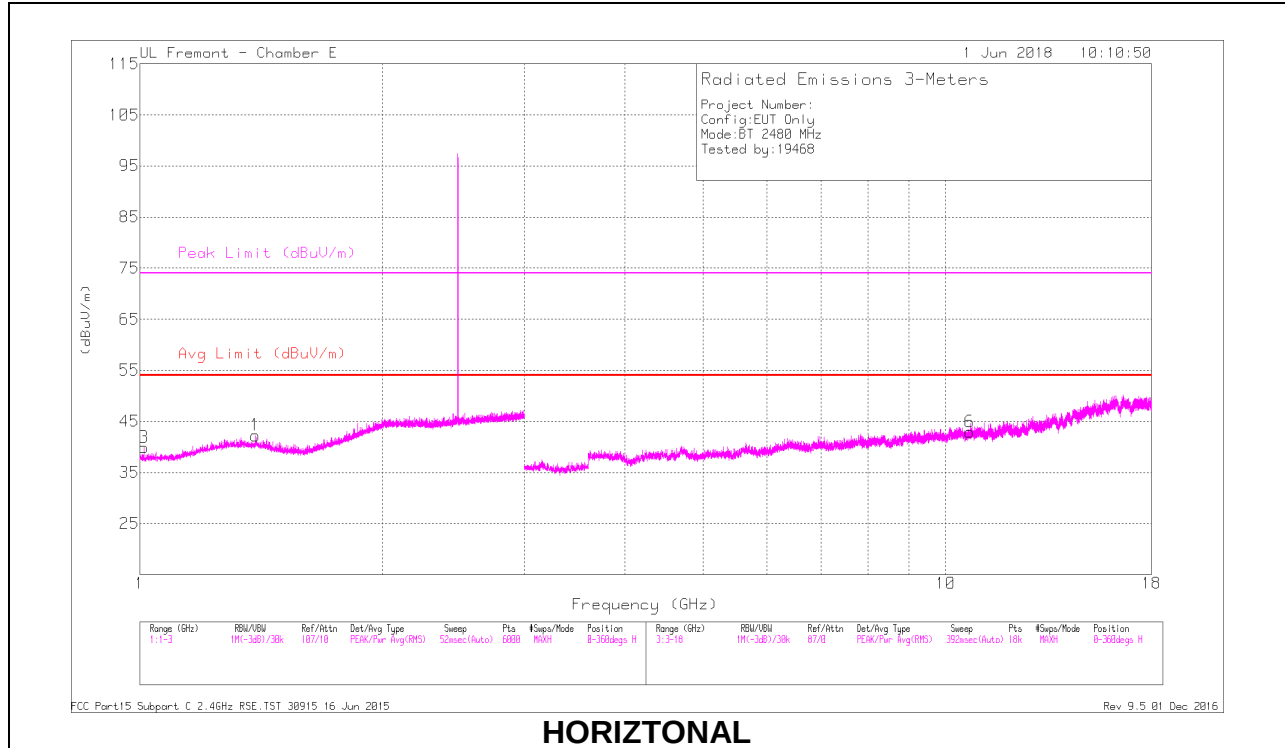
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.334	42.94	PKFH	28.9	-25.2	46.64	-	-	74	-27.36	231	142	V
	* 1.336	31.15	VA1T	28.9	-25.2	34.85	54	-19.15	-	-	231	142	V
4	* 4.743	41.37	PKFH	34.4	-28.5	47.27	-	-	74	-26.73	303	321	H
	* 4.742	28.68	VA1T	34.4	-28.5	34.58	54	-19.42	-	-	303	321	H
5	* 11.93	35.04	PKFH	39.5	-21.9	52.64	-	-	74	-21.36	45	101	H
	* 11.928	21.01	VA1T	39.5	-21.9	38.61	54	-15.39	-	-	45	101	H
6	* 15.874	36.41	PKFH	41.5	-22.3	55.61	-	-	74	-18.39	87	108	H
	* 15.875	22.74	VA1T	41.5	-22.3	41.94	54	-12.06	-	-	87	108	H
2	* 7.279	38.07	PKFH	36	-26	48.07	-	-	74	-25.93	144	166	V
	* 7.277	24.87	VA1T	36	-26.1	34.77	54	-19.23	-	-	144	166	V
3	* 11.926	34.75	PKFH	39.5	-22	52.25	-	-	74	-21.75	319	107	V
	* 11.927	21.01	VA1T	39.5	-21.9	38.61	54	-15.39	-	-	319	107	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	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.385	44.28	PKFH	28.8	-25.1	47.98	-	-	74	-26.02	196	183	H
	* 1.399	31.07	VA1T	28.8	-25.1	34.77	54	-19.23	-	-	196	183	H
3	* 1.013	44.26	PKFH	26.5	-26	44.76	-	-	74	-29.24	222	235	H
	* 1.002	31.79	VA1T	26.5	-26	32.29	54	-21.71	-	-	222	235	H
2	* 1.304	44.55	PKFH	28.9	-25.3	48.15	-	-	74	-25.85	0	349	V
	* 1.305	31.17	VA1T	28.9	-25.3	34.77	54	-19.23	-	-	0	349	V
6	* 10.707	35.37	PKFH	38	-22.8	50.57	-	-	74	-23.43	47	104	H
	* 10.717	21.58	VA1T	38	-22.9	36.68	54	-17.32	-	-	47	104	H
4	* 8.229	38.35	PKFH	36.5	-25.8	49.05	-	-	74	-24.95	5	110	V
	* 8.239	25.5	VA1T	36.5	-26	36	54	-18	-	-	5	110	V
5	* 11.855	35.37	PKFH	39.4	-22.9	51.87	-	-	74	-22.13	301	119	V
	* 11.842	21.35	VA1T	39.4	-23.3	37.45	54	-16.55	-	-	301	119	V

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

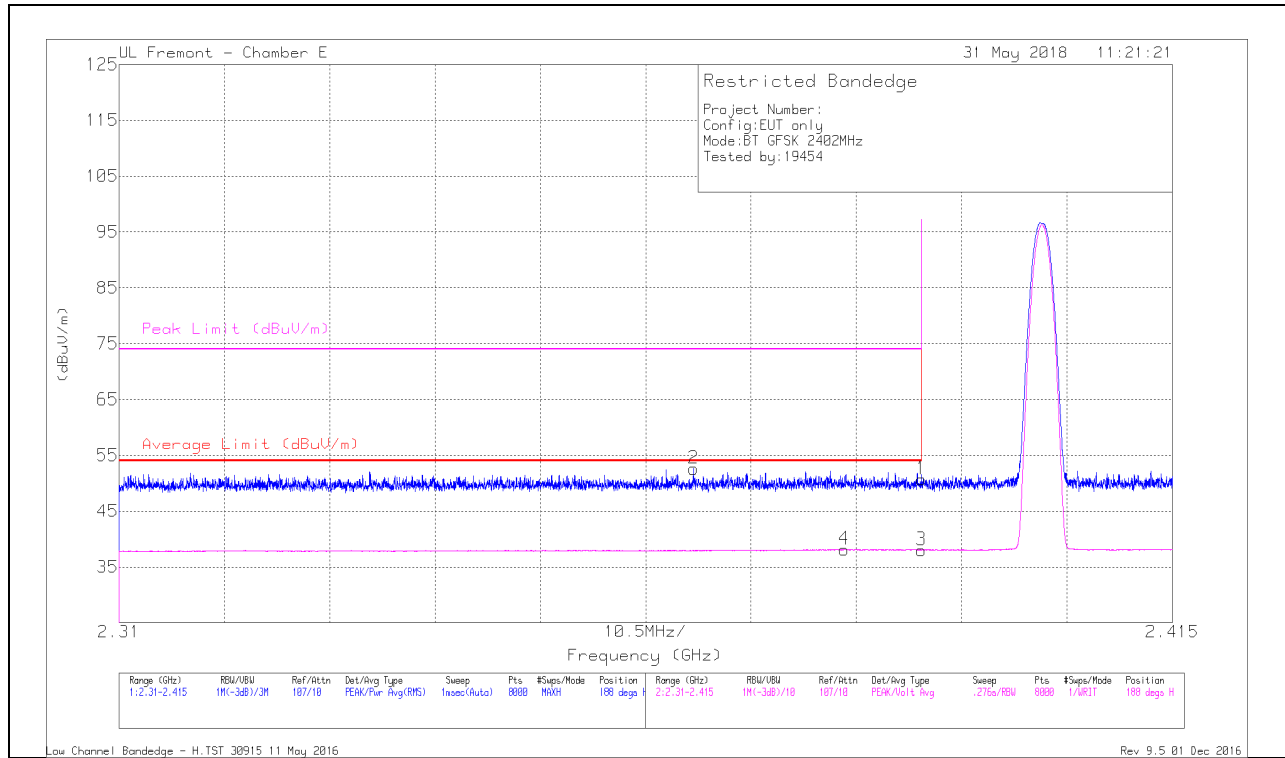
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



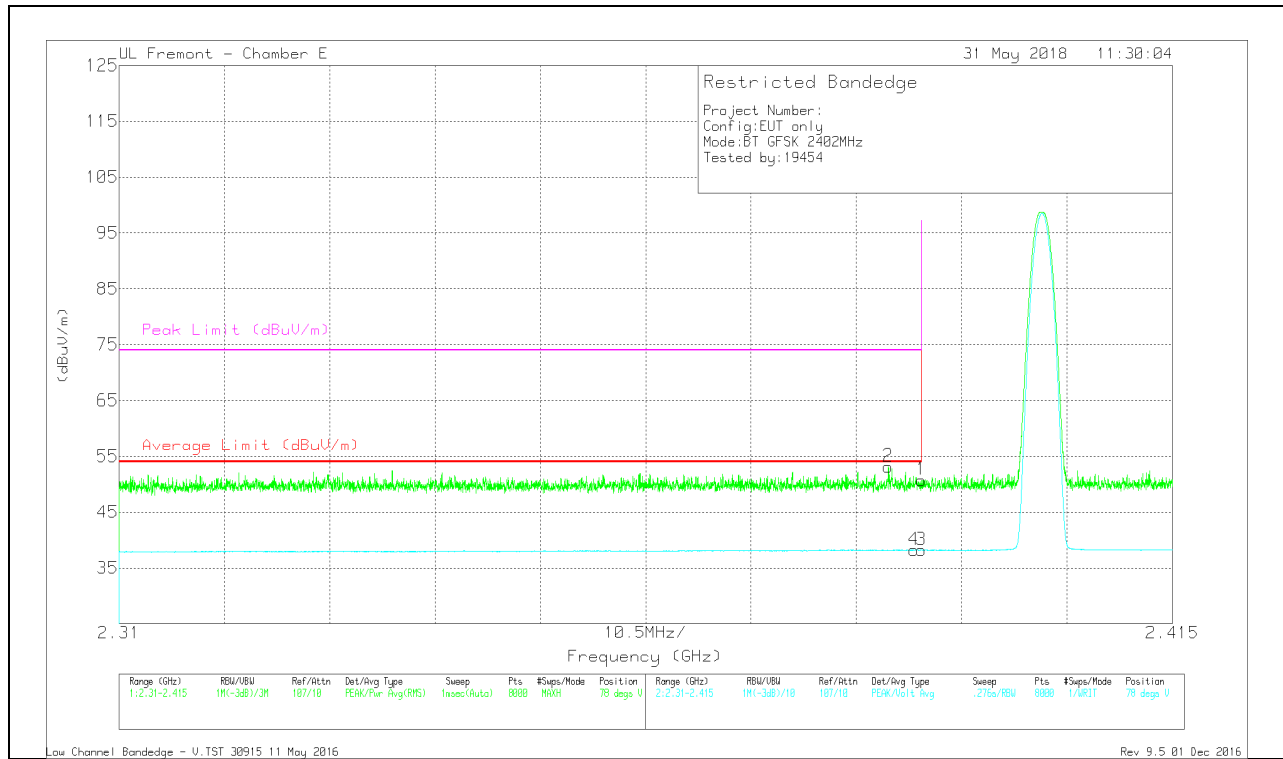
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.34	Pk	32	-22.6	50.74	-	-	74	-23.26	188	123	H
2	* 2.367	43.41	Pk	31.9	-22.7	52.61	-	-	74	-21.39	188	123	H
3	* 2.39	28.63	VA1T	32	-22.6	38.03	54	-15.97	-	-	188	123	H
4	* 2.382	28.85	VA1T	31.9	-22.6	38.15	54	-15.85	-	-	188	123	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 T346 (dB/m)	Amp/Cb I/Filt/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	41.35	Pk	32	-22.6	50.75	-	-	74	-23.25	78	118	V
2	* 2.387	43.85	PK	31.9	-22.6	53.15	-	-	74	-20.85	78	118	V
3	* 2.39	28.83	VA1T	32	-22.6	38.23	54	-15.77	-	-	78	117	V
4	* 2.389	28.93	VA1T	31.9	-22.6	38.23	54	-15.77	-	-	78	117	V

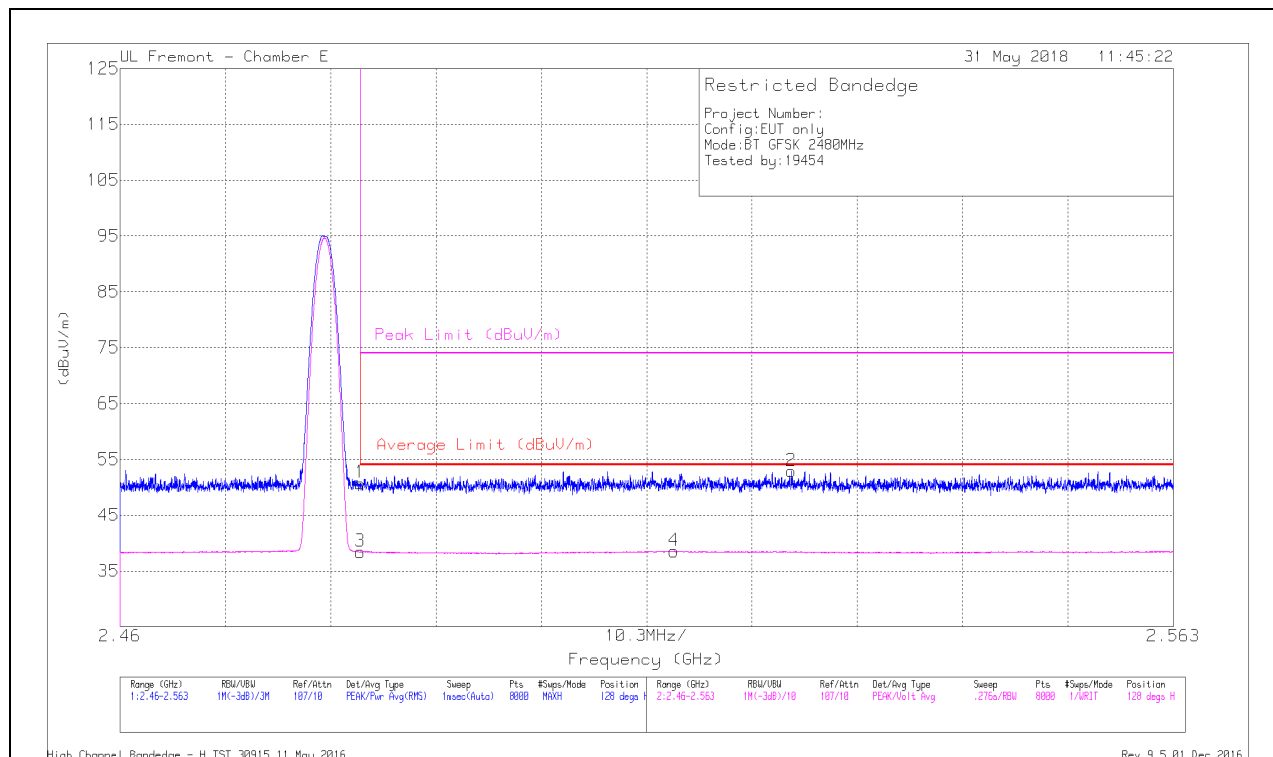
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



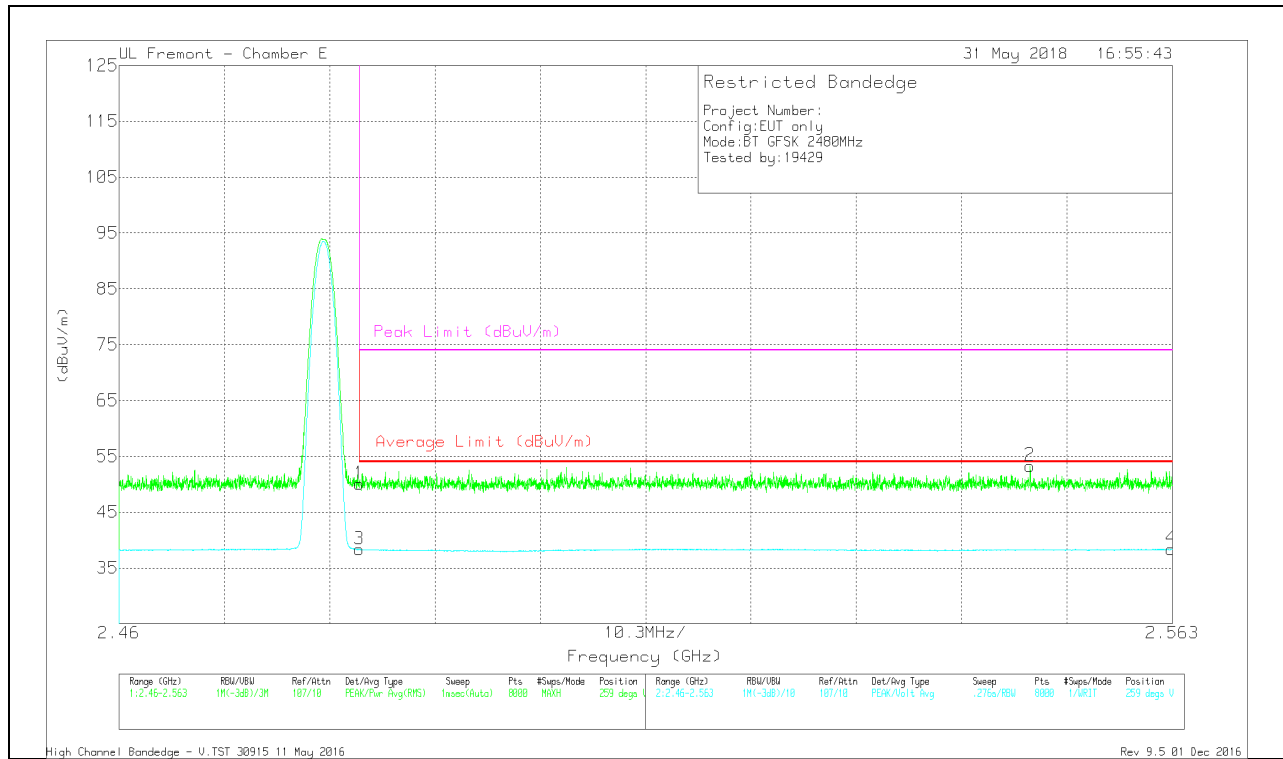
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb I/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.95	Pk	32.1	-22.3	50.75	-	-	74	-23.25	128	121	H
3	* 2.484	28.63	VA1T	32.1	-22.3	38.43	54	-15.57	-	-	128	121	H
4	2.514	28.66	VA1T	32.1	-22.2	38.56	54	-15.44	-	-	128	121	H
2	2.526	43.08	Pk	32.1	-22.3	52.88	-	-	74	-21.12	128	121	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 T346 (dB/m)	Amp/Cb I/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	40.26	Pk	32.1	-22.3	50.06	-	-	74	-23.94	259	110	V
3	* 2.484	28.53	VA1T	32.1	-22.3	38.33	54	-15.67	-	-	259	110	V
2	2.549	43.5	Pk	32.1	-22.3	53.3	-	-	74	-20.7	259	110	V
4	2.563	28.61	VA1T	32.1	-22.3	38.41	54	-15.59	-	-	259	110	V

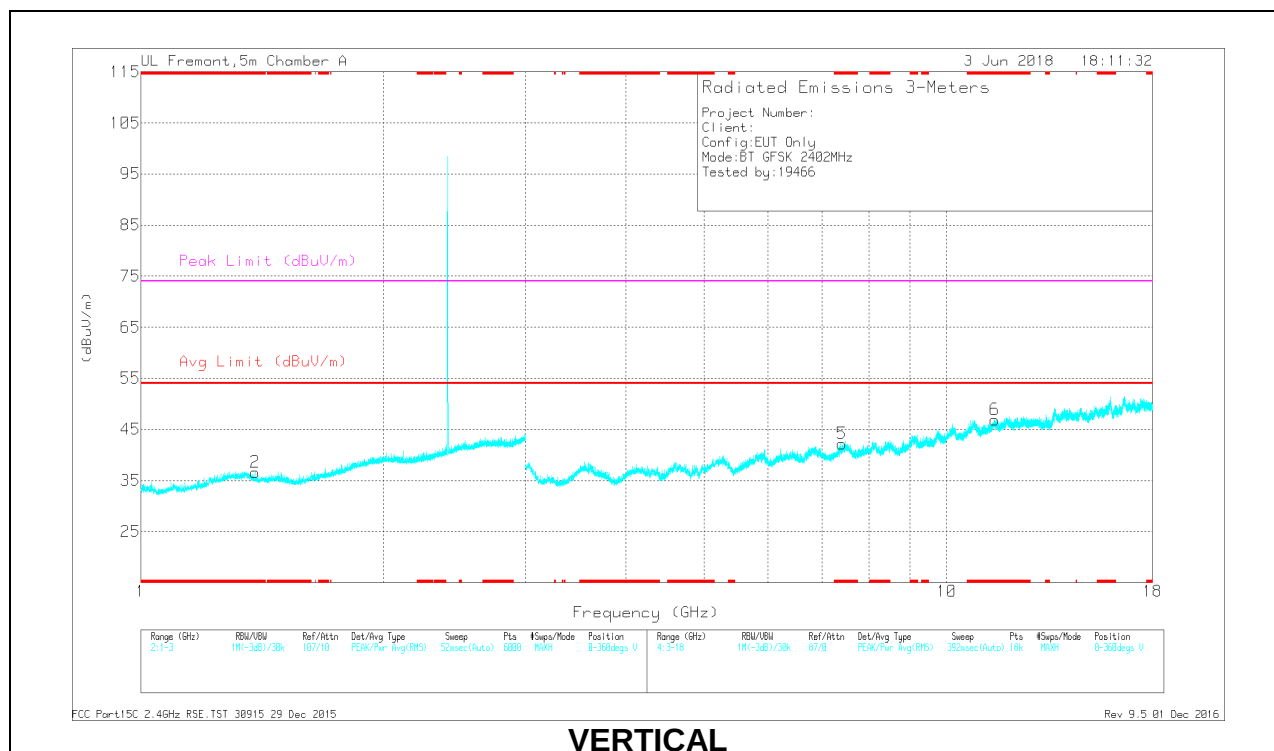
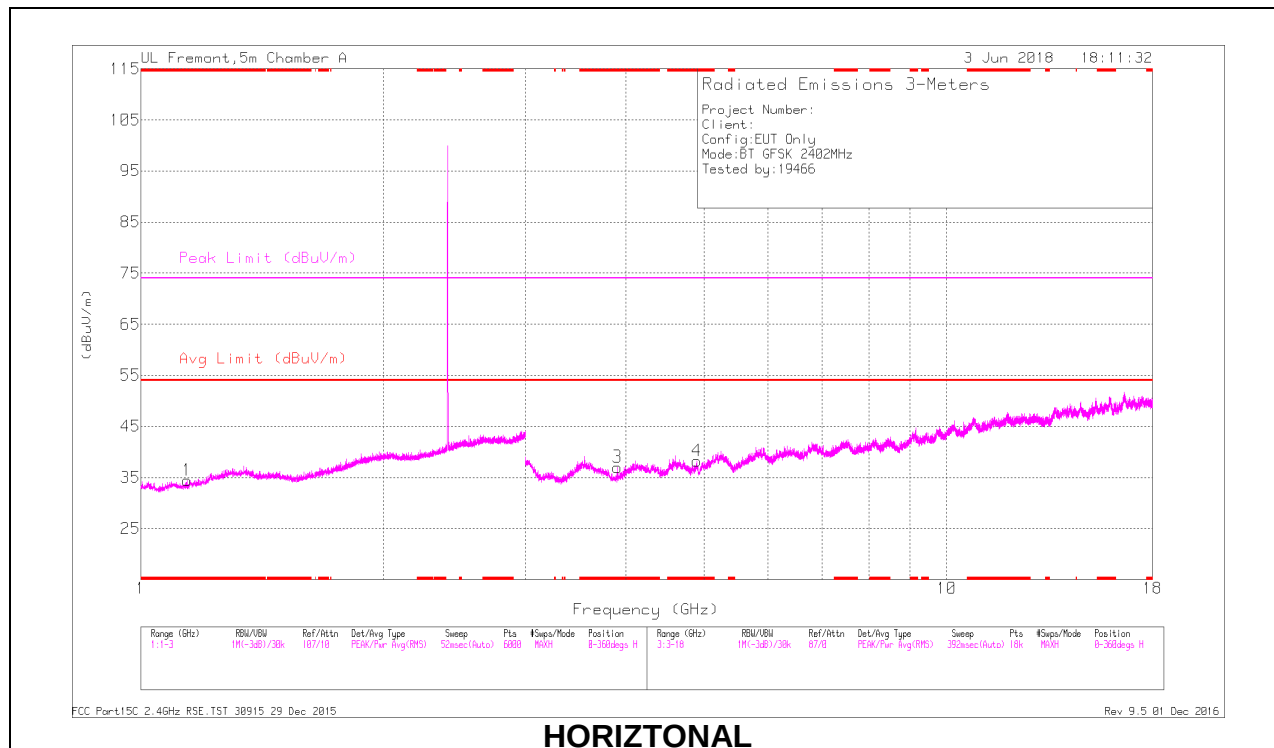
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

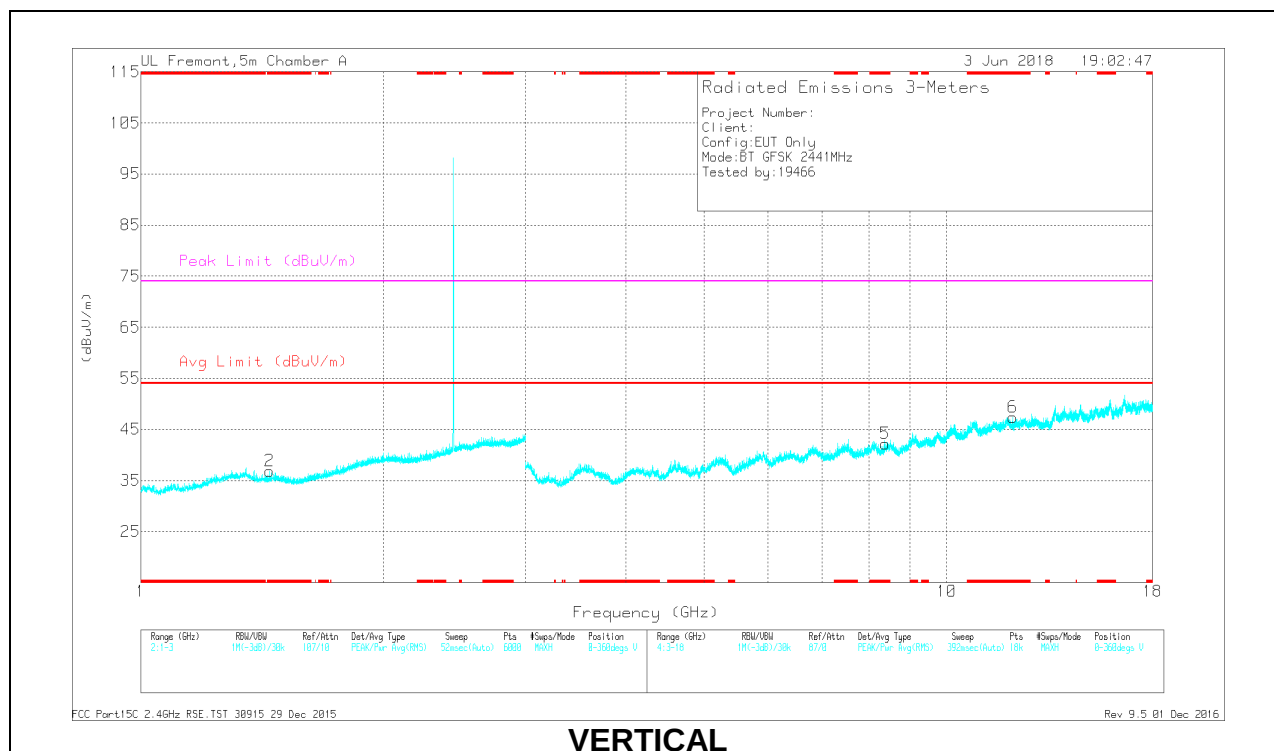
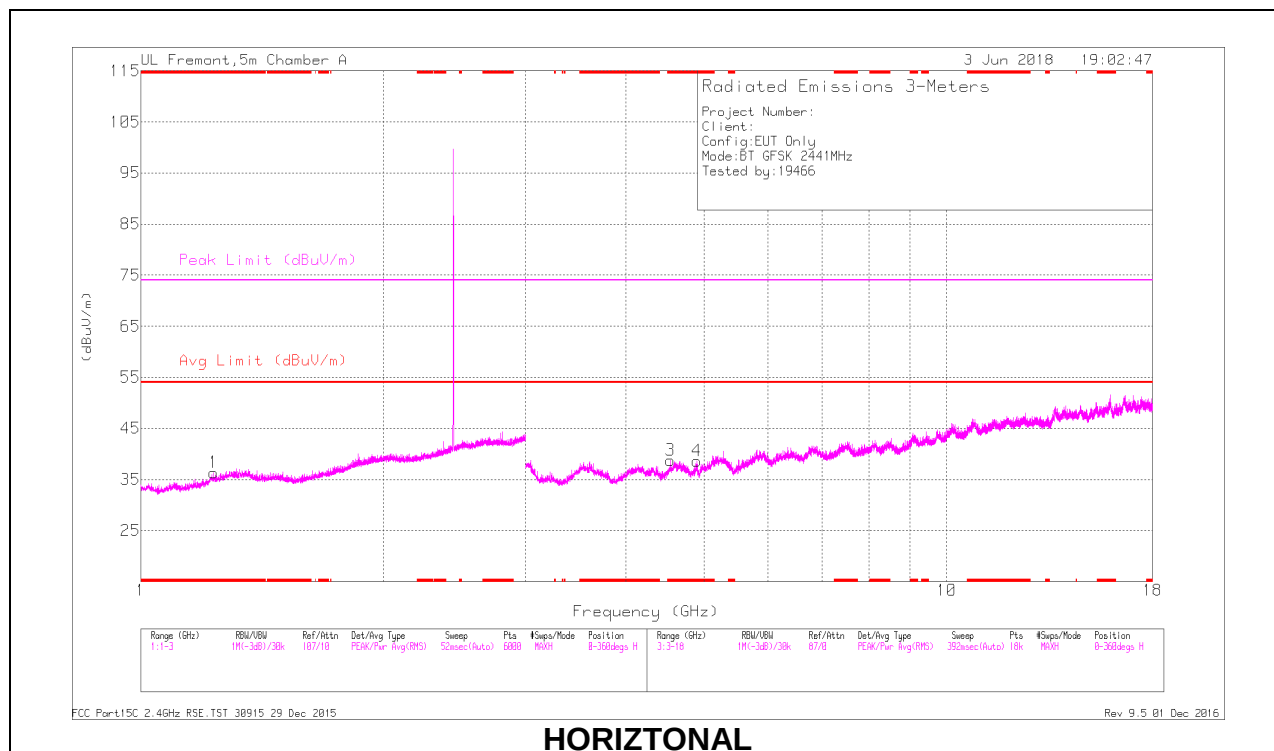
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.142	36.51	PKFH	27.6	-24	40.11	-	-	74	-33.89	252	221	H
	* 1.143	24.23	VA1T	27.6	-24	27.83	54	-26.17	-	-	252	221	H
2	* 1.386	36.05	PKFH	28.9	-23.6	41.35	-	-	74	-32.65	204	386	V
	* 1.387	24.22	VA1T	28.8	-23.6	29.42	54	-24.58	-	-	204	386	V
3	* 3.898	37.42	PKFH	33.1	-28.8	41.72	-	-	74	-32.28	52	252	H
	* 3.899	25.37	VA1T	33.1	-28.8	29.67	54	-24.33	-	-	52	252	H
4	* 4.901	36.21	PKFH	34.1	-26.7	43.61	-	-	74	-30.39	56	154	H
	* 4.899	24.47	VA1T	34.1	-26.7	31.87	54	-22.13	-	-	56	154	H
5	* 7.408	33.19	PKFH	35.6	-21.6	47.19	-	-	74	-26.81	193	193	V
	* 7.407	21.44	VA1T	35.6	-21.6	35.44	54	-18.56	-	-	193	193	V
6	* 11.464	32.77	PKFH	38.3	-17.9	53.17	-	-	74	-20.83	92	191	V
	* 11.464	20.47	VA1T	38.3	-17.9	40.87	54	-13.13	-	-	92	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

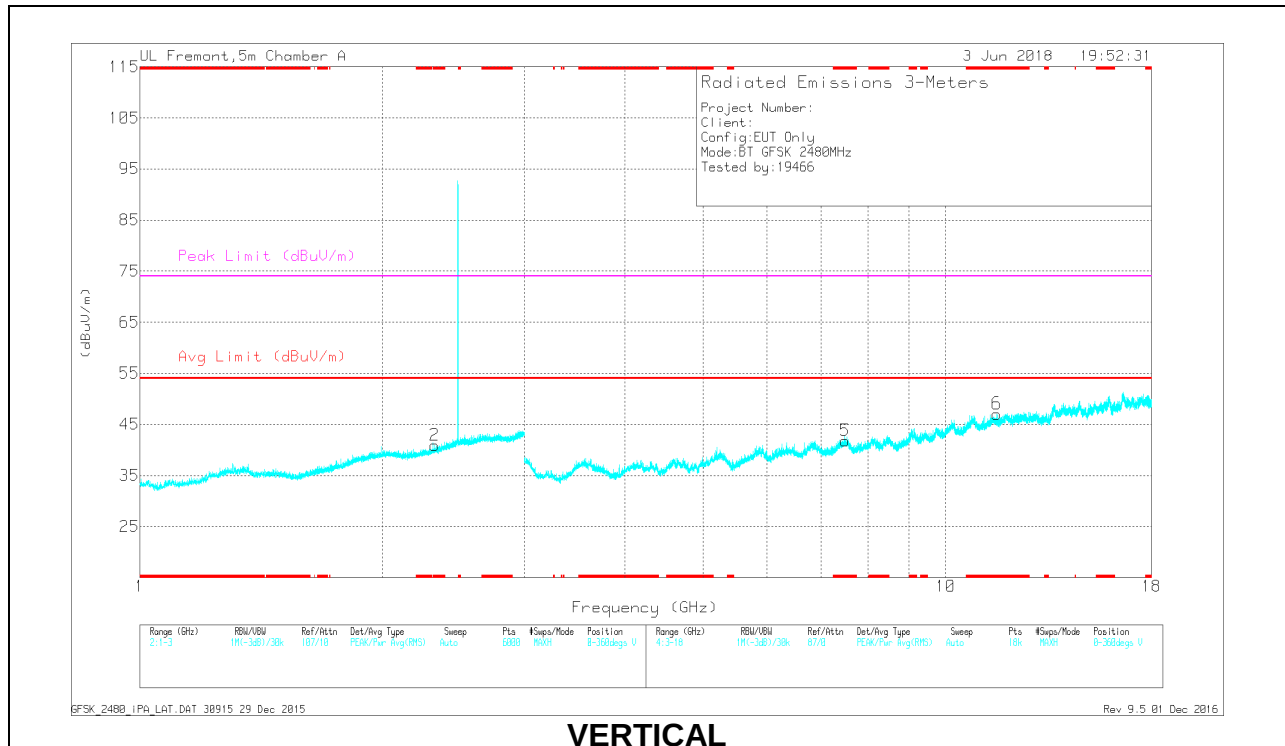
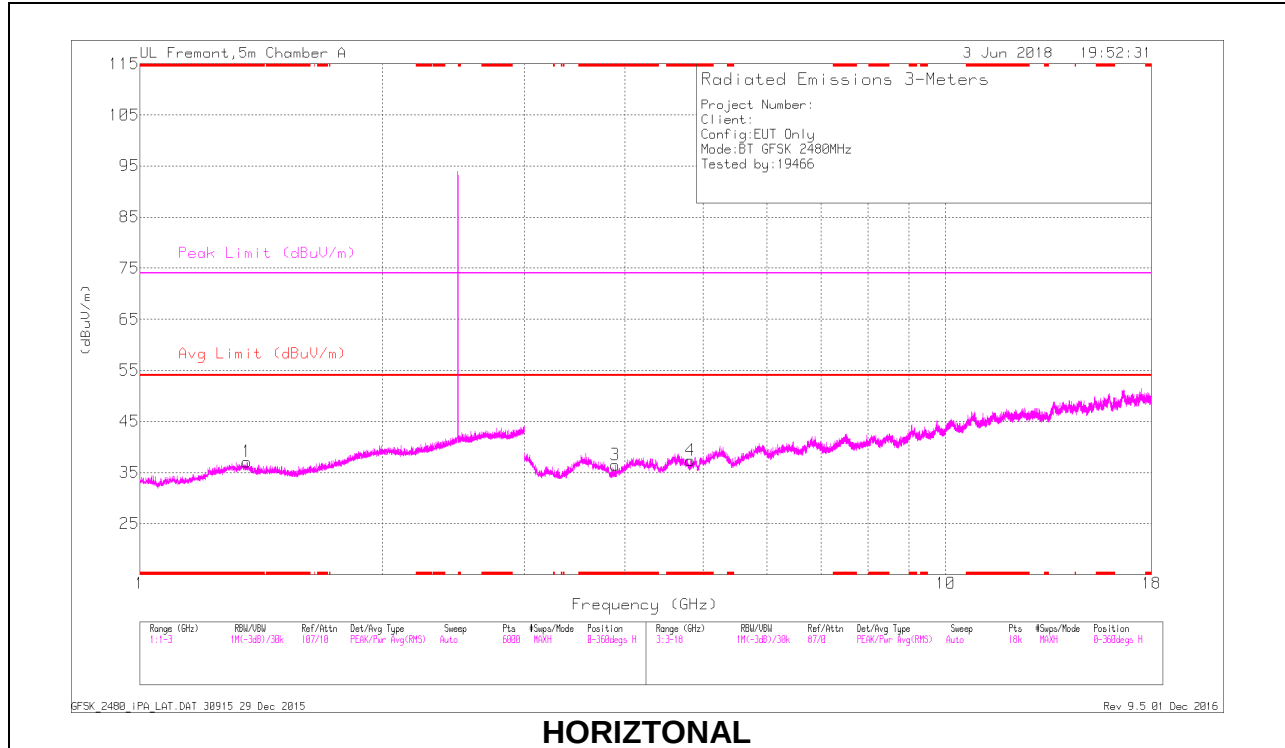
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.231	36.44	PKFH	28.8	-23.7	41.54	-	-	74	-32.46	278	230	H
	* 1.23	24.26	VA1T	28.8	-23.7	29.36	54	-24.64	-	-	278	230	H
2	* 1.443	36.13	PKFH	28.7	-23.4	41.43	-	-	74	-32.57	196	316	V
	* 1.445	24.16	VA1T	28.7	-23.4	29.46	54	-24.54	-	-	196	316	V
3	* 4.542	36.56	PKFH	34	-26.4	44.16	-	-	74	-29.84	75	121	H
	* 4.542	24.73	VA1T	34	-26.4	32.33	54	-21.67	-	-	75	121	H
4	* 4.899	35.7	PKFH	34.1	-26.7	43.1	-	-	74	-30.9	17	288	H
	* 4.9	24.32	VA1T	34.1	-26.7	31.72	54	-22.28	-	-	17	288	H
5	* 8.382	33.67	PKFH	35.8	-21.3	48.17	-	-	74	-25.83	167	214	V
	* 8.381	21.8	VA1T	35.8	-21.3	36.3	54	-17.7	-	-	167	214	V
6	* 12.077	32.99	PKFH	38.9	-18.7	53.19	-	-	74	-20.81	49	247	V
	* 12.077	20.21	VA1T	38.9	-18.7	40.41	54	-13.59	-	-	49	247	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	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.359	36.35	PKFH	29.4	-23.6	42.15	-	-	74	-31.85	10	178	H
	* 1.356	24.44	VA1T	29.4	-23.7	30.14	54	-23.86	-	-	10	178	H
2	* 2.32	37.3	PKFH	31.5	-23.5	45.3	-	-	74	-28.7	226	205	V
	* 2.323	25.51	VA1T	31.6	-23.5	33.61	54	-20.39	-	-	226	205	V
3	* 3.892	36.24	PKFH	33.1	-28.8	40.54	-	-	74	-33.46	121	274	H
	* 3.894	25.23	VA1T	33.1	-28.8	29.53	54	-24.47	-	-	121	274	H
4	* 4.824	35.82	PKFH	34.2	-26.8	43.22	-	-	74	-30.78	161	240	H
	* 4.822	23.9	VA1T	34.2	-26.9	31.2	54	-22.8	-	-	161	240	H
5	* 7.506	33.47	PKFH	35.7	-21.1	48.07	-	-	74	-25.93	251	105	V
	* 7.504	21.61	VA1T	35.7	-21.1	36.21	54	-17.79	-	-	251	105	V
6	* 11.574	33.05	PKFH	38.4	-18.7	52.75	-	-	74	-21.25	201	176	V
	* 11.573	20.63	VA1T	38.4	-18.7	40.33	54	-13.67	-	-	201	176	V

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

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

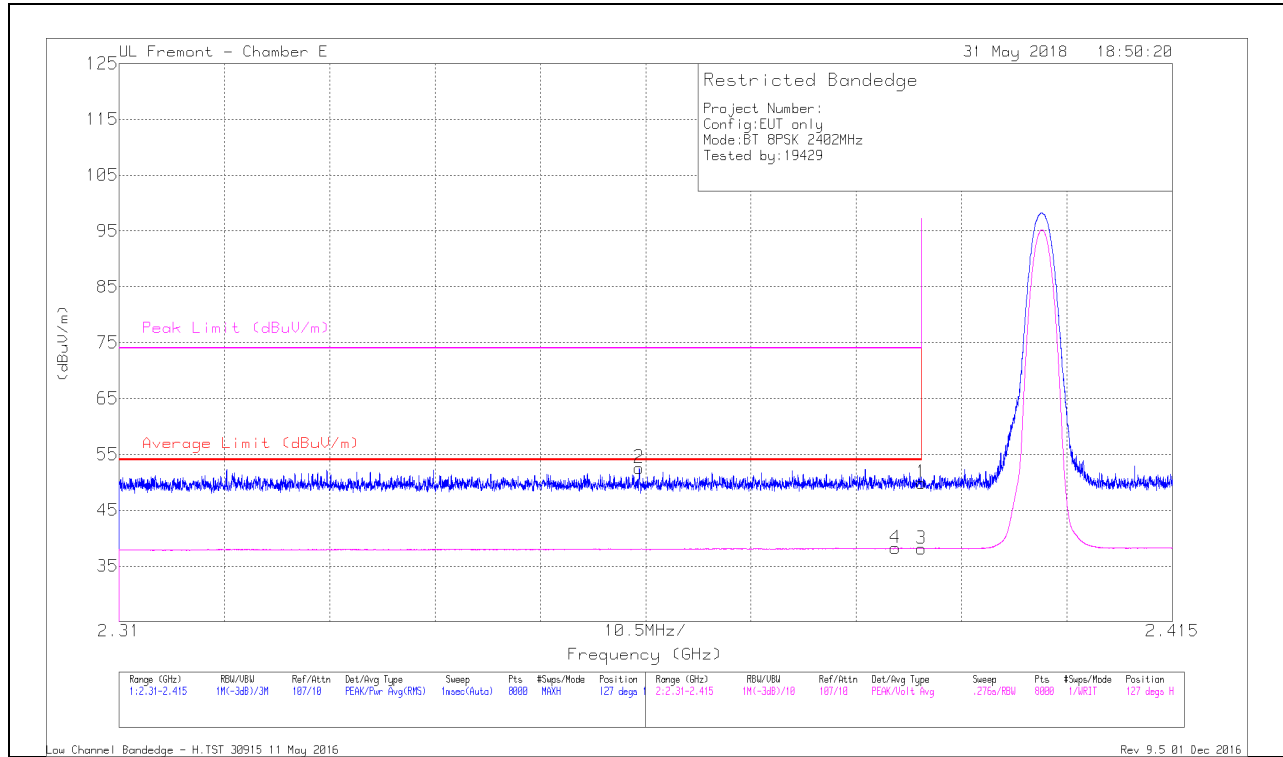
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.4. LOW POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



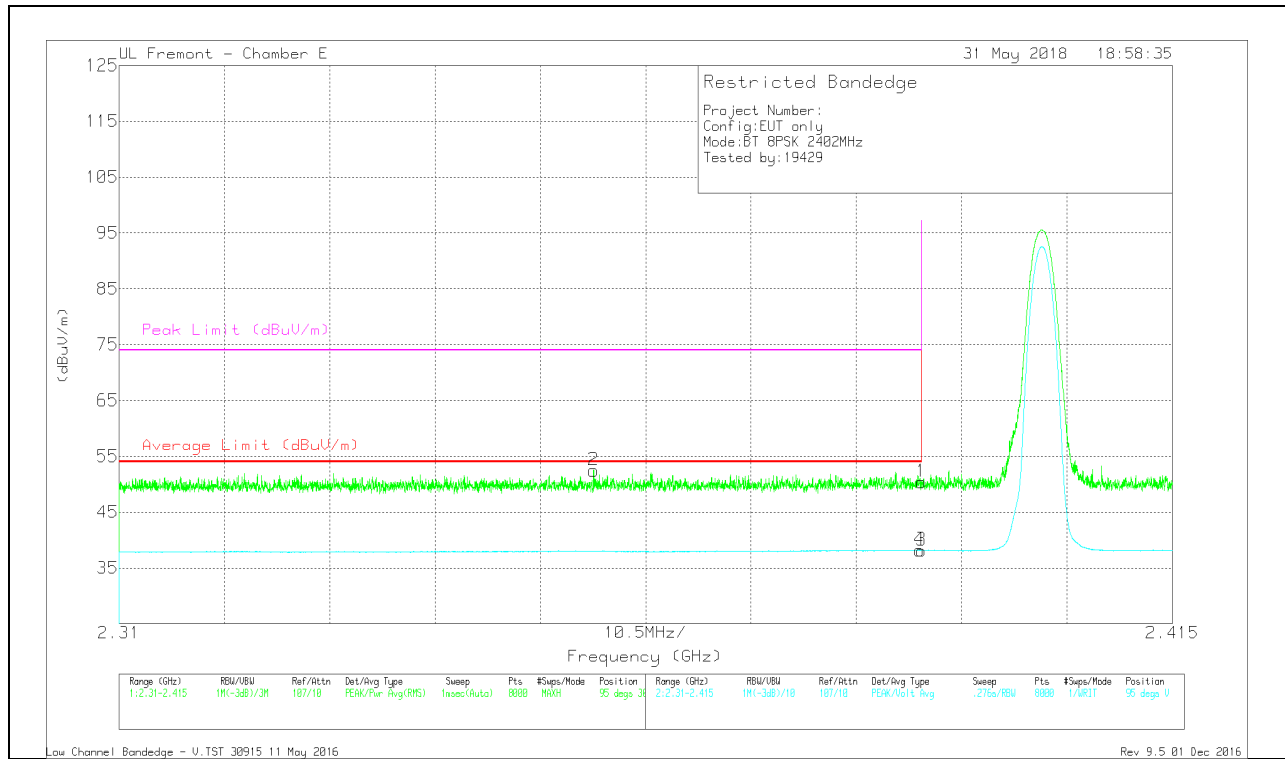
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb I/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.362	43.35	Pk	31.9	-22.7	52.55	-	-	74	-21.45	127	103	H
4	* 2.387	28.9	VA1T	31.9	-22.6	38.2	54	-15.8	-	-	127	103	H
1	* 2.39	40.5	Pk	32	-22.6	49.9	-	-	74	-24.1	127	103	H
3	* 2.39	28.7	VA1T	32	-22.6	38.1	54	-15.9	-	-	127	103	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 T346 (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	Pk	32	-22.6	50.4	-	-	74	-23.6	95	307	V
2	* 2.357	43.28	Pk	31.9	-22.7	52.48	-	-	74	-21.52	95	307	V
3	* 2.39	28.75	VA1T	32	-22.6	38.15	54	-15.85	-	-	95	306	V
4	* 2.39	28.79	VA1T	32	-22.6	38.19	54	-15.81	-	-	95	306	V

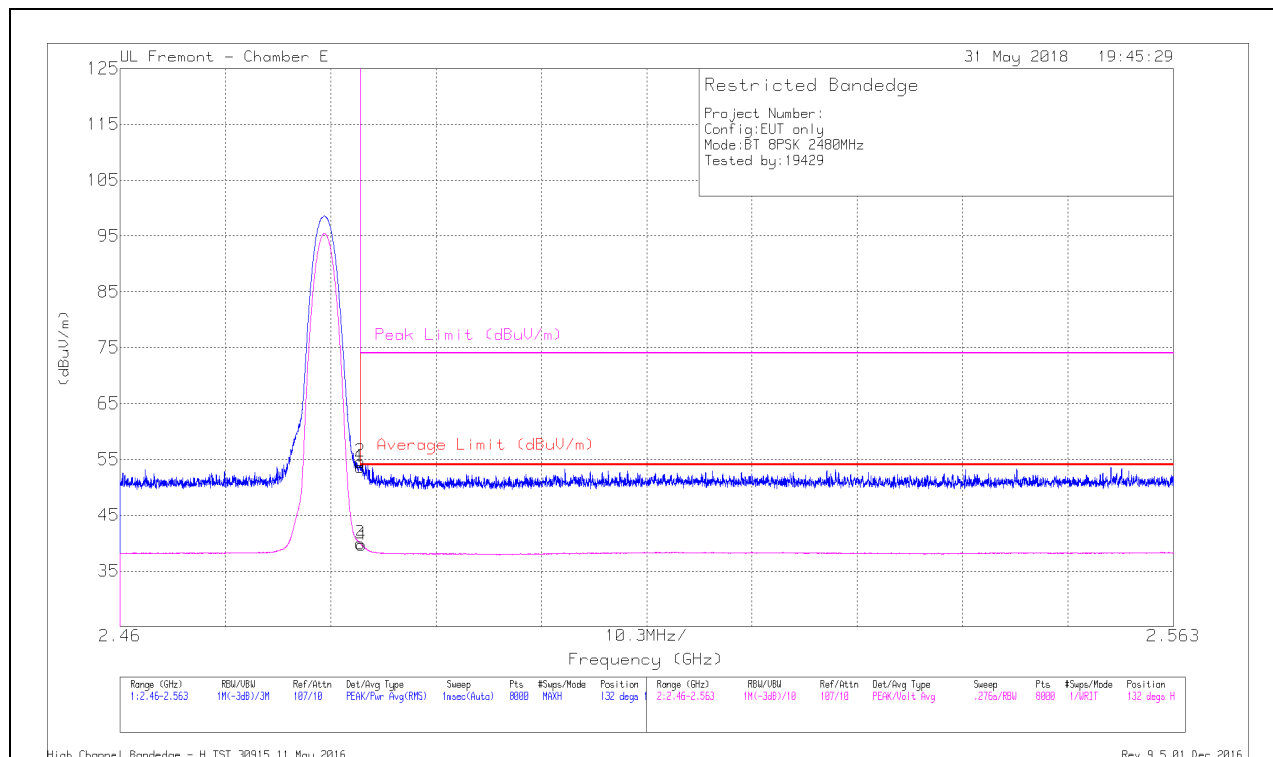
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



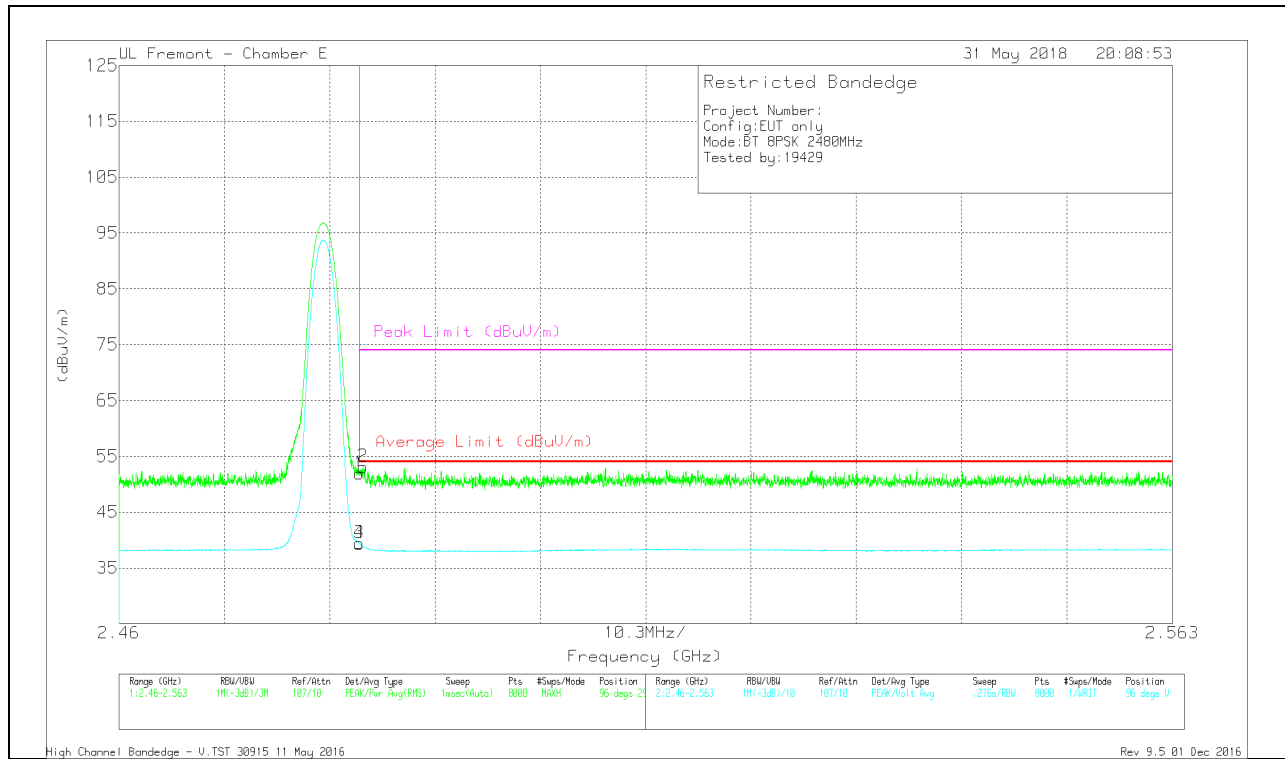
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T346 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.83	Pk	32.1	-22.3	53.63	-	-	74	-20.37	132	128	H
2	* 2.484	44.76	Pk	32.1	-22.3	54.56	-	-	74	-19.44	132	128	H
3	* 2.484	30.15	VA1T	32.1	-22.3	39.95	54	-14.05	-	-	132	128	H
4	* 2.484	29.91	VA1T	32.1	-22.3	39.71	54	-14.29	-	-	132	128	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 T346 (dB/m)	Amp/Cb I/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	42.09	Pk	32.1	-22.3	51.89	-	-	74	-22.11	96	290	V
2	* 2.484	43.3	Pk	32.1	-22.3	53.1	-	-	74	-20.9	96	290	V
3	* 2.484	29.61	VA1T	32.1	-22.3	39.41	54	-14.59	-	-	96	290	V
4	* 2.484	29.62	VA1T	32.1	-22.3	39.42	54	-14.58	-	-	96	290	V

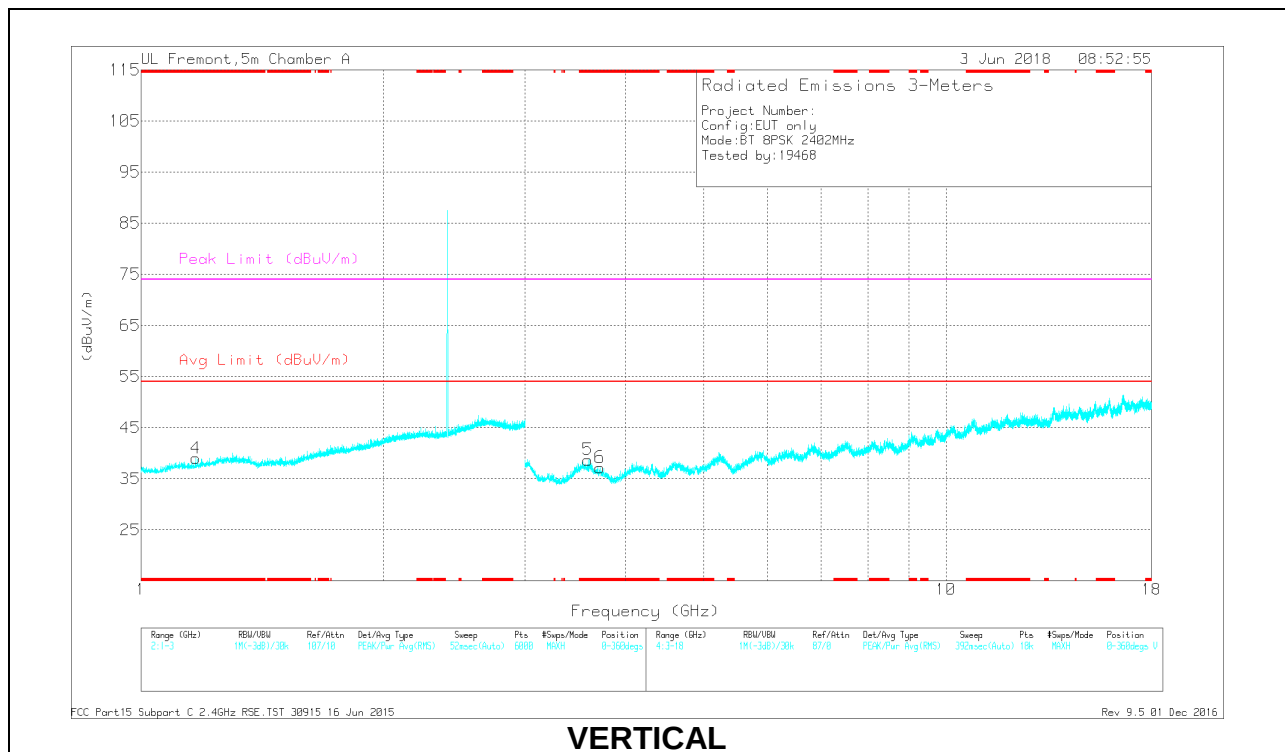
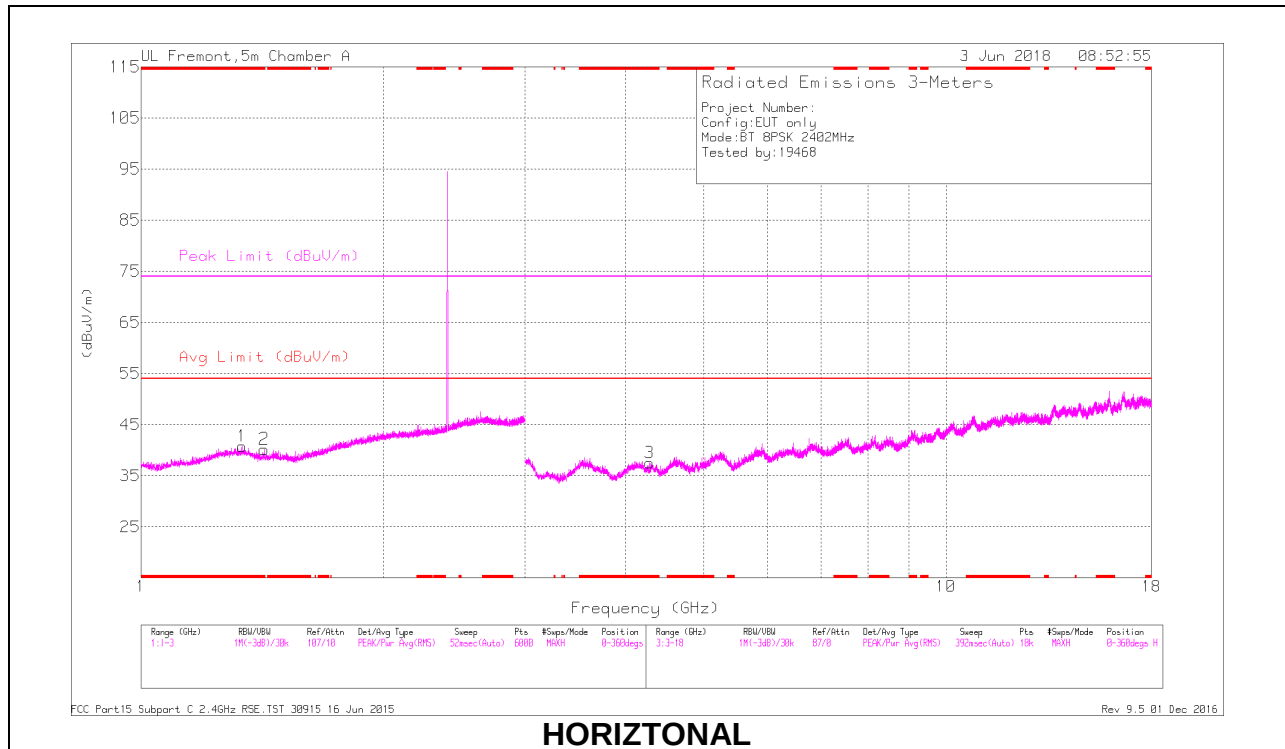
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

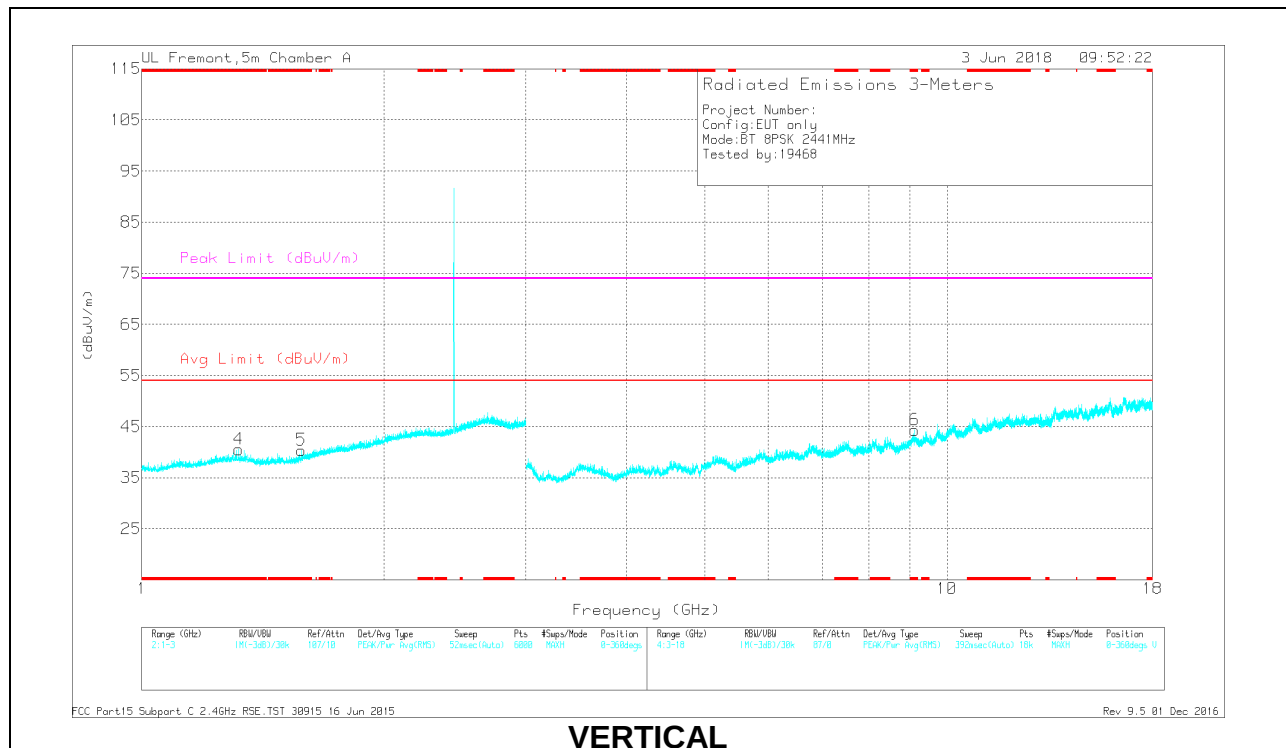
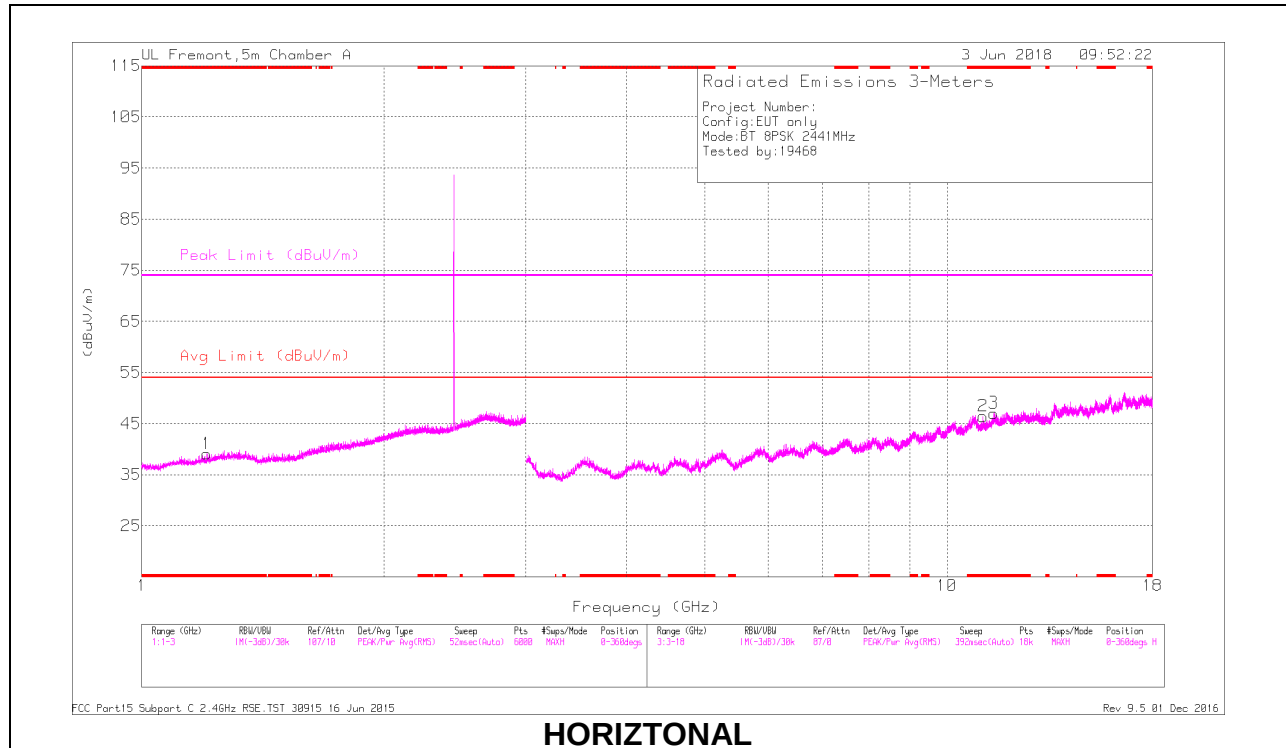
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.328	42.1	PKFH	29.5	-24.3	47.3	-	-	74	-26.7	350	239	H
	* 1.342	28.91	VA1T	29.5	-24.3	34.11	54	-19.89	-	-	350	239	H
2	* 1.459	39.88	PKFH	28.7	-24.1	44.48	-	-	74	-29.52	306	262	H
	* 1.463	28.06	VA1T	28.7	-24.1	32.66	54	-21.34	-	-	306	262	H
4	* 1.168	41.47	PKFH	27.8	-24.5	44.77	-	-	74	-29.23	300	367	V
	* 1.164	28.79	VA1T	27.8	-24.5	32.09	54	-21.91	-	-	300	367	V
3	* 4.275	37.1	PKFH	33.5	-27.2	43.4	-	-	74	-30.6	9	372	H
	* 4.295	24.6	VA1T	33.6	-26.9	31.3	54	-22.7	-	-	9	372	H
5	* 3.589	37.7	PKFH	33	-26.8	43.9	-	-	74	-30.1	346	286	V
	* 3.592	25.97	VA1T	33	-26.8	32.17	54	-21.83	-	-	346	286	V
6	* 3.708	38.34	PKFH	33.1	-27.8	43.64	-	-	74	-30.36	38	136	V
	* 3.726	25.34	VA1T	33.1	-28	30.44	54	-23.56	-	-	38	136	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

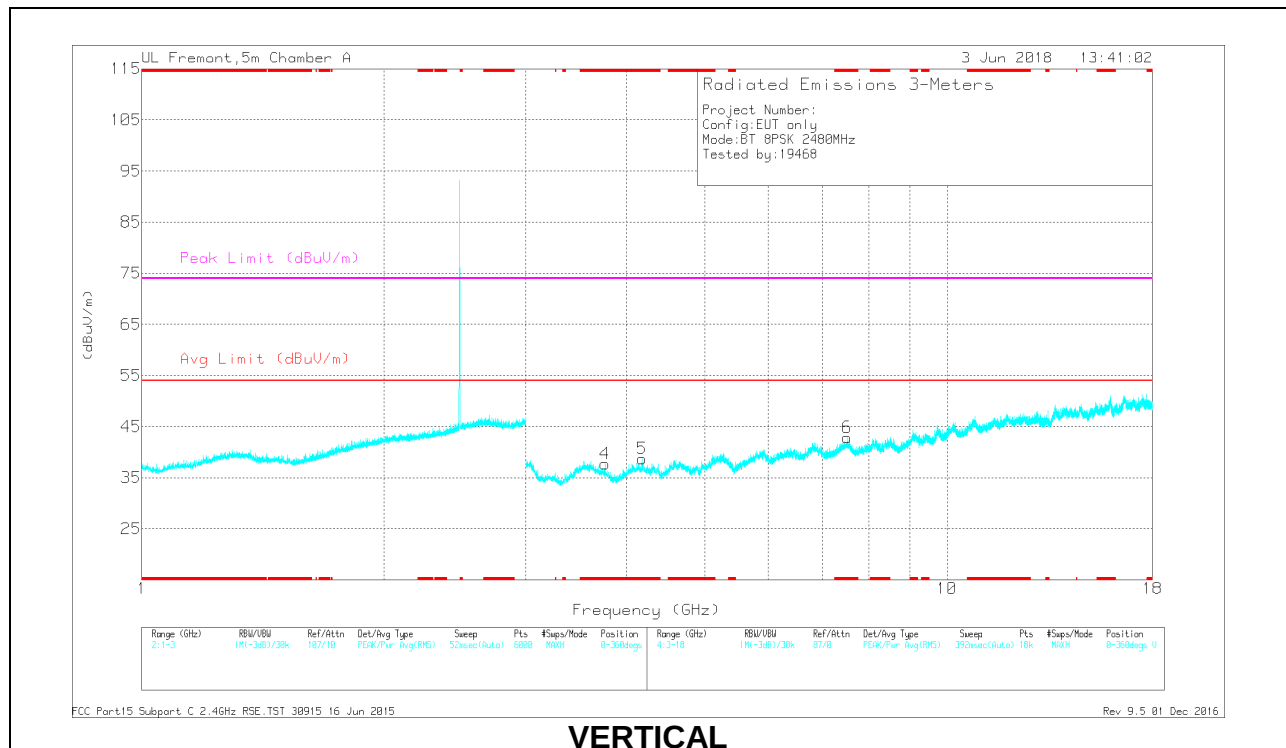
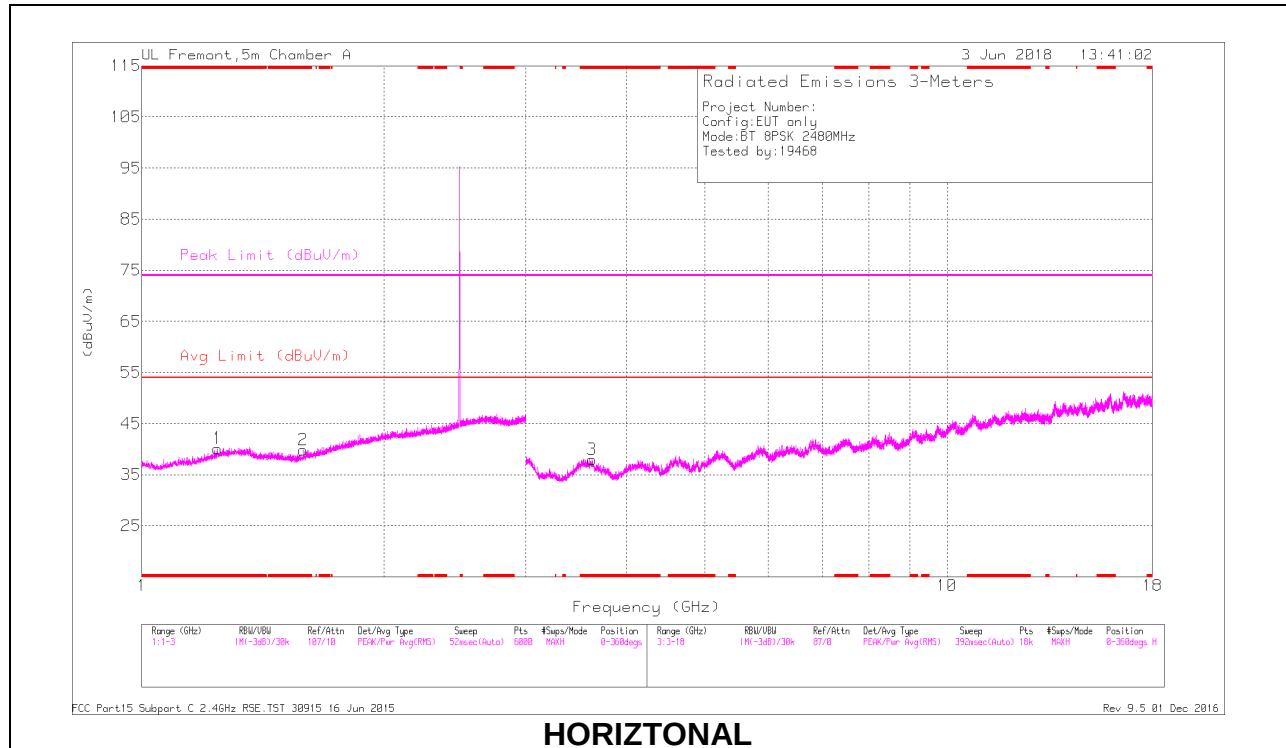
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.198	41.17	PKFH	28.2	-24.4	44.97	-	-	74	-29.03	338	210	H
	* 1.196	29.08	VA1T	28.2	-24.4	32.88	54	-21.12	-	-	338	210	H
4	* 1.32	40.05	PKFH	29.5	-24.3	45.25	-	-	74	-28.75	25	180	V
	* 1.311	28.12	VA1T	29.5	-24.3	33.32	54	-20.68	-	-	25	180	V
5	* 1.581	40.8	PKFH	28	-23.6	45.2	-	-	74	-28.8	0	193	V
	* 1.585	28.9	VA1T	28.1	-23.6	33.4	54	-20.6	-	-	0	193	V
2	* 11.078	33.22	PKFH	37.9	-19	52.12	-	-	74	-21.88	284	393	H
	* 11.087	20.63	VA1T	37.9	-19	39.53	54	-14.47	-	-	284	393	H
3	* 11.438	32.43	PKFH	38.2	-18	52.63	-	-	74	-21.37	309	201	H
	* 11.447	20.48	VA1T	38.2	-17.9	40.78	54	-13.22	-	-	309	201	H
6	* 9.118	33.46	PKFH	36.4	-20	49.86	-	-	74	-24.14	226	112	V
	* 9.114	21.11	VA1T	36.3	-20.1	37.31	54	-16.69	-	-	226	112	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	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.236	40.28	PKFH	28.9	-24.4	44.78	-	-	74	-29.22	169	142	H
	* 1.246	28.15	VA1T	29	-24.3	32.85	54	-21.15	-	-	169	142	H
2	* 1.596	40.56	PKFH	28.2	-23.5	45.26	-	-	74	-28.74	185	290	H
	* 1.595	28.46	VA1T	28.2	-23.5	33.16	54	-20.84	-	-	185	290	H
3	* 3.629	37.77	PKFH	33	-27.5	43.27	-	-	74	-30.73	299	216	H
	* 3.63	25.49	VA1T	33	-27.5	30.99	54	-23.01	-	-	299	216	H
4	* 3.76	37.71	PKFH	33.2	-28.3	42.61	-	-	74	-31.39	135	225	V
	* 3.771	25.36	VA1T	33.2	-28.4	30.16	54	-23.84	-	-	135	225	V
5	* 4.179	37.5	PKFH	33.4	-26.7	44.2	-	-	74	-29.8	277	312	V
	* 4.19	24.71	VA1T	33.4	-26.8	31.31	54	-22.69	-	-	277	312	V
6	* 7.507	33.84	PKFH	35.7	-21.1	48.44	-	-	74	-25.56	249	142	V
	* 7.506	21.51	VA1T	35.7	-21.1	36.11	54	-17.89	-	-	249	142	V

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

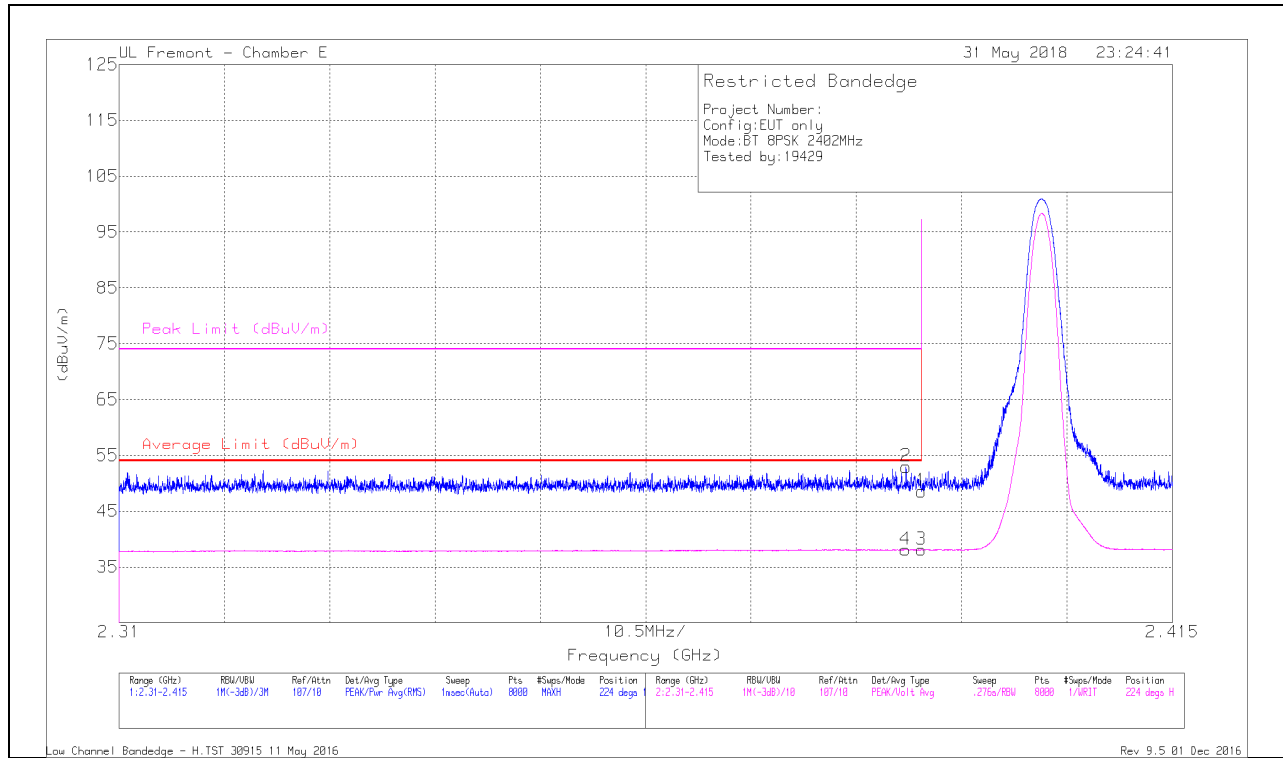
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



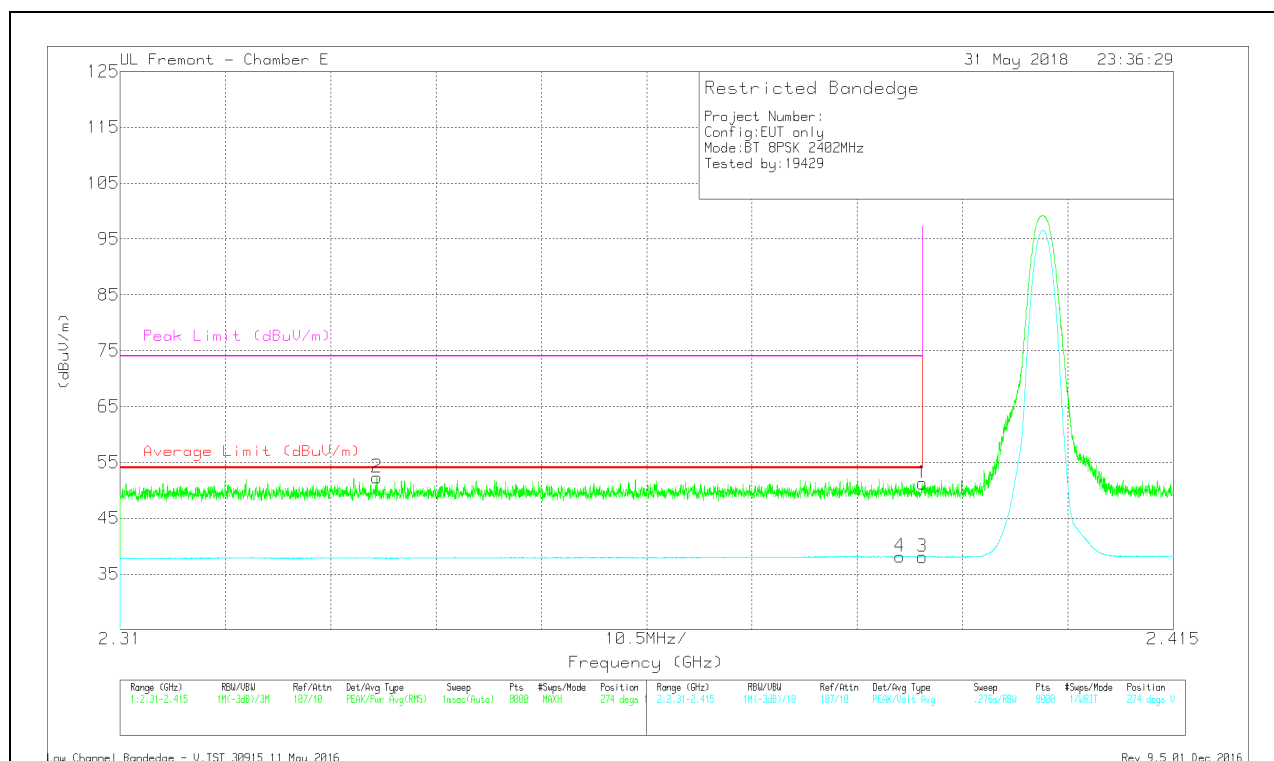
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.16	Pk	32	-22.6	48.56	-	-	74	-25.44	224	153	H
2	* 2.388	43.66	Pk	31.9	-22.6	52.96	-	-	74	-21.04	224	153	H
3	* 2.39	28.7	VA1T	32	-22.6	38.1	54	-15.9	-	-	224	153	H
4	* 2.388	28.82	VA1T	31.9	-22.6	38.12	54	-15.88	-	-	224	153	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 T346 (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	41.85	Pk	32	-22.6	51.25	-	-	74	-22.75	274	117	V
2	* 2.336	43.23	Pk	31.8	-22.7	52.33	-	-	74	-21.67	274	117	V
3	* 2.39	28.67	VA1T	32	-22.6	38.07	54	-15.93	-	-	274	117	V
4	* 2.388	28.84	VA1T	31.9	-22.6	38.14	54	-15.86	-	-	274	117	V

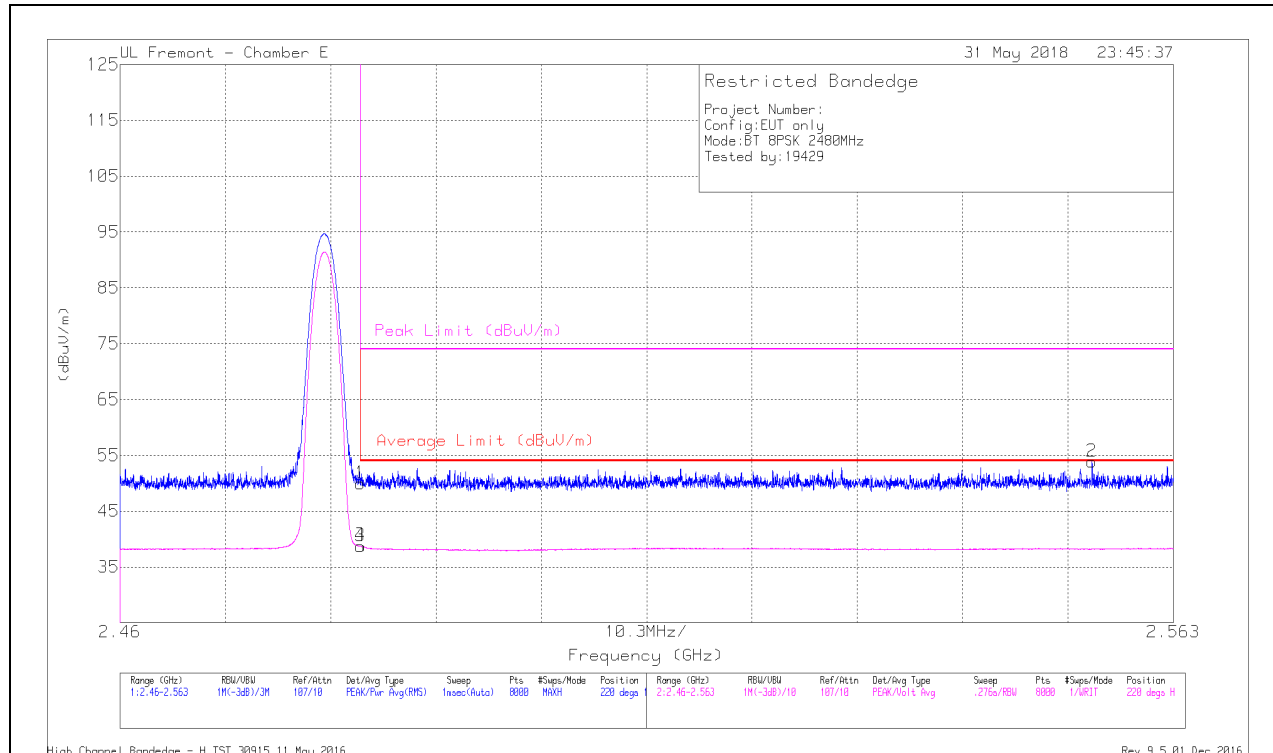
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



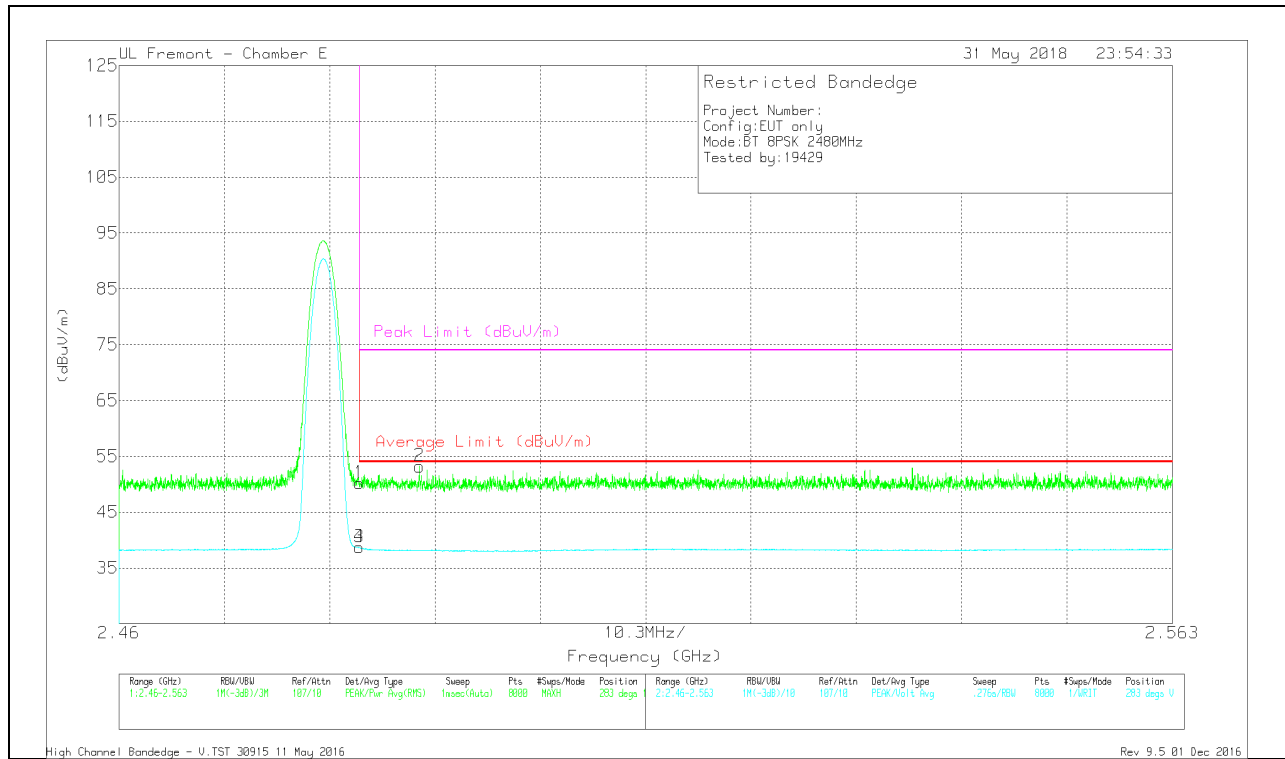
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb I/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.16	Pk	32.1	-22.3	49.96	-	-	74	-24.04	220	170	H
3	* 2.484	28.94	VA1T	32.1	-22.3	38.74	54	-15.26	-	-	220	170	H
4	* 2.484	28.94	VA1T	32.1	-22.3	38.74	54	-15.26	-	-	220	170	H
2	2.555	44.05	Pk	32.1	-22.3	53.85	-	-	74	-20.15	220	170	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 T346 (dB/m)	Amp/Cb I/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	40.38	Pk	32.1	-22.3	50.18	-	-	74	-23.82	283	109	V
2	* 2.489	43.51	Pk	32.1	-22.4	53.21	-	-	74	-20.79	283	109	V
3	* 2.484	28.89	VA1T	32.1	-22.3	38.69	54	-15.31	-	-	283	109	V
4	* 2.484	28.89	VA1T	32.1	-22.3	38.69	54	-15.31	-	-	283	109	V

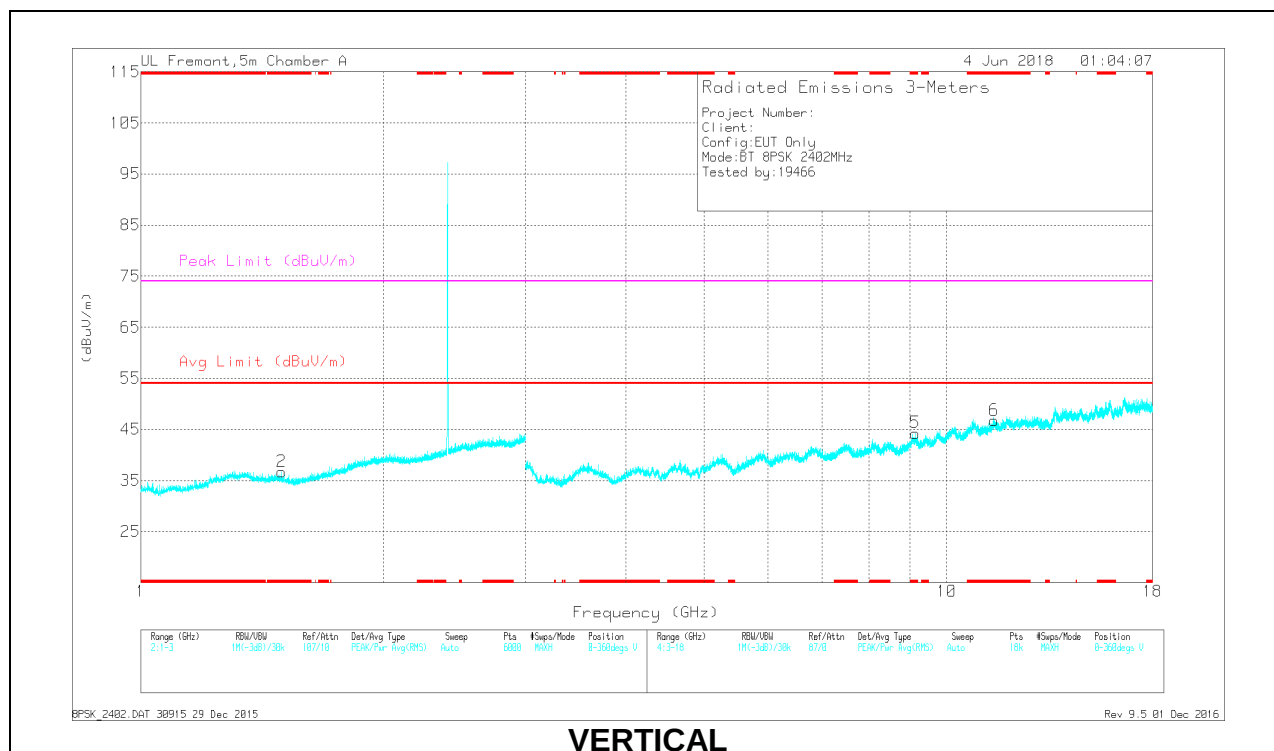
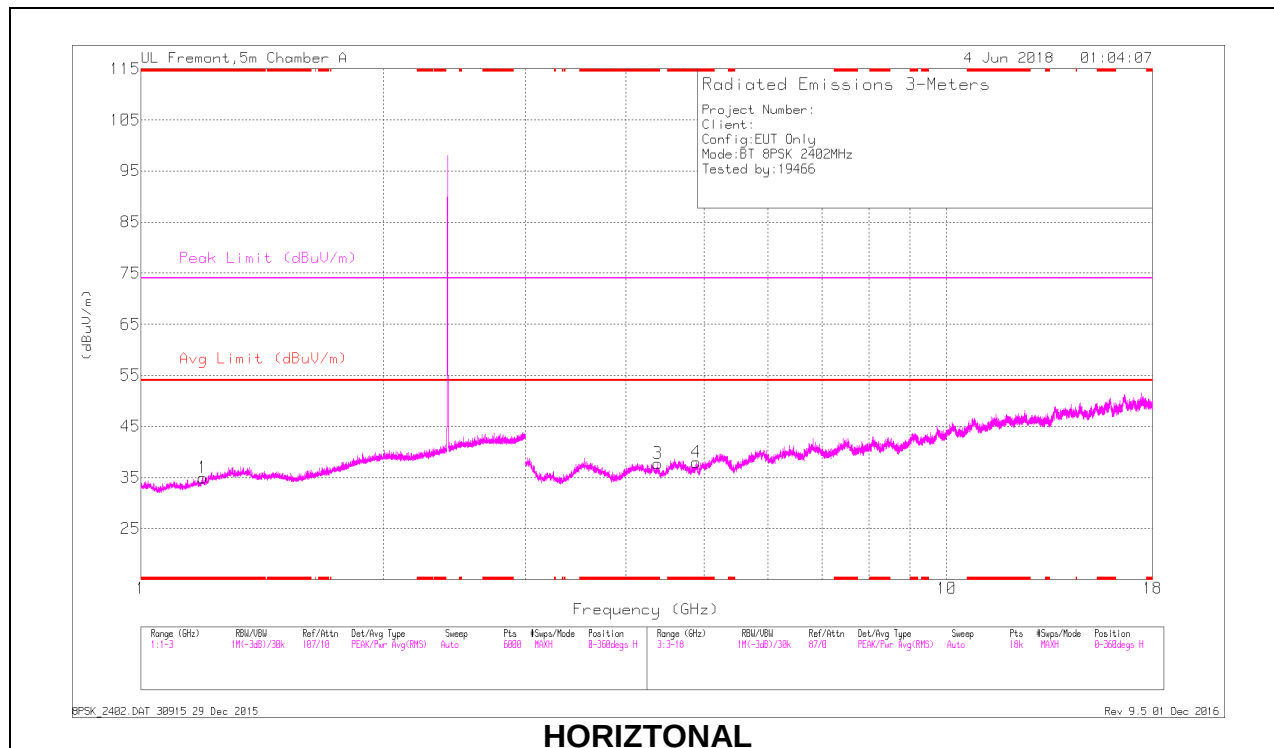
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

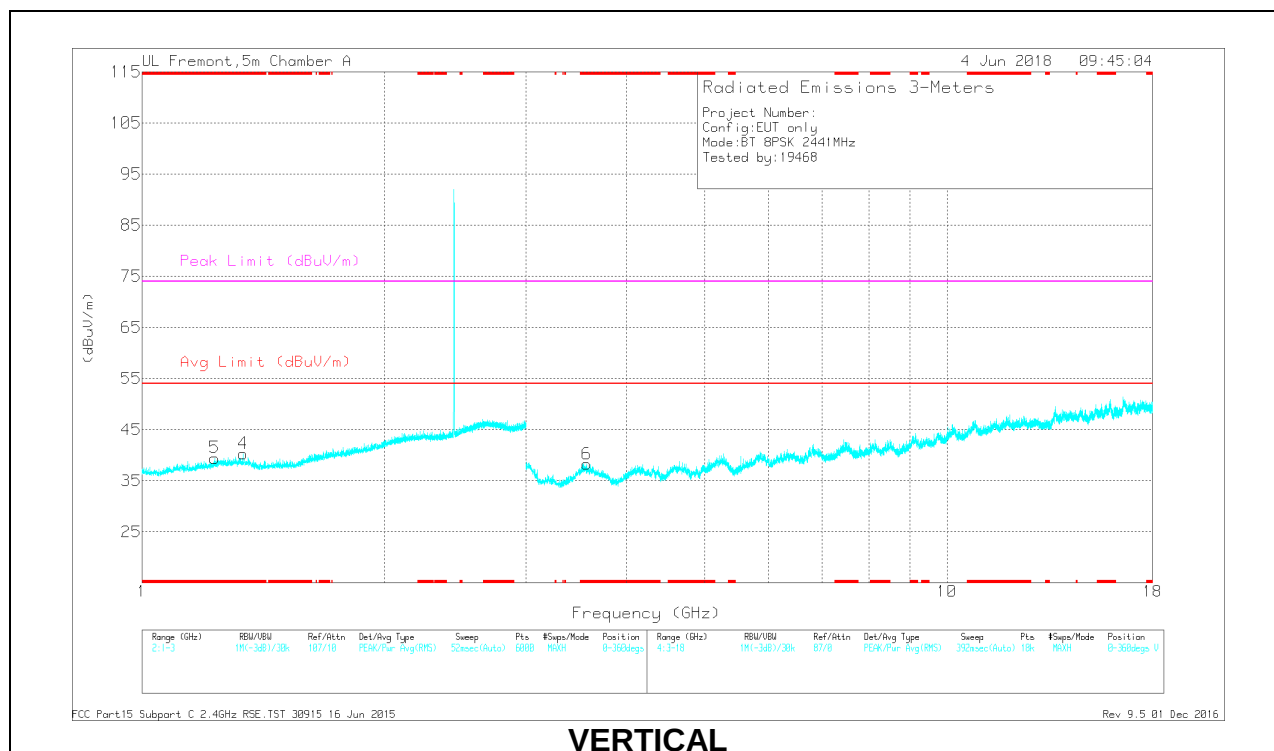
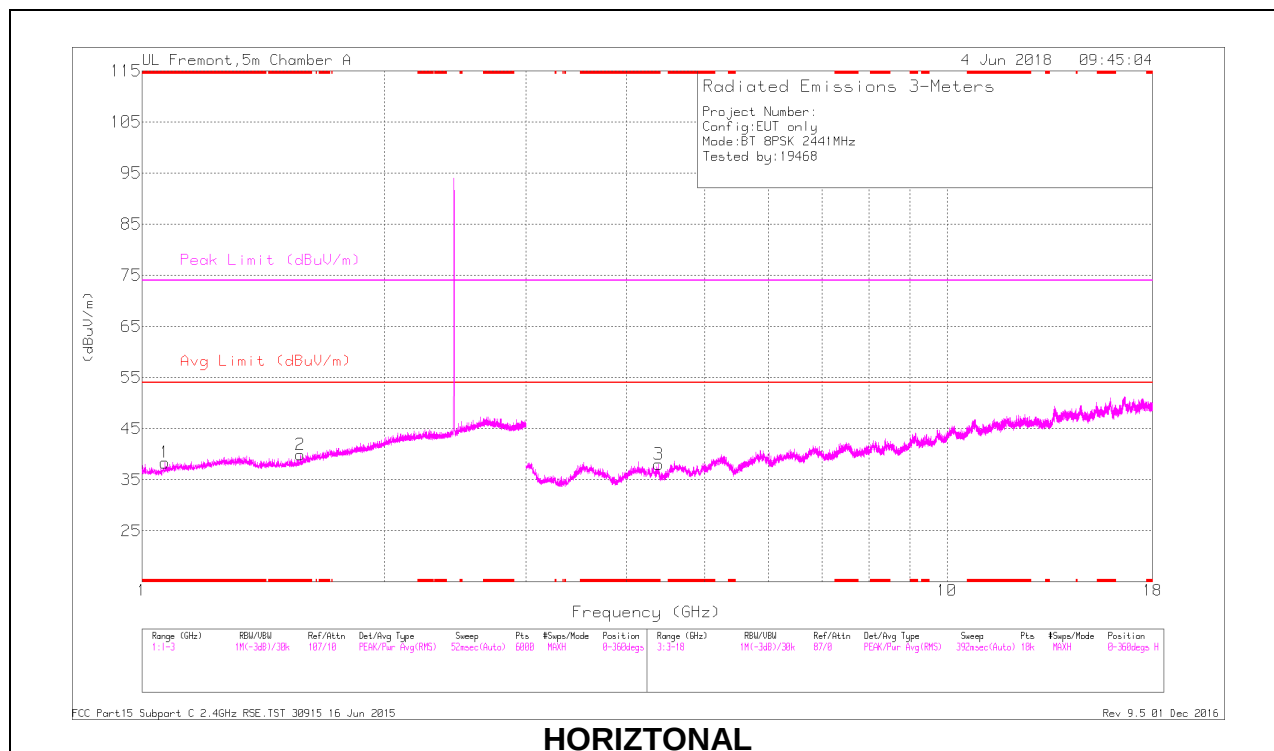
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.193	36.01	PKFH	28.1	-23.7	40.41	-	-	74	-33.59	55	219	H
	* 1.195	24.01	VA1T	28.1	-23.8	28.31	54	-25.69	-	-	55	219	H
2	* 1.494	36.27	PKFH	28.4	-23.4	41.27	-	-	74	-32.73	37	166	V
	* 1.496	24.38	VA1T	28.4	-23.4	29.38	54	-24.62	-	-	37	166	V
3	* 4.379	37.84	PKFH	33.7	-27.7	43.84	-	-	74	-30.16	57	165	H
	* 4.377	25.35	VA1T	33.7	-27.7	31.35	54	-22.65	-	-	57	165	H
4	* 4.883	36.1	PKFH	34.1	-26.7	43.5	-	-	74	-30.5	94	115	H
	* 4.884	24.29	VA1T	34.1	-26.7	31.69	54	-22.31	-	-	94	115	H
5	* 9.132	32.88	PKFH	36.4	-19.7	49.58	-	-	74	-24.42	198	155	V
	* 9.132	21.11	VA1T	36.4	-19.7	37.81	54	-16.19	-	-	198	155	V
6	* 11.451	32.29	PKFH	38.2	-17.9	52.59	-	-	74	-21.41	208	203	V
	* 11.45	20.42	VA1T	38.2	-17.9	40.72	54	-13.28	-	-	208	203	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

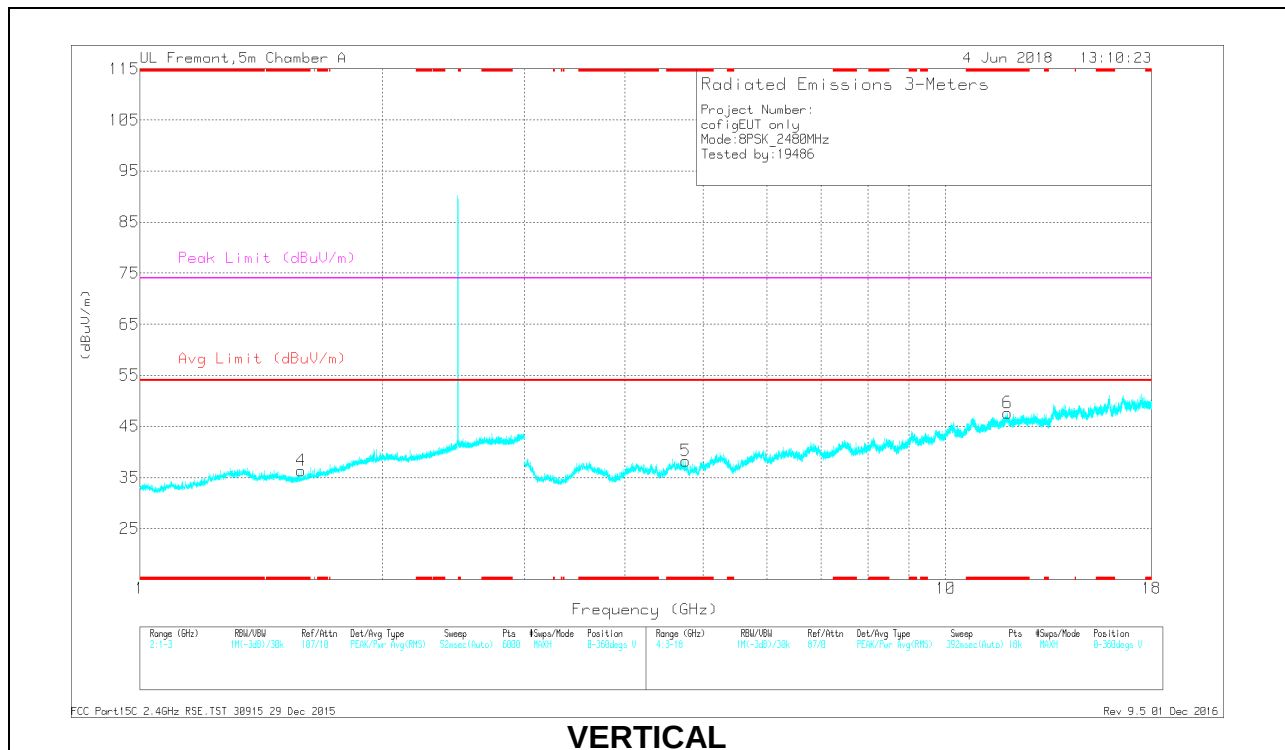
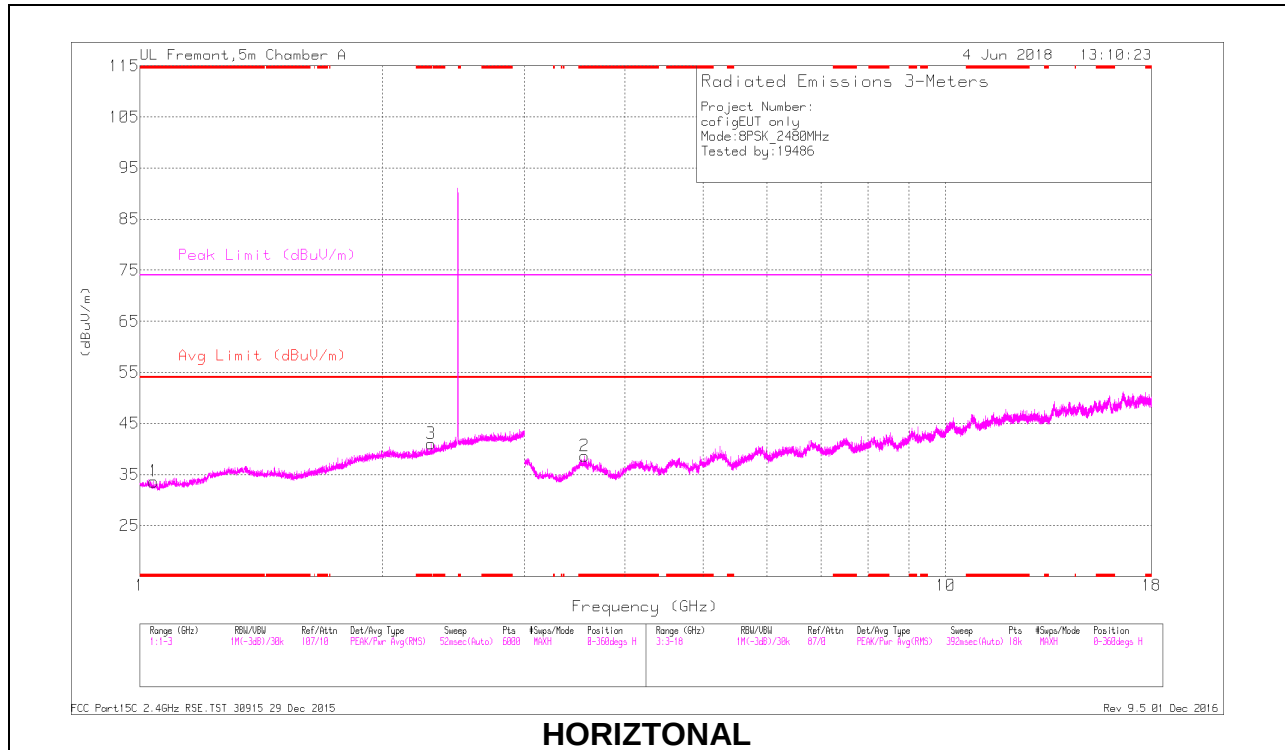
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.06	41.87	PKFH	27.2	-25	44.07	-	-	74	-29.93	97	144	H
	* 1.063	28.95	VA1T	27.3	-25	31.25	54	-22.75	-	-	97	144	H
2	* 1.577	40.95	PKFH	28	-23.6	45.35	-	-	74	-28.65	189	120	H
	* 1.581	28.68	VA1T	28	-23.6	33.08	54	-20.92	-	-	189	120	H
4	* 1.326	40.32	PKFH	29.5	-24.3	45.52	-	-	74	-28.48	144	171	V
	* 1.336	27.86	VA1T	29.5	-24.3	33.06	54	-20.94	-	-	144	171	V
5	* 1.235	41.38	PKFH	28.8	-24.4	45.78	-	-	74	-28.22	165	111	V
	* 1.229	28.17	VA1T	28.7	-24.3	32.57	54	-21.43	-	-	165	111	V
3	* 4.386	37.85	PKFH	33.7	-28	43.55	-	-	74	-30.45	84	170	H
	* 4.375	25.26	VA1T	33.7	-27.6	31.36	54	-22.64	-	-	84	170	H
6	* 3.561	37.9	PKFH	33	-26.4	44.5	-	-	74	-29.5	288	185	V
	* 3.578	25.88	VA1T	33	-26.7	32.18	54	-21.82	-	-	288	185	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	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.048	36.85	PKFH	27.1	-24.1	39.85	-	-	74	-34.15	74	330	H
	* 1.03	24.34	VA1T	27.4	-24.2	27.54	54	-26.46	-	-	74	330	H
3	* 2.289	38.07	PKFH	31.5	-23.6	45.97	-	-	74	-28.03	311	231	H
	* 2.299	25.34	VA1T	31.5	-23.6	33.24	54	-20.76	-	-	311	231	H
4	* 1.583	36.68	PKFH	28.1	-23.4	41.38	-	-	74	-32.62	116	131	V
	* 1.594	24.52	VA1T	28.1	-23.4	29.22	54	-24.78	-	-	116	131	V
2	* 3.571	38.32	PKFH	33	-26.6	44.72	-	-	74	-29.28	203	259	H
	* 3.575	25.73	VA1T	33	-26.6	32.13	54	-21.87	-	-	203	259	H
5	* 4.759	36.85	PKFH	34.1	-27.4	43.55	-	-	74	-30.45	244	220	V
	* 4.748	24.56	VA1T	34	-27.3	31.26	54	-22.74	-	-	244	220	V
6	* 11.941	32.88	PKFH	38.9	-18.2	53.58	-	-	74	-20.42	27	111	V
	* 11.928	20.44	VA1T	38.9	-18.1	41.24	54	-12.76	-	-	27	111	V

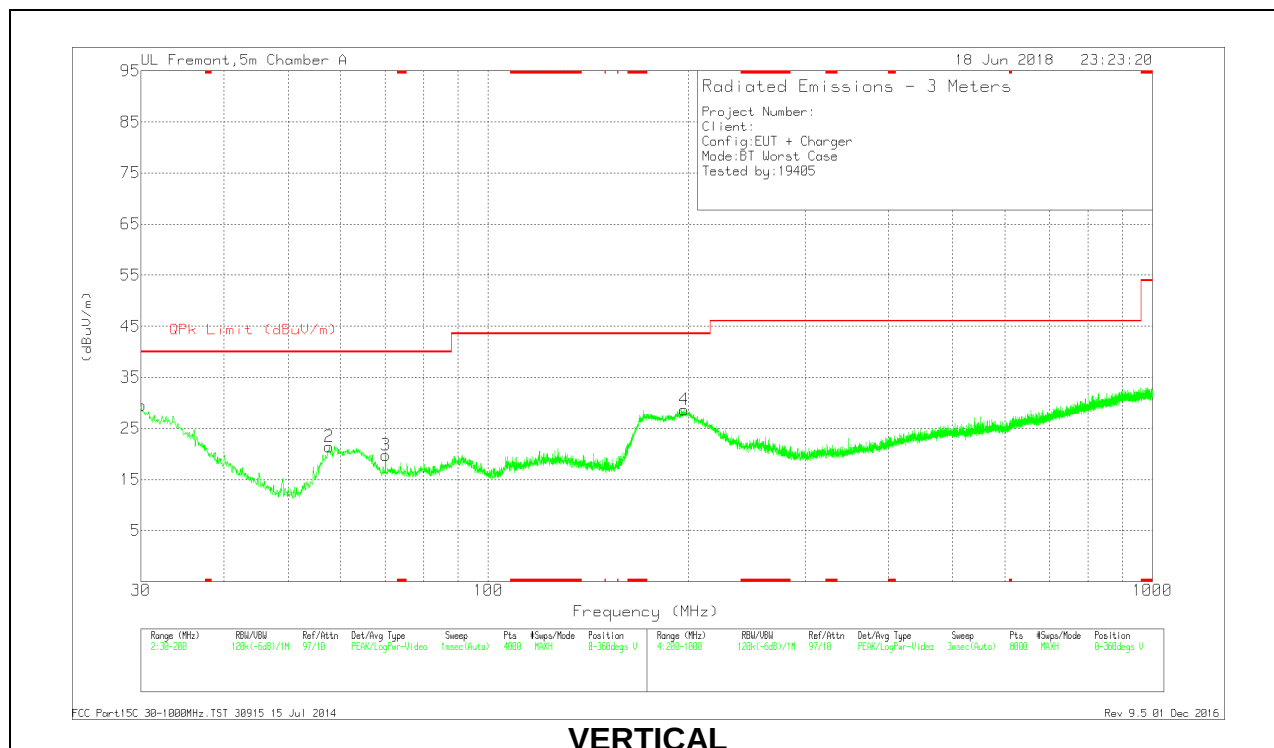
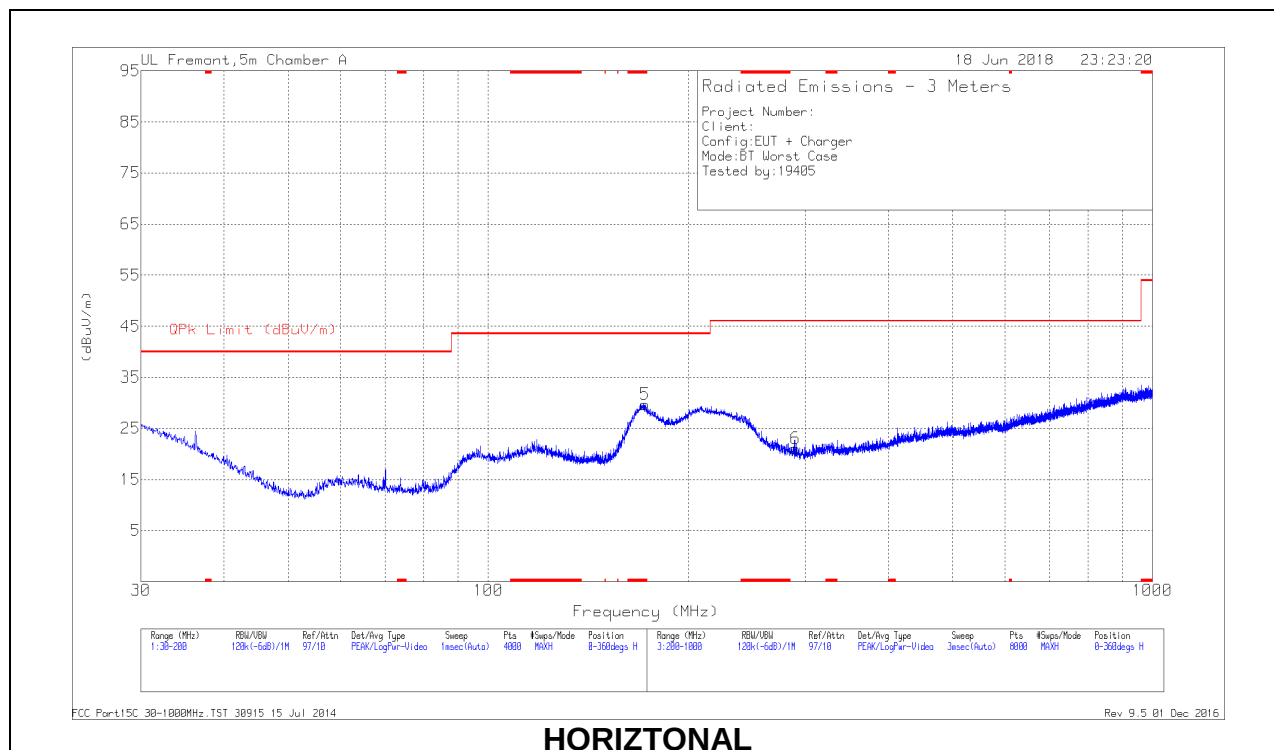
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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. Worst Case Below 1 GHz

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

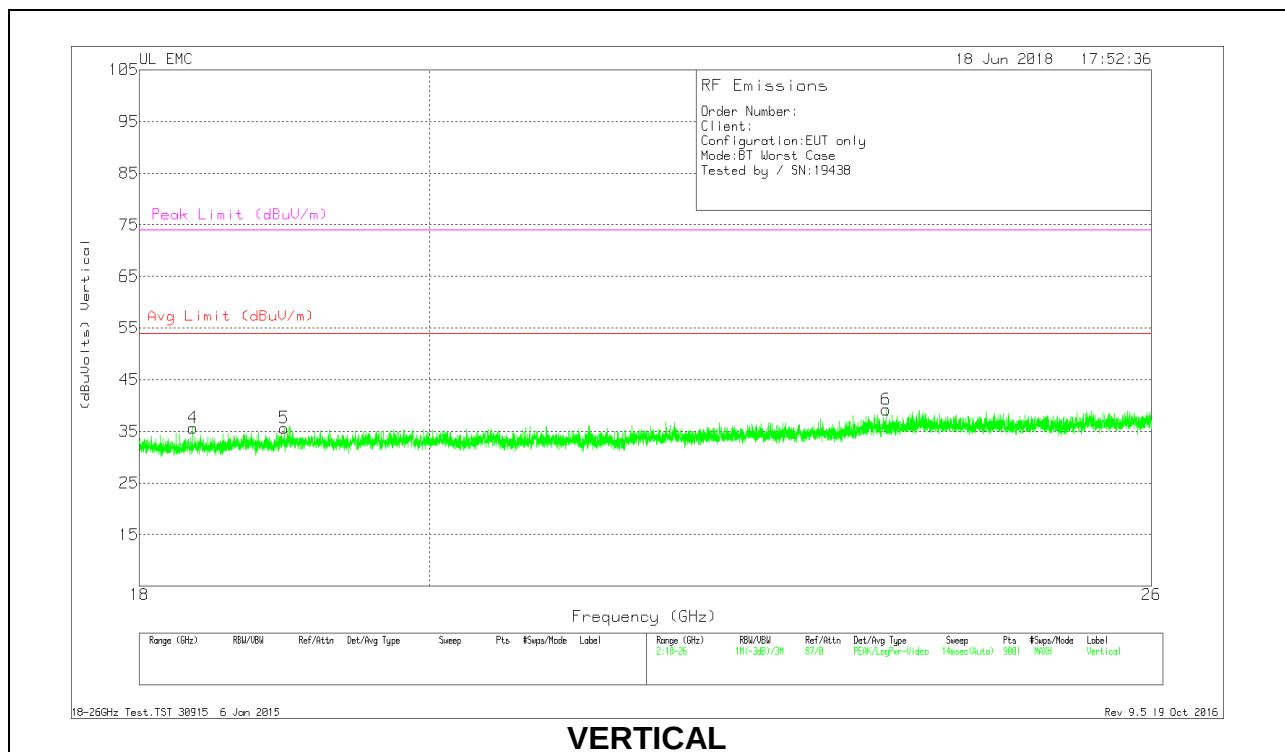
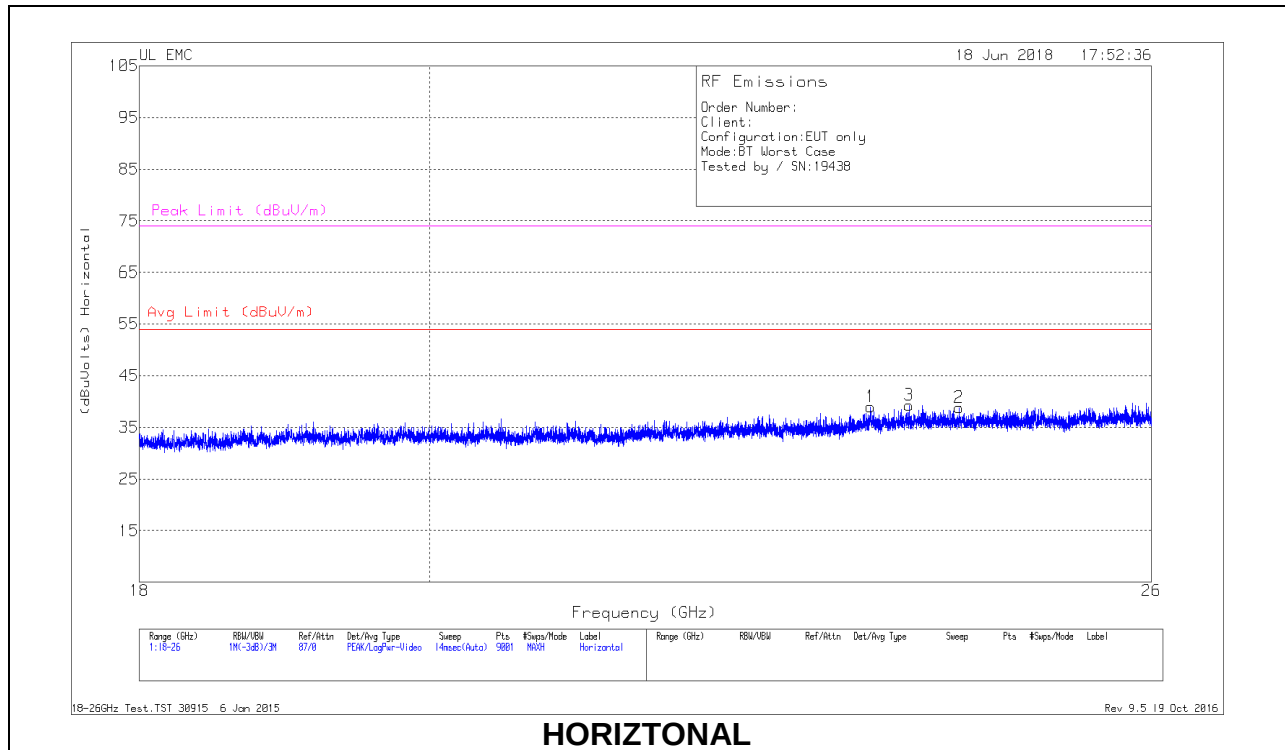


Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 172.1143	39.54	Pk	15.7	-25.6	29.64	43.52	-13.88	0-360	200	H
4	197.4083	37.9	Pk	16.2	-25.4	28.7	43.52	-14.82	0-360	100	V
6	290.4118	28.46	Pk	17.2	-24.6	21.06	46.02	-24.96	0-360	101	H
1	30.0425	31.6	Pk	25.2	-27.3	29.5	40	-10.5	0-360	100	V
2	57.6747	36.98	Pk	11.3	-26.9	21.38	40	-18.62	0-360	100	V
3	70.0454	34.4	Pk	12.1	-26.7	19.8	40	-20.2	0-360	100	V

9.3. Worst Case 18-26 GHz

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



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 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	23.476	38.93	Pk	34	-24.5	-9.5	38.93	54	-15.07	74	-35.07
2	24.244	38.78	Pk	33.8	-24.3	-9.5	38.78	54	-15.22	74	-35.22
3	23.808	38.97	Pk	33.8	-24	-9.5	39.27	54	-14.73	74	-34.73
4	18.353	38.09	Pk	32.3	-25.2	-9.5	35.69	54	-18.31	74	-38.31
5	18.972	38	Pk	32.4	-25.3	-9.5	35.6	54	-18.4	74	-38.4
6	23.611	39.1	Pk	33.9	-24.3	-9.5	39.2	54	-14.8	74	-34.8

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

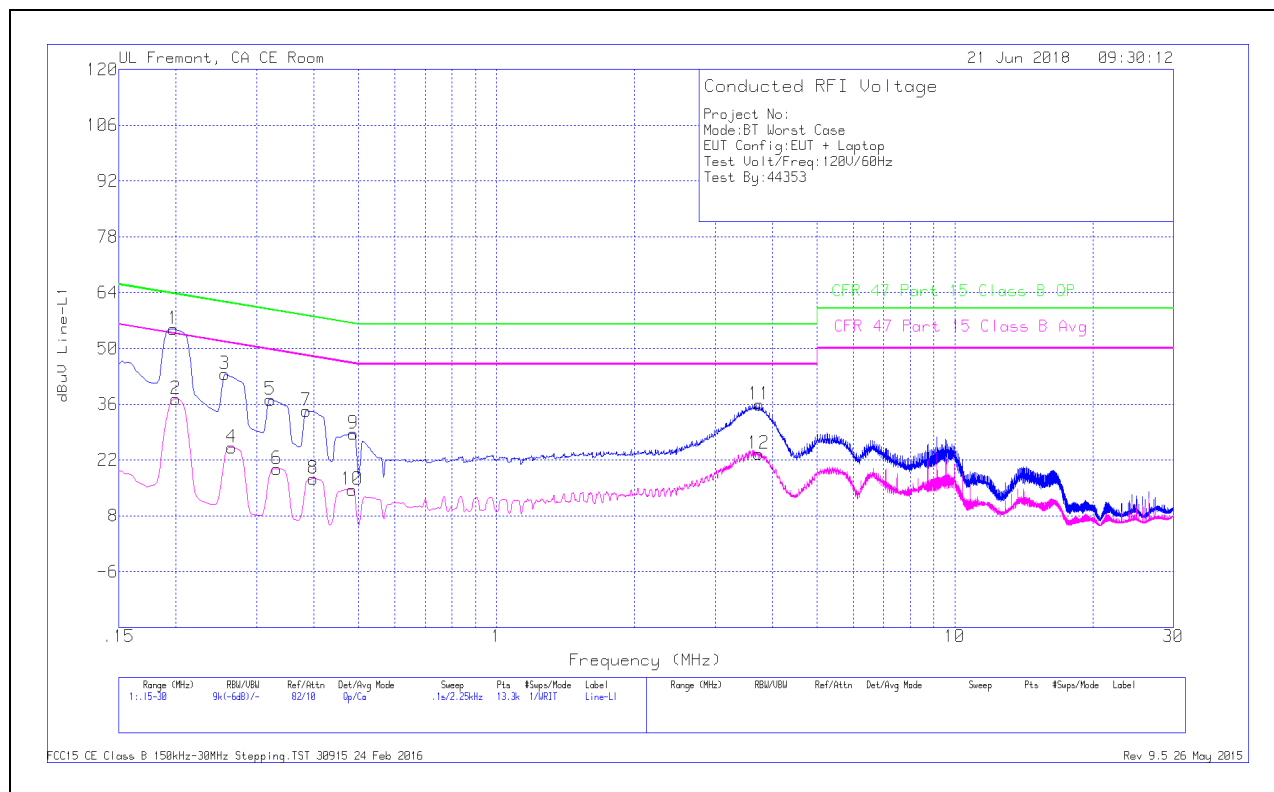
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1.1. AC Power Line Host

LINE 1 RESULTS

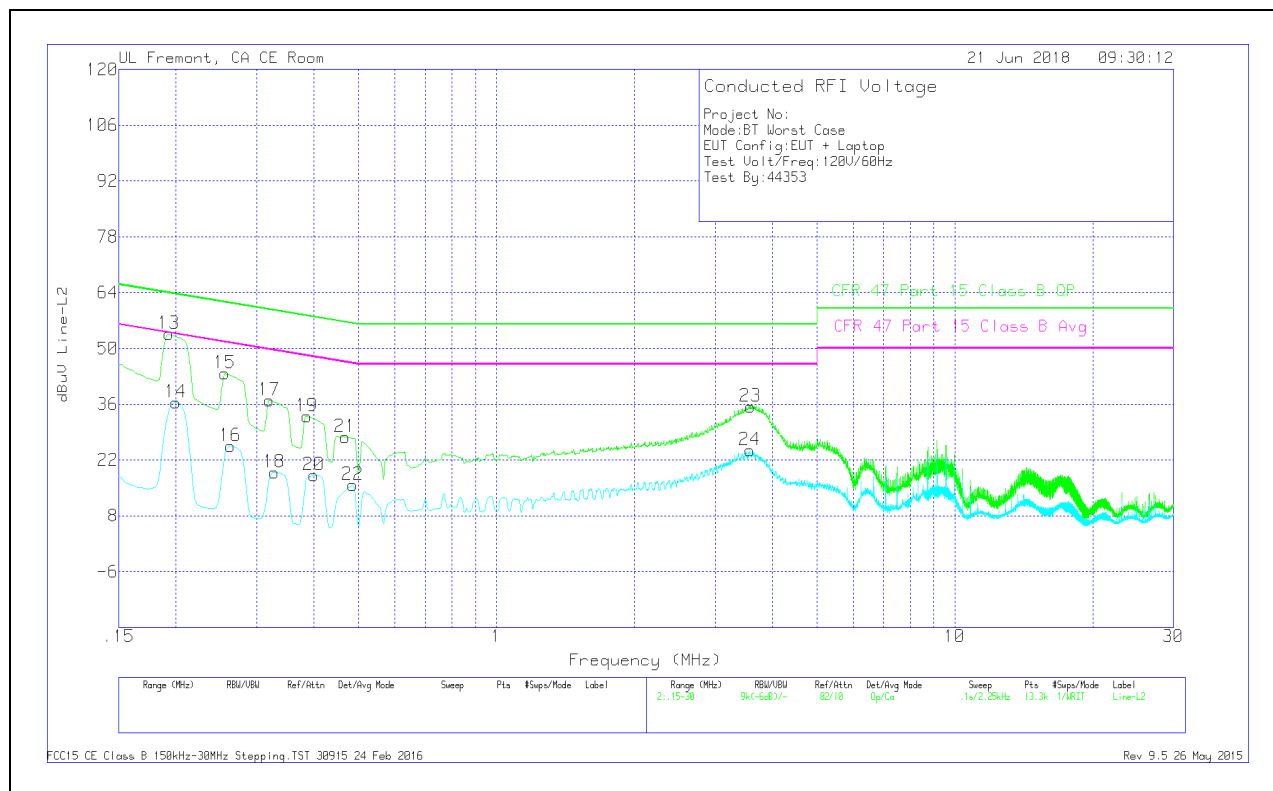


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.19725	44.17	Qp	.6	0	10.1	54.87	63.73	-8.86	-	-
2	.1995	26.62	Ca	.6	0	10.1	37.32	-	-	53.63	-16.31
3	.25575	33.12	Qp	.4	0	10.1	43.62	61.57	-17.95	-	-
4	.26475	14.68	Ca	.4	0	10.1	25.18	-	-	51.28	-26.1
5	.321	26.66	Qp	.4	0	10.1	37.16	59.68	-22.52	-	-
6	.33225	9.41	Ca	.3	0	10.1	19.81	-	-	49.39	-29.58
7	.38512	24.02	Qp	.2	0	10.1	34.32	58.17	-23.85	-	-
8	.39862	7.01	Ca	.2	0	10.1	17.31	-	-	47.88	-30.57
9	.4875	18.44	Qp	.1	0	10.1	28.64	56.21	-27.57	-	-
10	.48412	4.37	Ca	.1	0	10.1	14.57	-	-	46.27	-31.7
11	3.7455	25.55	Qp	.1	.1	10.1	35.85	56	-20.15	-	-
12	3.72975	13.31	Ca	.1	.1	10.1	23.61	-	-	46	-22.39

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



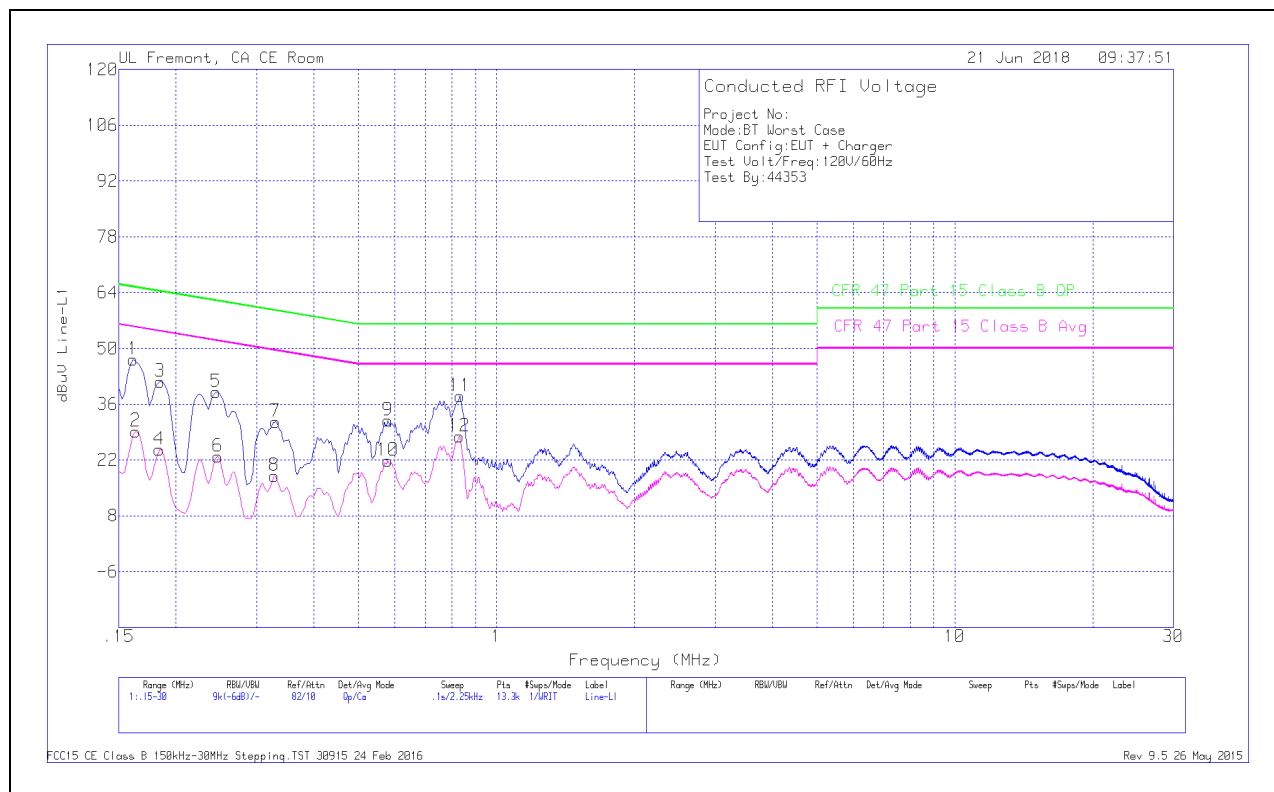
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.19275	43.39	Qp	.1	0	10.1	53.59	63.92	-10.33	-	-
14	.1995	26.2	Ca	.1	0	10.1	36.4	-	-	53.63	-17.23
15	.25575	33.62	Qp	.1	0	10.1	43.82	61.57	-17.75	-	-
16	.2625	15.26	Ca	.1	0	10.1	25.46	-	-	51.35	-25.89
17	.31987	26.76	Qp	.1	0	10.1	36.96	59.71	-22.75	-	-
18	.32775	8.66	Ca	.1	0	10.1	18.86	-	-	49.51	-30.65
19	.38625	22.74	Qp	.1	0	10.1	32.94	58.14	-25.2	-	-
20	.39975	7.93	Ca	.1	0	10.1	18.13	-	-	47.86	-29.73
21	.46725	17.57	Qp	.1	0	10.1	27.77	56.56	-28.79	-	-
22	.48525	5.51	Ca	.1	0	10.1	15.71	-	-	46.25	-30.54
23	3.5835	25.24	Qp	0	.1	10.1	35.44	56	-20.56	-	-
24	3.57225	14.18	Ca	0	.1	10.1	24.38	-	-	46	-21.62

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.1.2. AC Power Line Norm

LINE 1 RESULTS

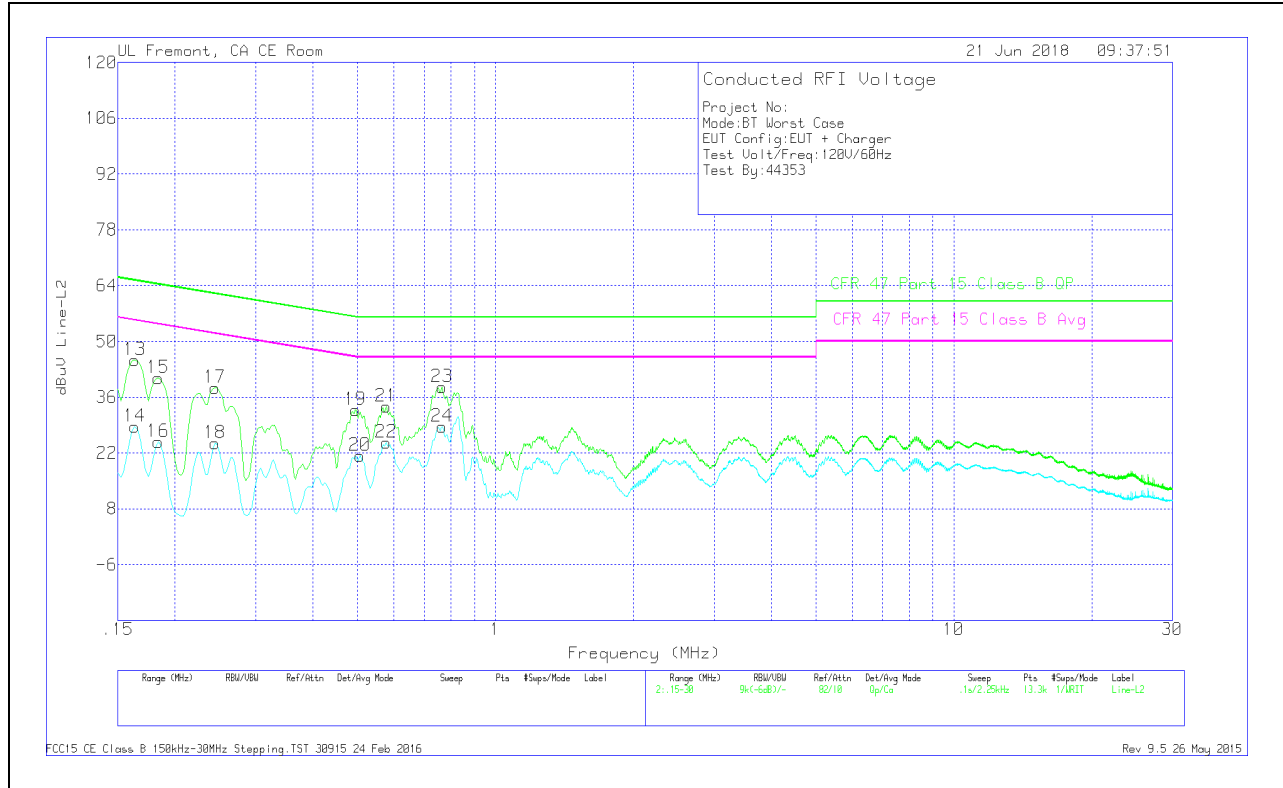


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.16125	36.48	Qp	.7	0	10.1	47.28	65.4	-18.12	-	-
2	.1635	18.42	Ca	.7	0	10.1	29.22	-	-	55.28	-26.06
3	.18488	30.83	Qp	.7	0	10.1	41.63	64.26	-22.63	-	-
4	.18375	13.8	Ca	.7	0	10.1	24.6	-	-	54.31	-29.71
5	.2445	28.52	Qp	.4	0	10.1	39.02	61.94	-22.92	-	-
6	.24675	12.45	Ca	.4	0	10.1	22.95	-	-	51.87	-28.92
7	.33	21.14	Qp	.3	0	10.1	31.54	59.45	-27.91	-	-
8	.32775	7.69	Ca	.3	0	10.1	18.09	-	-	49.51	-31.42
9	.57975	21.67	Qp	.1	0	10.1	31.87	56	-24.13	-	-
10	.57975	11.67	Ca	.1	0	10.1	21.87	-	-	46	-24.13
11	.83175	27.74	Qp	.1	0	10.1	37.94	56	-18.06	-	-
12	.8295	17.68	Ca	.1	0	10.1	27.88	-	-	46	-18.12

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	.1635	35.07	Qp	.1	0	10.1	45.27	65.28	-20.01	-	-
14	.1635	18.39	Ca	.1	0	10.1	28.59	-	-	55.28	-26.69
15	.18375	30.64	Qp	.1	0	10.1	40.84	64.31	-23.47	-	-
16	.18375	14.56	Ca	.1	0	10.1	24.76	-	-	54.31	-29.55
17	.2445	28.23	Qp	.1	0	10.1	38.43	61.94	-23.51	-	-
18	.2445	14.18	Ca	.1	0	10.1	24.38	-	-	51.94	-27.56
19	.49537	22.59	Qp	.1	0	10.1	32.79	56.08	-23.29	-	-
20	.5055	11.15	Ca	.1	0	10.1	21.35	-	-	46	-24.65
21	.5775	23.47	Qp	.1	0	10.1	33.67	56	-22.33	-	-
22	.5775	14.43	Ca	.1	0	10.1	24.63	-	-	46	-21.37
23	.76425	28.26	Qp	.1	0	10.1	38.46	56	-17.54	-	-
24	.76425	18.36	Ca	.1	0	10.1	28.56	-	-	46	-17.44

Qp - Quasi-Peak detector

Ca - CISPR average detection

END OF REPORT

11. SETUP PHOTOS

Please refer to 12258201-EP1V1 for setup photos