

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.

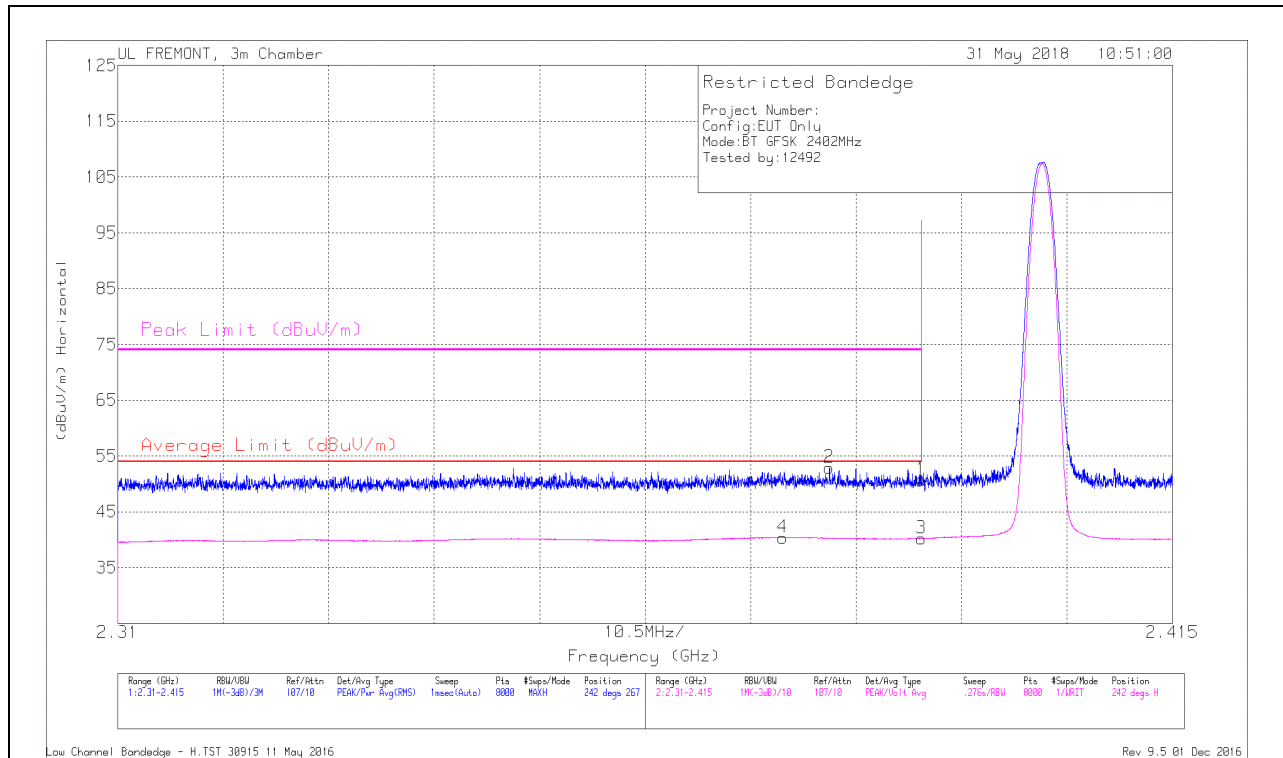
9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

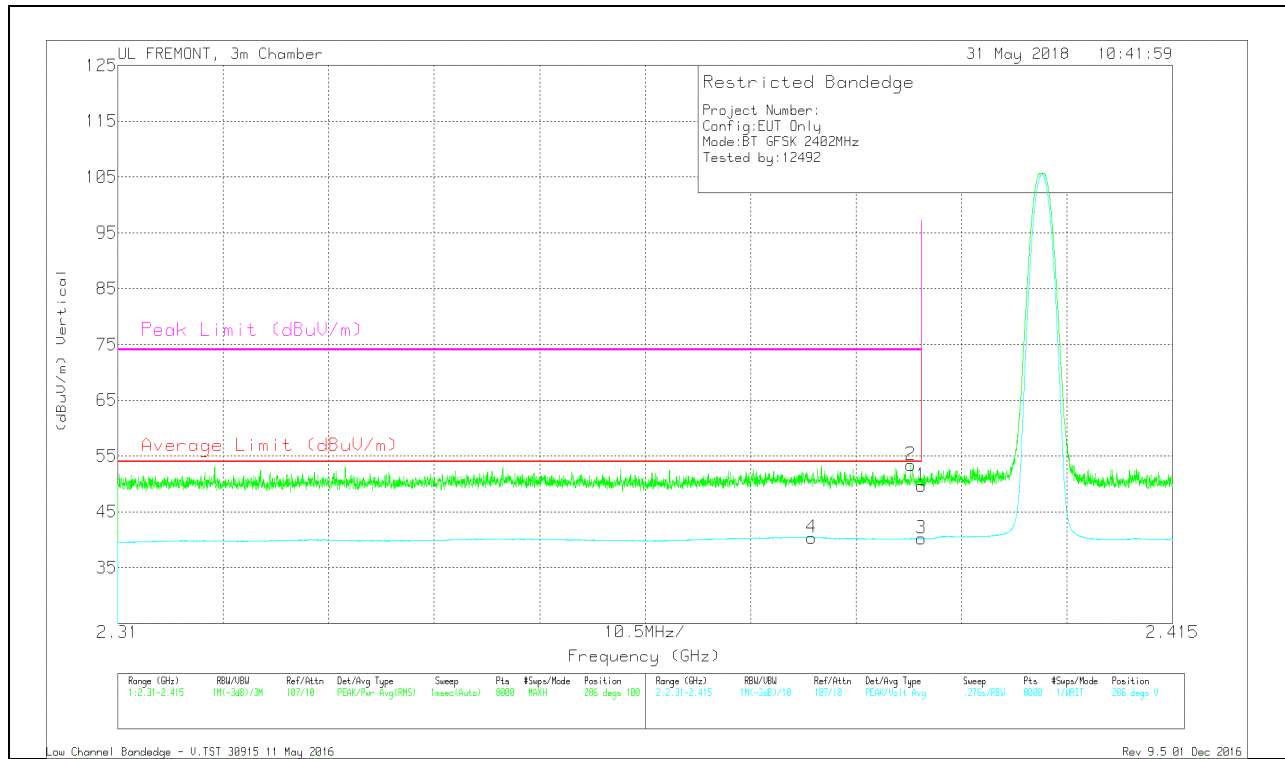


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.376	29.1	VA1T	31.8	-20.5	40.4	54	-13.6	-	-	242	267	H
2	2.381	41.72	Pk	31.8	-20.6	52.92	-	-	74	-21.08	242	267	H
1	2.39	39.48	Pk	31.9	-20.6	50.78	-	-	74	-23.22	242	267	H
3	2.39	28.92	VA1T	31.9	-20.6	40.22	54	-13.78	-	-	242	267	H

Pk - Peak detector

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

VERTICAL RESULT



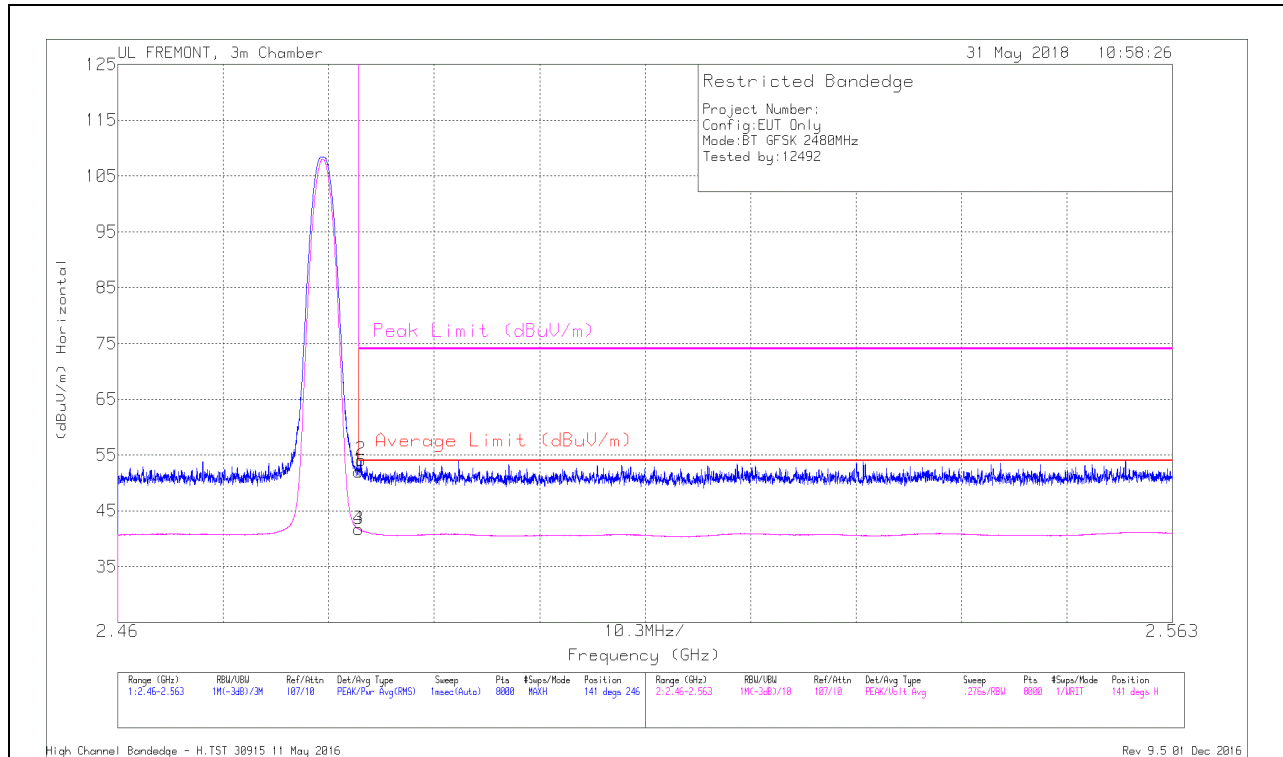
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.379	29.21	VA1T	31.8	-20.6	40.41	54	-13.59	-	-	286	100	V
2	2.389	42.1	Pk	31.9	-20.6	53.4	-	-	74	-20.6	286	100	V
1	2.39	38.35	Pk	31.9	-20.6	49.65	-	-	74	-24.35	286	100	V
3	2.39	28.89	VA1T	31.9	-20.6	40.19	54	-13.81	-	-	286	100	V

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

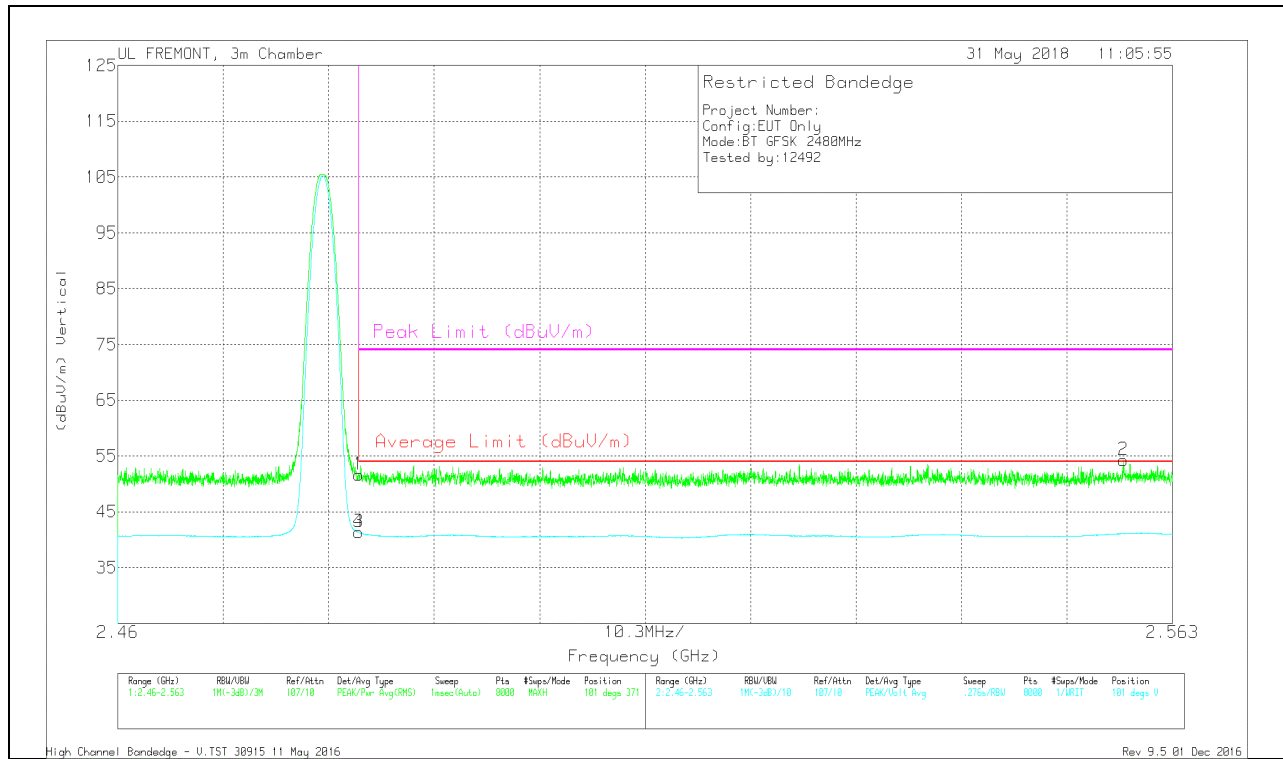


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/CbI/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	40.59	Pk	32.2	-20.7	52.09	-	-	74	-21.91	141	246	H
2	2.484	42.64	Pk	32.2	-20.7	54.14	-	-	74	-19.86	141	246	H
3	2.484	30.22	VA1T	32.2	-20.7	41.72	54	-12.28	-	-	141	246	H
4	2.484	30.19	VA1T	32.2	-20.7	41.69	54	-12.31	-	-	141	246	H

Pk - Peak detector

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

VERTICAL RESULT



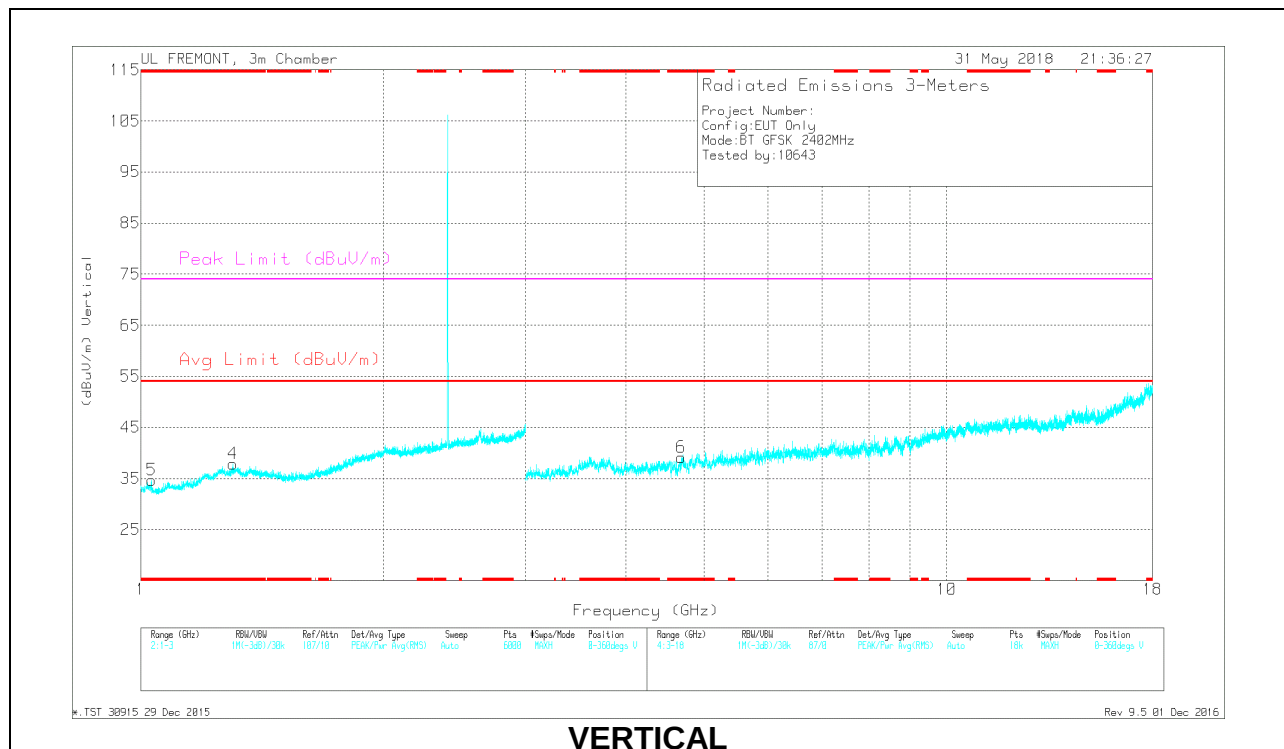
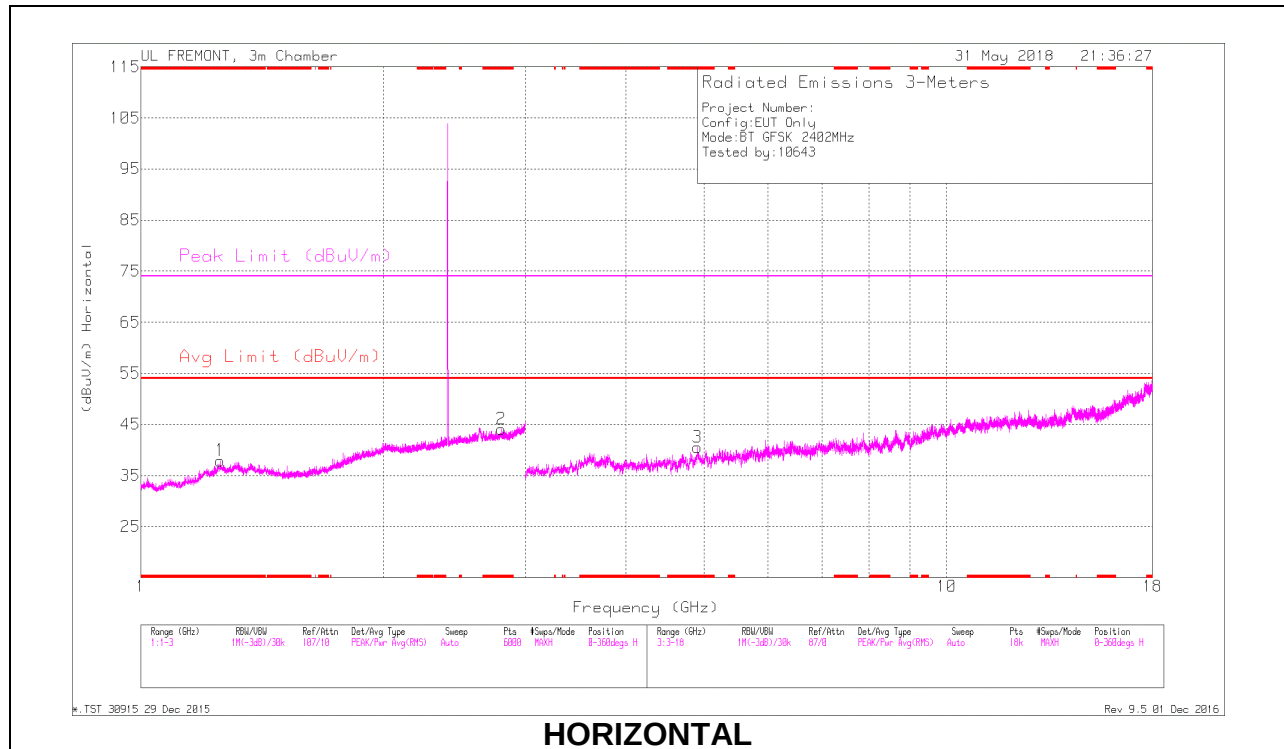
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/Filtr/Pat (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	40.16	Pk	32.2	-20.7	51.66	-	-	74	-22.34	101	371	V
3	2.484	29.8	VA1T	32.2	-20.7	41.3	54	-12.7	-	-	101	371	V
4	2.484	29.81	VA1T	32.2	-20.7	41.31	54	-12.69	-	-	101	371	V
2	2.558	42.37	Pk	32.3	-20.4	54.27	-	-	74	-19.73	101	371	V

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

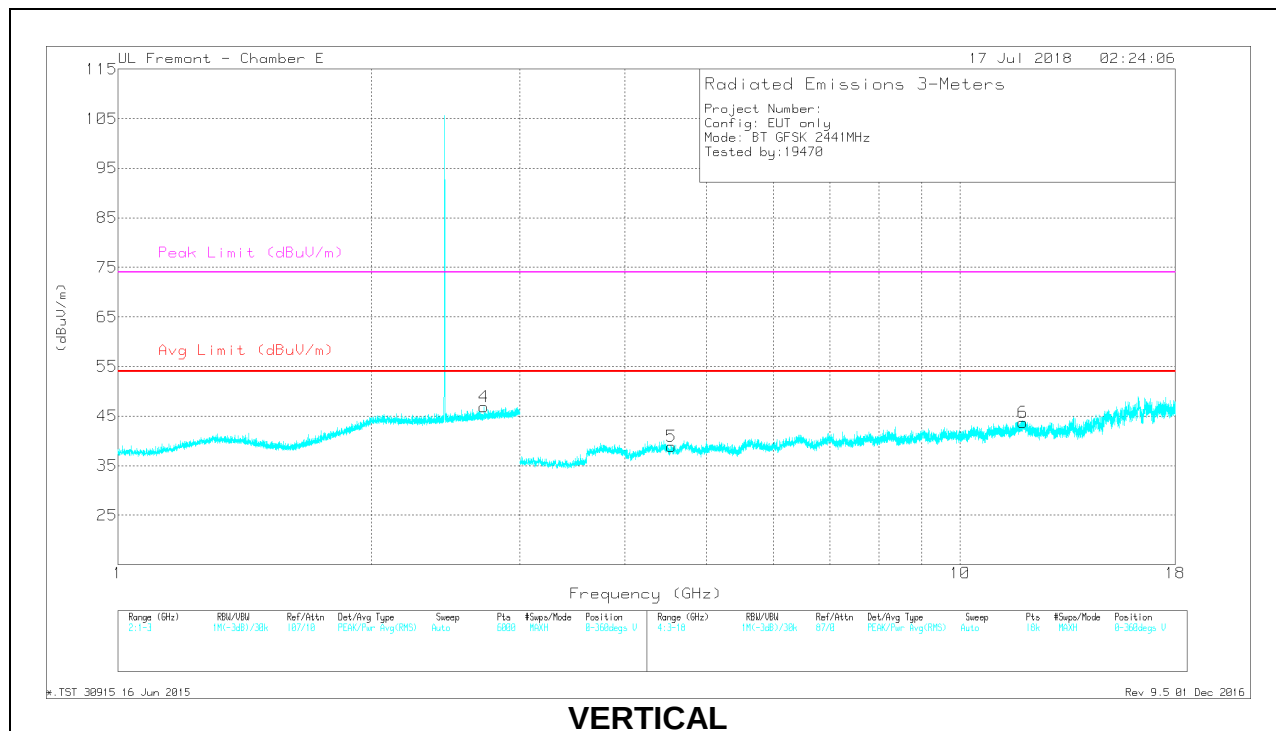
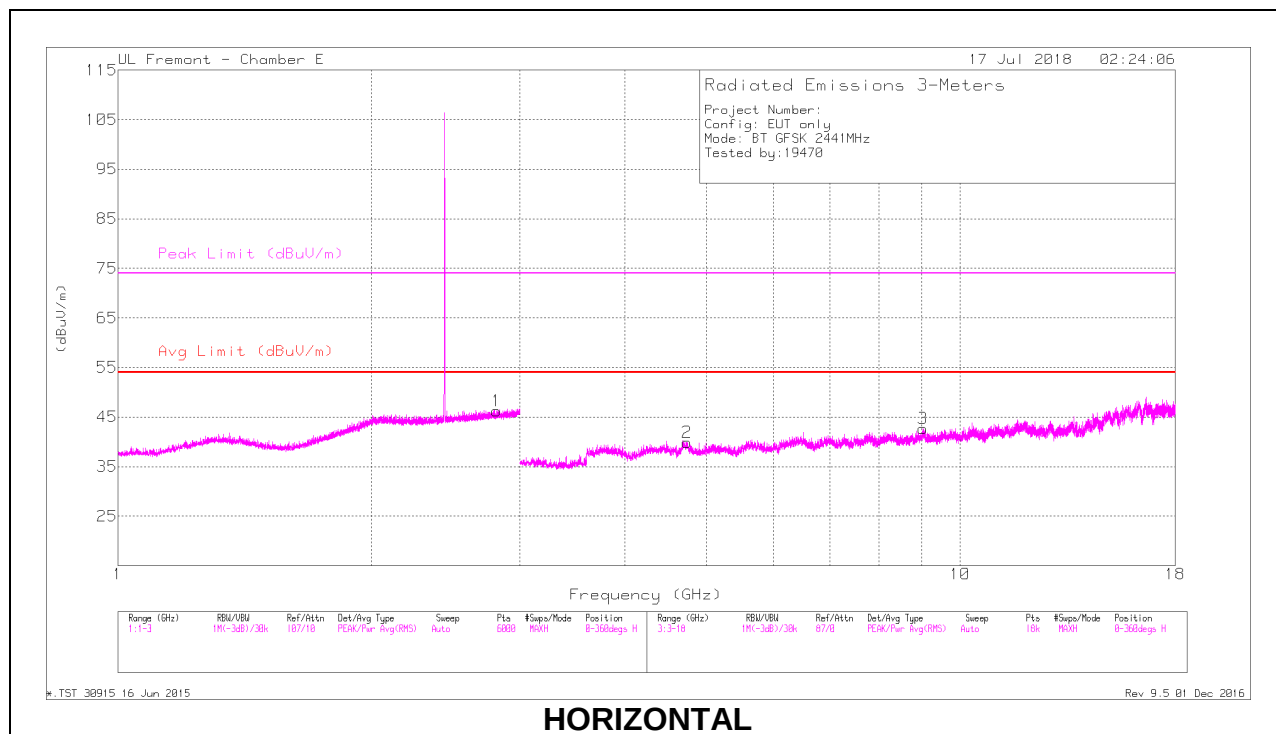
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 1.256	35.97	PKFH	29.9	-22.9	42.97	-	-	74	-31.03	144	239	H
	* 1.256	24.27	VA1T	29.9	-22.9	31.27	54	-22.73	-	-	144	239	H
2	* 2.8	37.12	PKFH	32.7	-20.7	49.12	-	-	74	-24.88	211	199	H
	* 2.8	25.26	VA1T	32.7	-20.7	37.26	54	-16.74	-	-	211	199	H
4	* 2.801	37.49	PKFH	32.7	-20.7	49.49	-	-	74	-24.51	197	390	H
	* 2.8	25.27	VA1T	32.7	-20.7	37.27	54	-16.73	-	-	197	390	H
5	* 1.03	35.64	PKFH	27.4	-23.6	39.44	-	-	74	-34.56	4	381	V
	* 1.029	24.2	VA1T	27.4	-23.6	28	54	-26	-	-	4	381	V
3	* 4.907	39.45	PKFH	34	-26.8	46.65	-	-	74	-27.35	309	256	H
	* 4.91	27.17	VA1T	34	-27.5	33.67	54	-20.33	-	-	309	256	H
6	* 4.687	38.86	PKFH	34.1	-28.2	44.76	-	-	74	-29.24	277	104	V
	* 4.688	27.29	VA1T	34.1	-28.1	33.29	54	-20.71	-	-	277	104	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

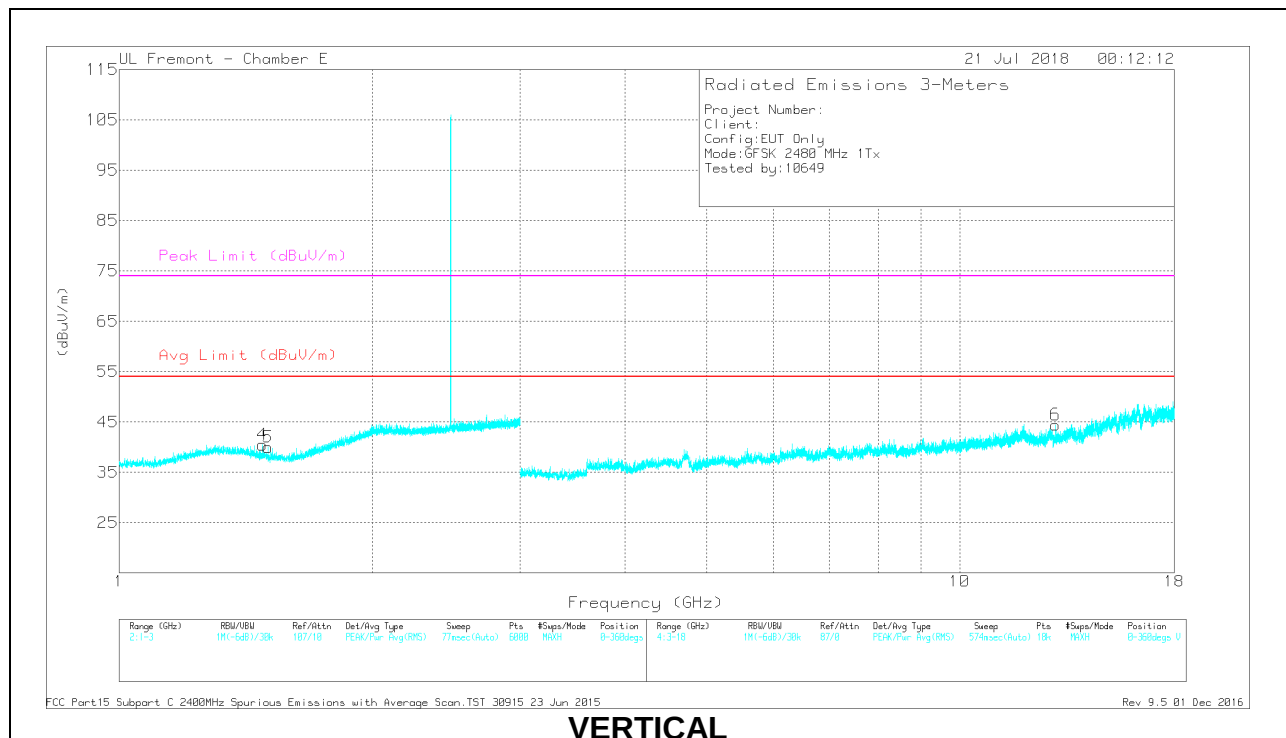
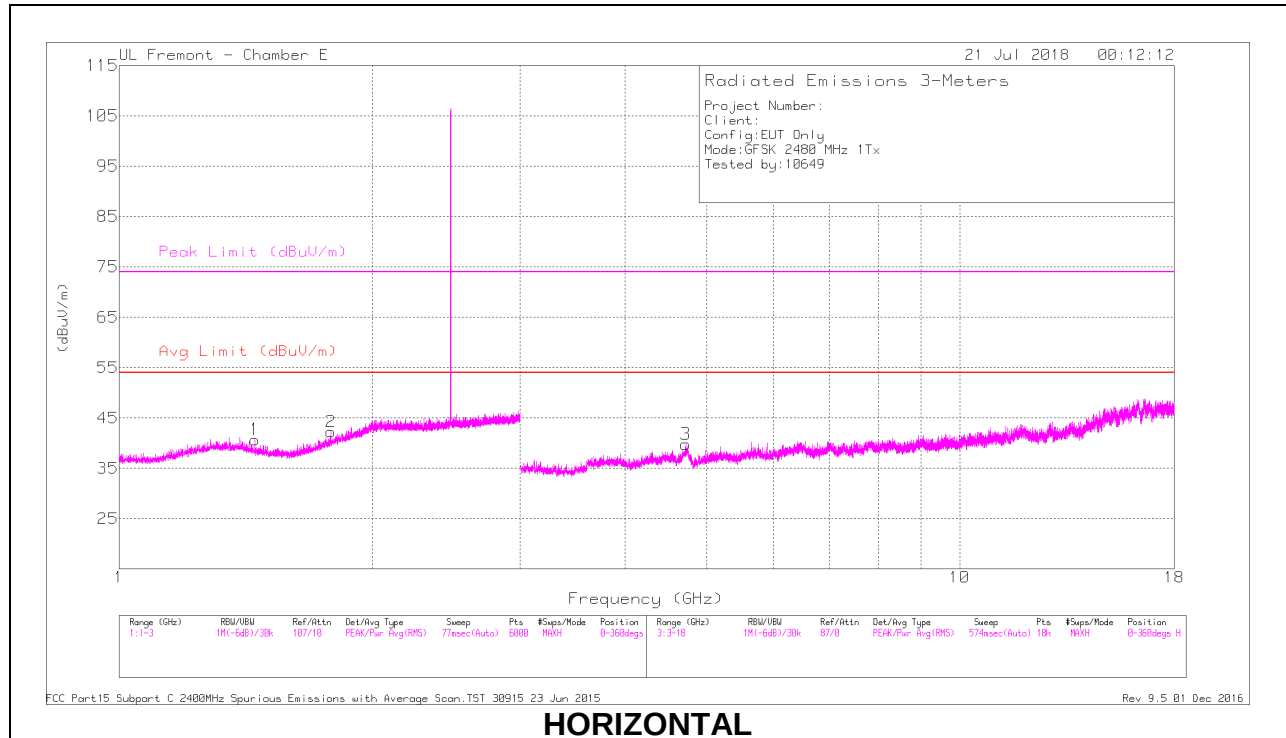
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.815	41.87	PKFH	32.6	-22	52.47	-	-	74	-21.53	218	101	H
	* 2.812	29.68	VA1T	32.6	-22	40.28	54	-13.72	-	-	218	101	H
4	* 2.717	41.92	PKFH	32.5	-22	52.42	-	-	74	-21.58	143	332	V
	* 2.716	27.9	VA1T	32.5	-22	38.4	54	-15.6	-	-	143	332	V
2	* 4.741	41.04	PKFH	34.4	-28.4	47.04	-	-	74	-26.96	41	236	H
	* 4.741	28.51	VA1T	34.4	-28.4	34.51	54	-19.49	-	-	41	236	H
3	* 9.037	37.05	PKFH	37	-24.5	49.55	-	-	74	-24.45	212	236	H
	* 9.036	23.41	VA1T	37	-24.5	35.91	54	-18.09	-	-	212	236	H
5	* 4.54	40.31	PKFH	34.5	-29.2	45.61	-	-	74	-28.39	236	222	V
	* 4.54	27.86	VA1T	34.5	-29.2	33.16	54	-20.84	-	-	236	222	V
6	* 11.865	35.31	PKFH	39.4	-22.7	52.01	-	-	74	-21.99	188	280	V
	* 11.865	21.15	VA1T	39.4	-22.7	37.85	54	-16.15	-	-	188	280	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

Markers	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	* 1.45	41.56	PKFH	28.2	-24.9	44.86	-	-	74	-29.14	168	226	H
	* 1.45	29.12	VA1T	28.2	-24.9	32.42	54	-21.58	-	-	168	226	H
4	* 1.48	41.8	PKFH	27.8	-24.8	44.8	-	-	74	-29.2	159	257	V
	* 1.48	29.14	VA1T	27.8	-24.8	32.14	54	-21.86	-	-	159	257	V
5	* 1.505	41.63	PKFH	27.6	-24.8	44.43	-	-	74	-29.57	134	189	V
	* 1.504	29.13	VA1T	27.6	-24.8	31.93	54	-22.07	-	-	134	189	V
3	* 4.722	38.51	PKFH	34.4	-28.4	44.51	-	-	74	-29.49	255	334	H
	* 4.719	26.33	VA1T	34.4	-28.4	32.33	54	-21.67	-	-	255	334	H
2	1.786	40.84	PKFH	29.4	-24	46.24	-	-	74	-27.76	172	222	H
6	13.002	32.51	PKFH	39.2	-23.5	48.21	-	-	74	-25.79	222	289	V

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

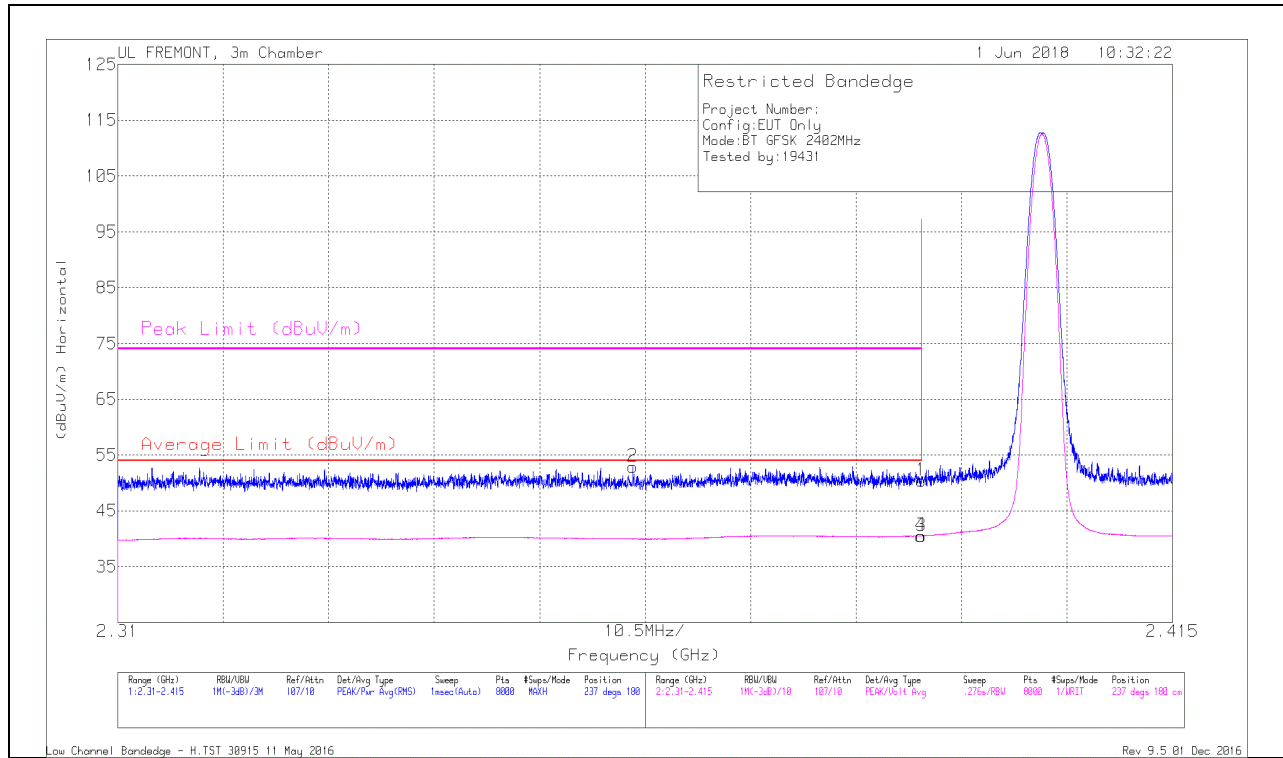
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

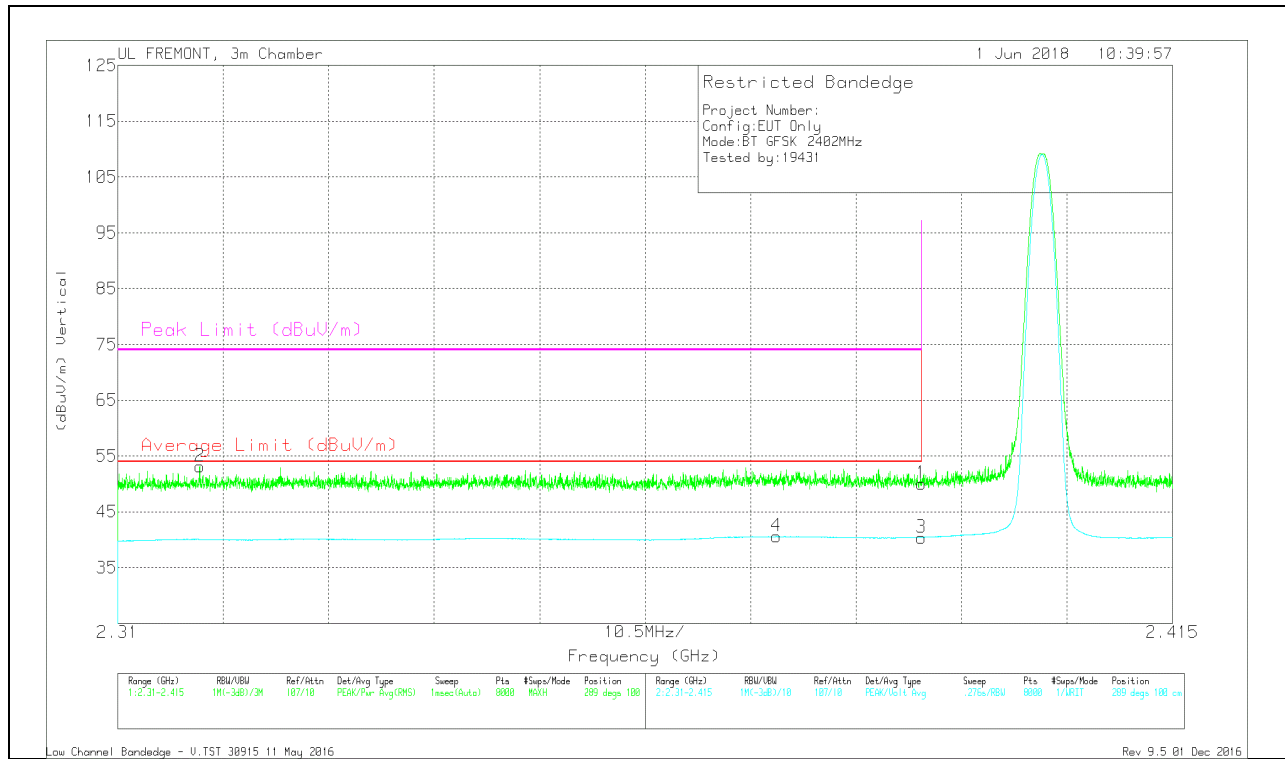


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.361	41.61	Pk	31.7	-20.4	52.91	-	-	74	-21.09	237	180	H
1	2.39	39.1	Pk	31.9	-20.6	50.4	-	-	74	-23.6	237	180	H
3	2.39	29.21	VA1T	31.9	-20.6	40.51	54	-13.49	-	-	237	180	H
4	2.39	29.24	VA1T	31.9	-20.6	40.54	54	-13.46	-	-	237	180	H

Pk - Peak detector

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

VERTICAL RESULT



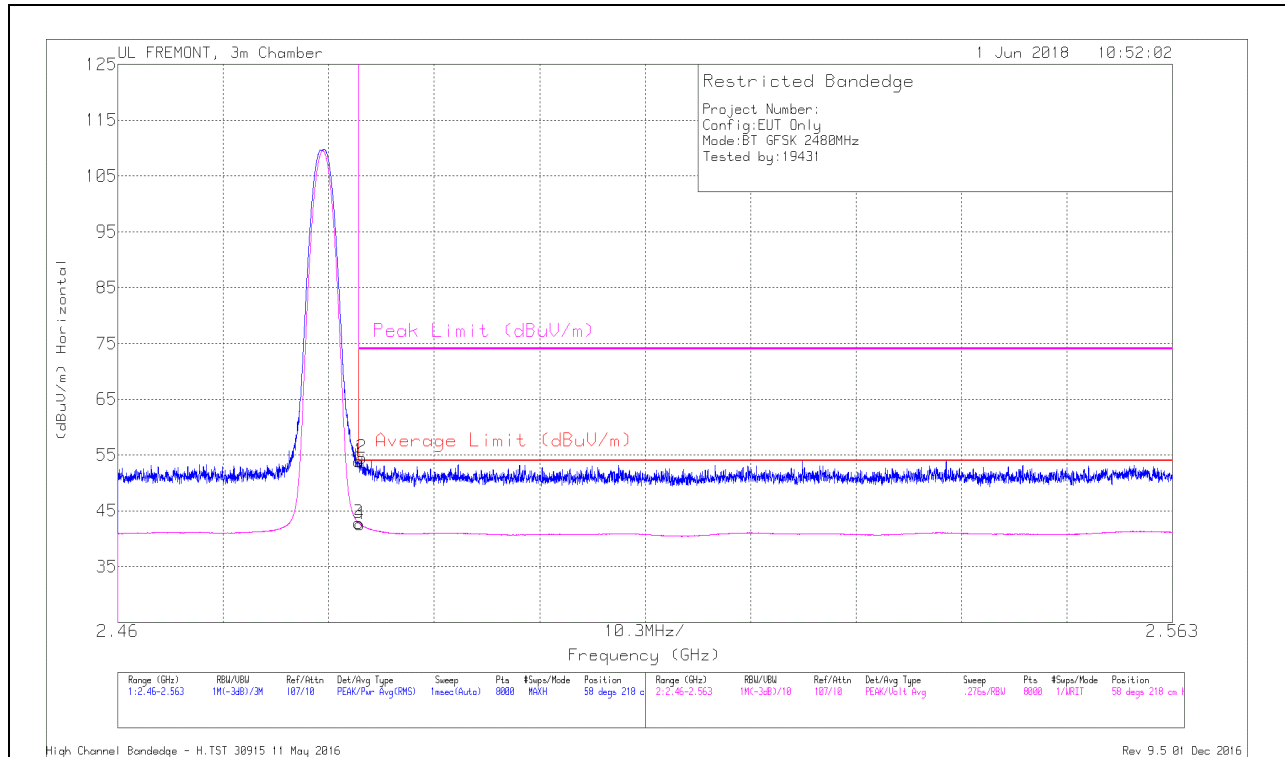
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.318	42	Pk	31.7	-20.5	53.2	-	-	74	-20.8	289	100	V
4	2.376	29.27	VA1T	31.8	-20.5	40.57	54	-13.43	-	-	289	100	V
1	2.39	38.8	Pk	31.9	-20.6	50.1	-	-	74	-23.9	289	100	V
3	2.39	29.09	VA1T	31.9	-20.6	40.39	54	-13.61	-	-	289	100	V

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

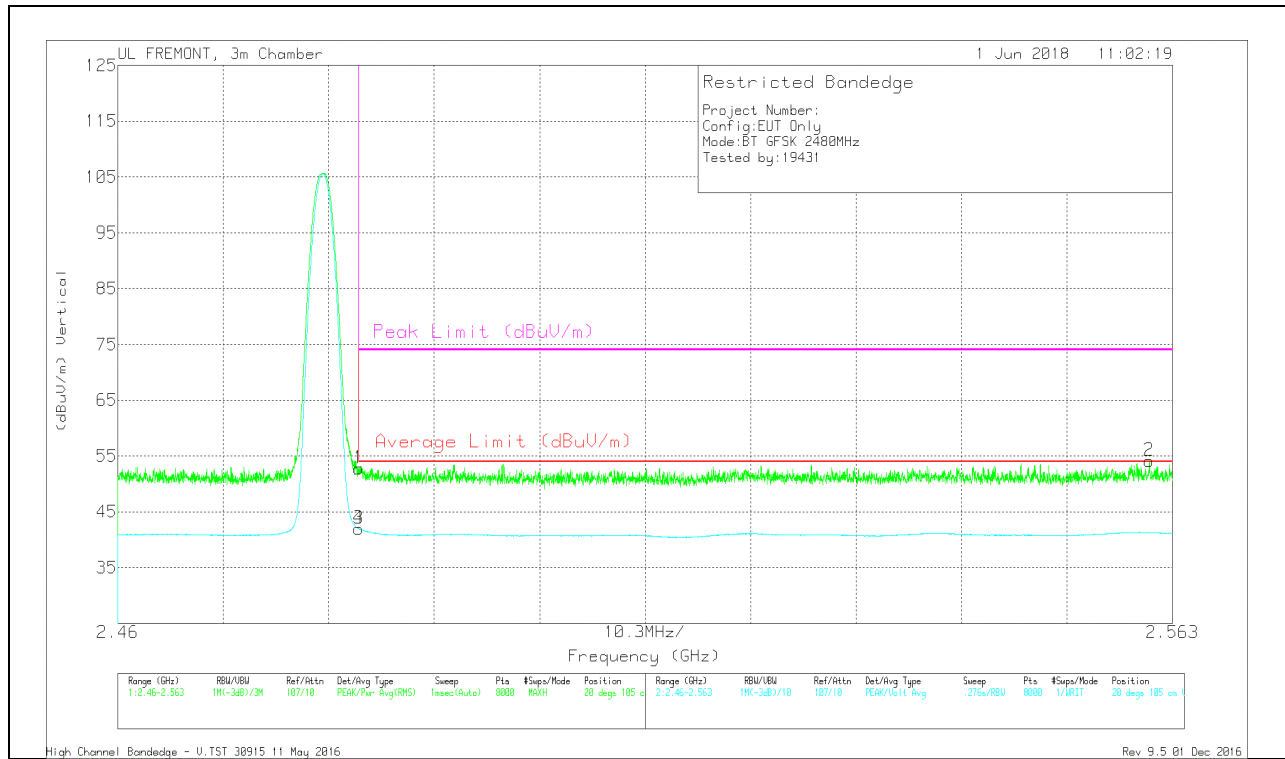


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb/Fltr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	42.38	Pk	32.2	-20.7	53.88	-	-	74	-20.12	58	218	H
2	2.484	43.02	Pk	32.2	-20.7	54.52	-	-	74	-19.48	58	218	H
3	2.484	31.35	VA1T	32.2	-20.7	42.85	54	-11.15	-	-	58	218	H
4	2.484	31.15	VA1T	32.2	-20.7	42.65	54	-11.35	-	-	58	218	H

Pk - Peak detector

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

VERTICAL RESULT



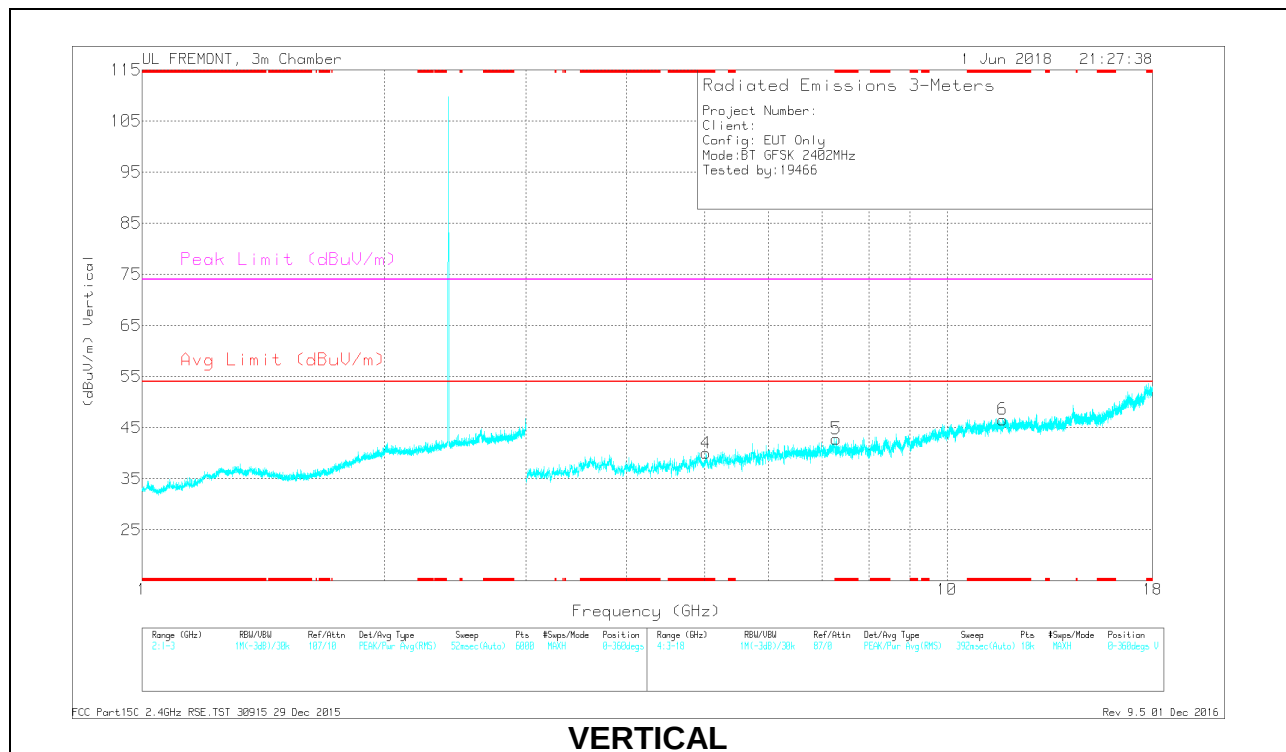
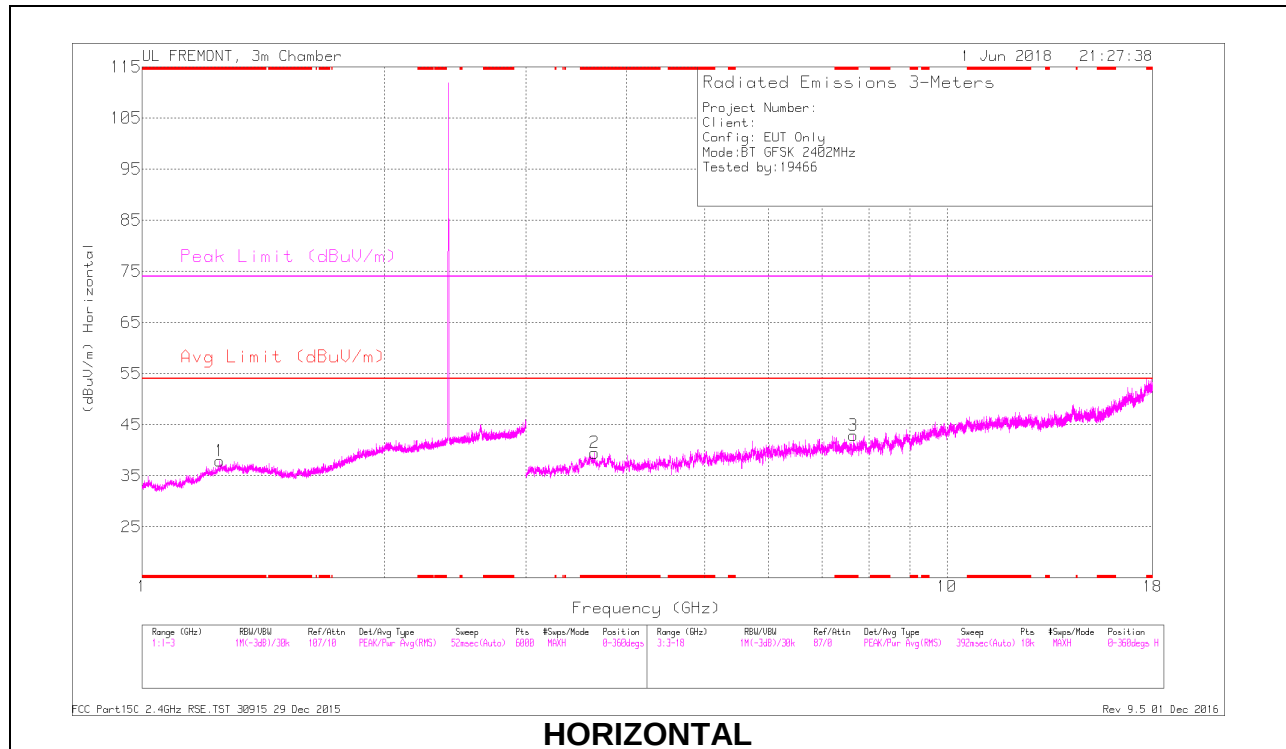
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Ampl/Cbl/Filtr/Pat (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	41.3	Pk	32.2	-20.7	52.8	-	-	74	-21.2	20	105	V
3	2.484	30.49	VA1T	32.2	-20.7	41.99	54	-12.01	-	-	20	105	V
4	2.484	30.49	VA1T	32.2	-20.7	41.99	54	-12.01	-	-	20	105	V
2	2.561	42.24	Pk	32.3	-20.4	54.14	-	-	74	-19.86	20	105	V

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

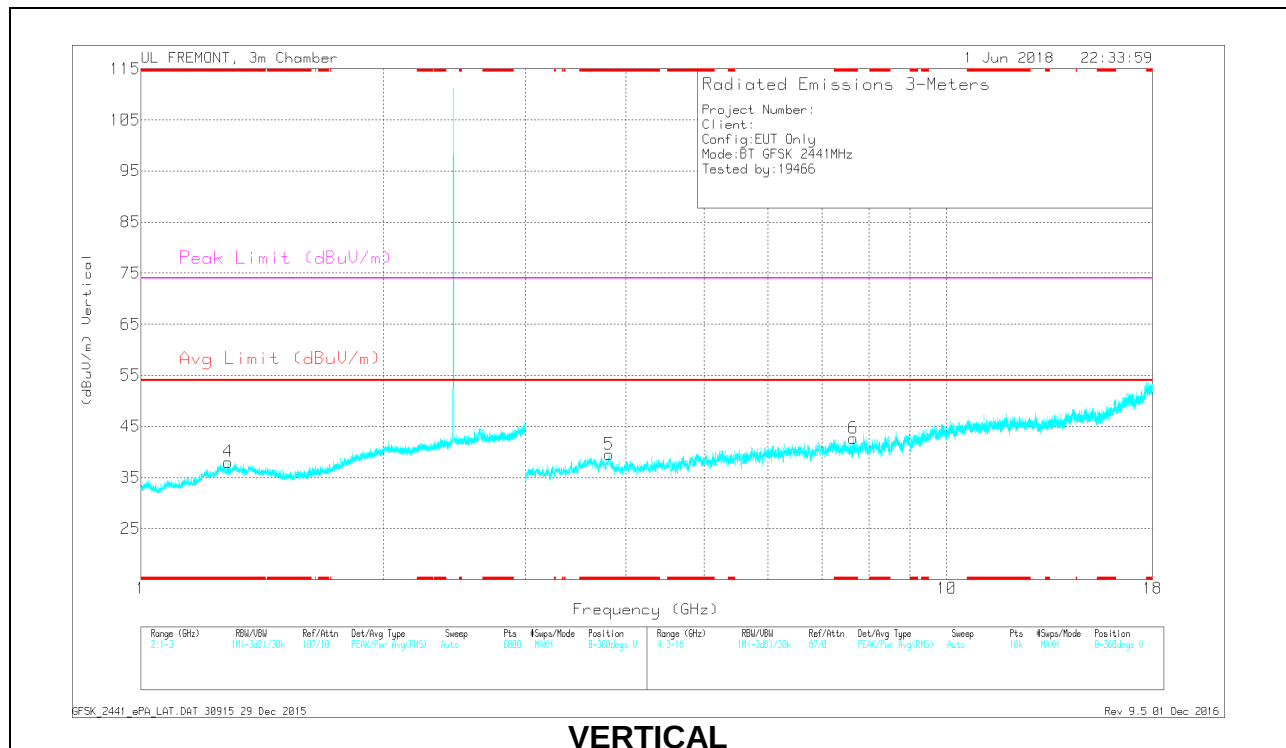
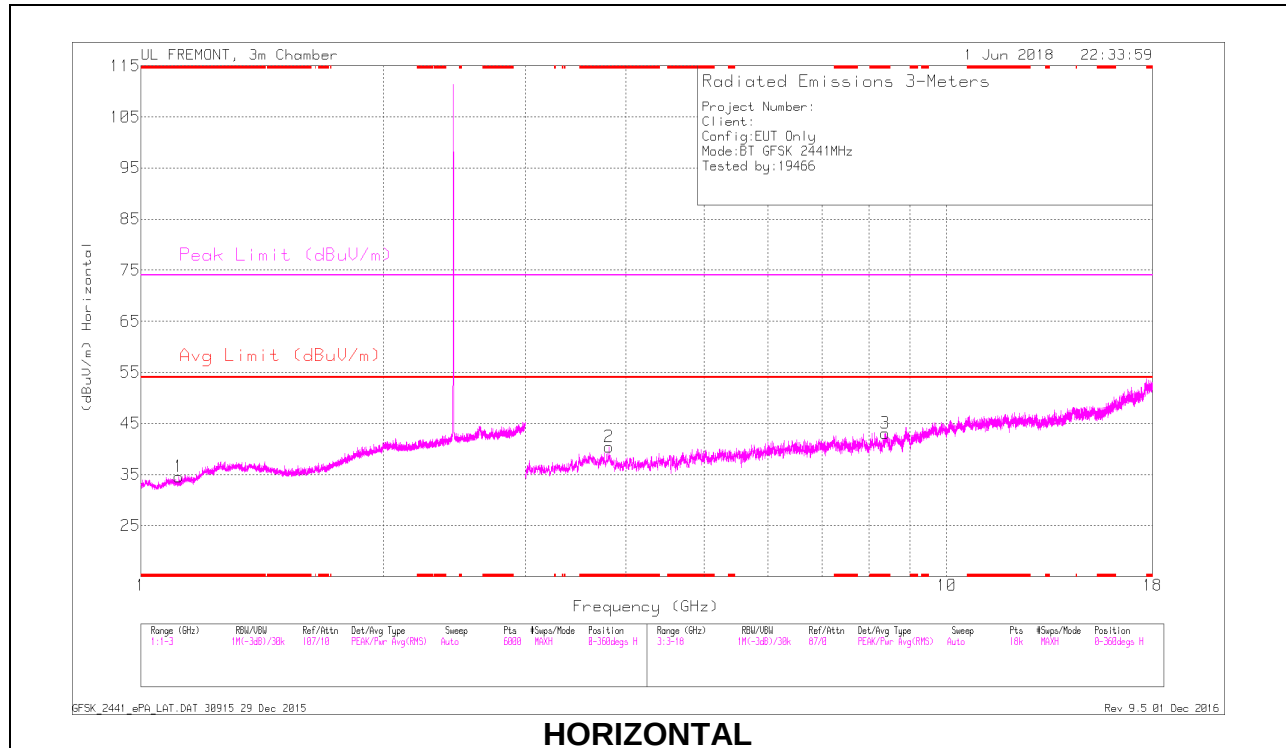
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.249	35.65	PKFH	29.9	-22.7	42.85	-	-	74	-31.15	118	391	H
	* 1.251	24.1	VA1T	29.9	-22.8	31.2	54	-22.8	-	-	118	391	H
2	* 3.649	39.78	PKFH	34.5	-28.6	45.68	-	-	74	-28.32	0	204	H
	* 3.652	27.72	VA1T	34.5	-28.8	33.42	54	-20.58	-	-	0	204	H
3	* 7.65	35.34	PKFH	35.8	-22.4	48.74	-	-	74	-25.26	298	117	H
	* 7.652	23.82	VA1T	35.8	-22.8	36.82	54	-17.18	-	-	298	117	H
4	* 5.02	36.28	PKFH	34.2	-24.2	46.28	-	-	74	-27.72	262	343	V
	* 5.02	24.45	VA1T	34.2	-24.2	34.45	54	-19.55	-	-	262	343	V
5	* 7.286	36.81	PKFH	35.7	-23.5	49.01	-	-	74	-24.99	284	161	V
	* 7.286	24.81	VA1T	35.7	-23.5	37.01	54	-16.99	-	-	284	161	V
6	* 11.725	35.31	PKFH	38.8	-21.8	52.31	-	-	74	-21.69	14	400	V
	* 11.723	23.52	VA1T	38.8	-21.8	40.52	54	-13.48	-	-	14	400	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

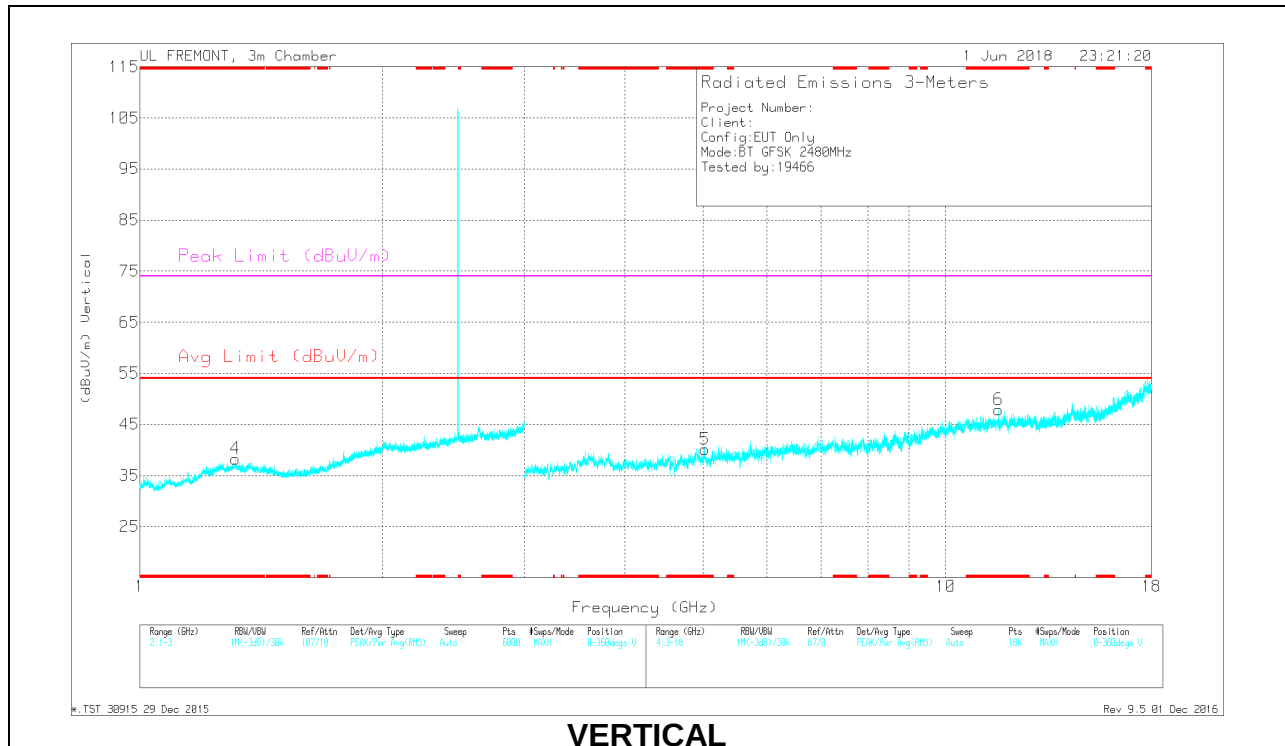
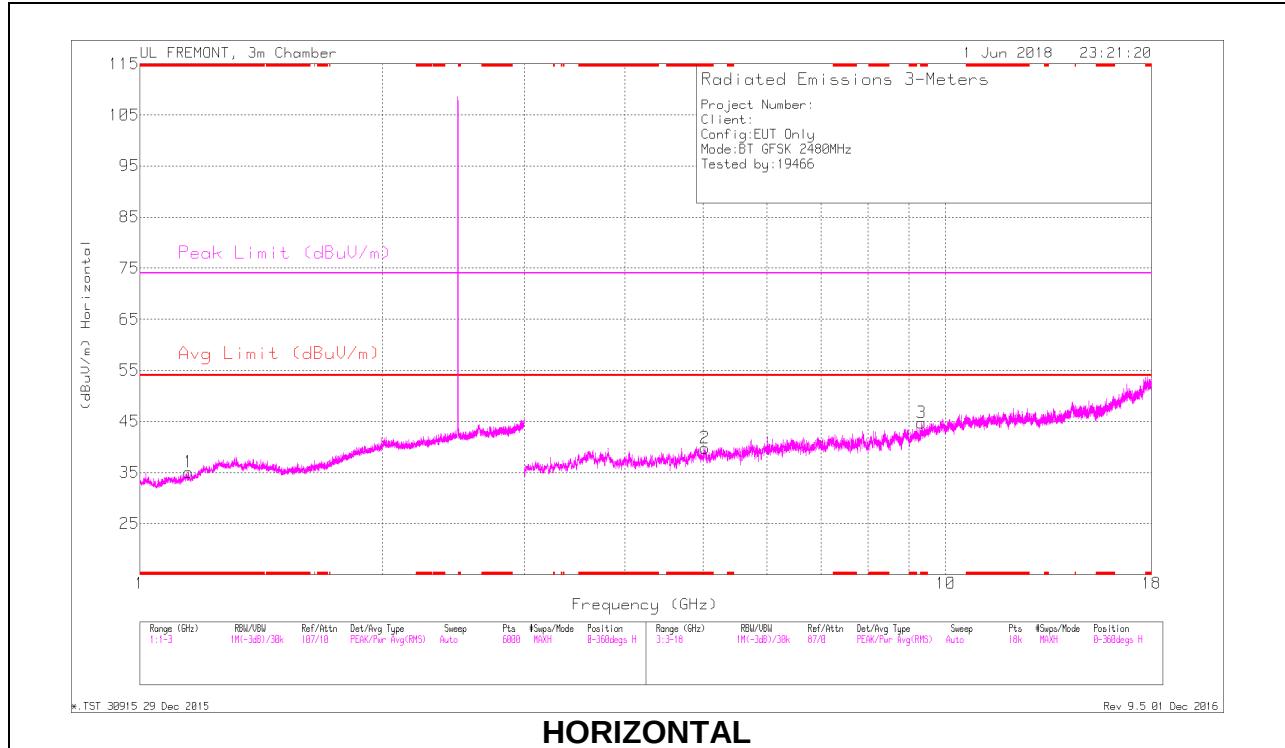
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.115	35.8	PKFH	27.9	-23.2	40.5	-	-	74	-33.5	164	393	H
	* 1.113	23.52	VA1T	27.9	-23.2	28.22	54	-25.78	-	-	164	393	H
4	* 1.282	35.23	PKFH	29.9	-22.6	42.53	-	-	74	-31.47	54	279	V
	* 1.283	23.54	VA1T	29.9	-22.6	30.84	54	-23.16	-	-	54	279	V
2	* 3.812	39.38	PKFH	33.7	-27.1	45.98	-	-	74	-28.02	2	103	H
	* 3.813	27.61	VA1T	33.7	-27.2	34.11	54	-19.89	-	-	2	103	H
3	* 8.382	34.87	PKFH	35.7	-21.2	49.37	-	-	74	-24.63	130	395	H
	* 8.384	23.41	VA1T	35.7	-21.4	37.71	54	-16.29	-	-	130	395	H
5	* 3.812	38.69	PKFH	33.7	-26.9	45.49	-	-	74	-28.51	153	341	V
	* 3.813	27.46	VA1T	33.7	-27.1	34.06	54	-19.94	-	-	153	341	V
6	* 7.653	35.91	PKFH	35.8	-23	48.71	-	-	74	-25.29	34	389	V
	* 7.655	23.95	VA1T	35.8	-23.6	36.15	54	-17.85	-	-	34	389	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

	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	* 1.149	36.03	PKFH	27.8	-23	40.83	-	-	74	-33.17	151	372	H
	* 1.146	24.1	VA1T	27.8	-23	28.9	54	-25.1	-	-	151	372	H
4	* 1.315	35.89	PKFH	29.8	-22.7	42.99	-	-	74	-31.01	186	372	V
	* 1.315	24.31	VA1T	29.8	-22.7	31.41	54	-22.59	-	-	186	372	V
2	* 5.022	37.1	PKFH	34.2	-24.4	46.9	-	-	74	-27.1	132	353	H
	* 5.022	24.47	VA1T	34.2	-24.4	34.27	54	-19.73	-	-	132	353	H
3	* 9.337	34.44	PKFH	36.5	-20.7	50.24	-	-	74	-23.76	193	134	H
	* 9.34	22.54	VA1T	36.5	-20.8	38.24	54	-15.76	-	-	193	134	H
5	* 5.023	36.36	PKFH	34.2	-24.7	45.86	-	-	74	-28.14	323	345	V
	* 5.025	24.72	VA1T	34.2	-25.3	33.62	54	-20.38	-	-	323	345	V
6	* 11.632	35.43	PKFH	38.7	-21.2	52.93	-	-	74	-21.07	212	399	V
	* 11.631	22.96	VA1T	38.7	-21.3	40.36	54	-13.64	-	-	212	399	V

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

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

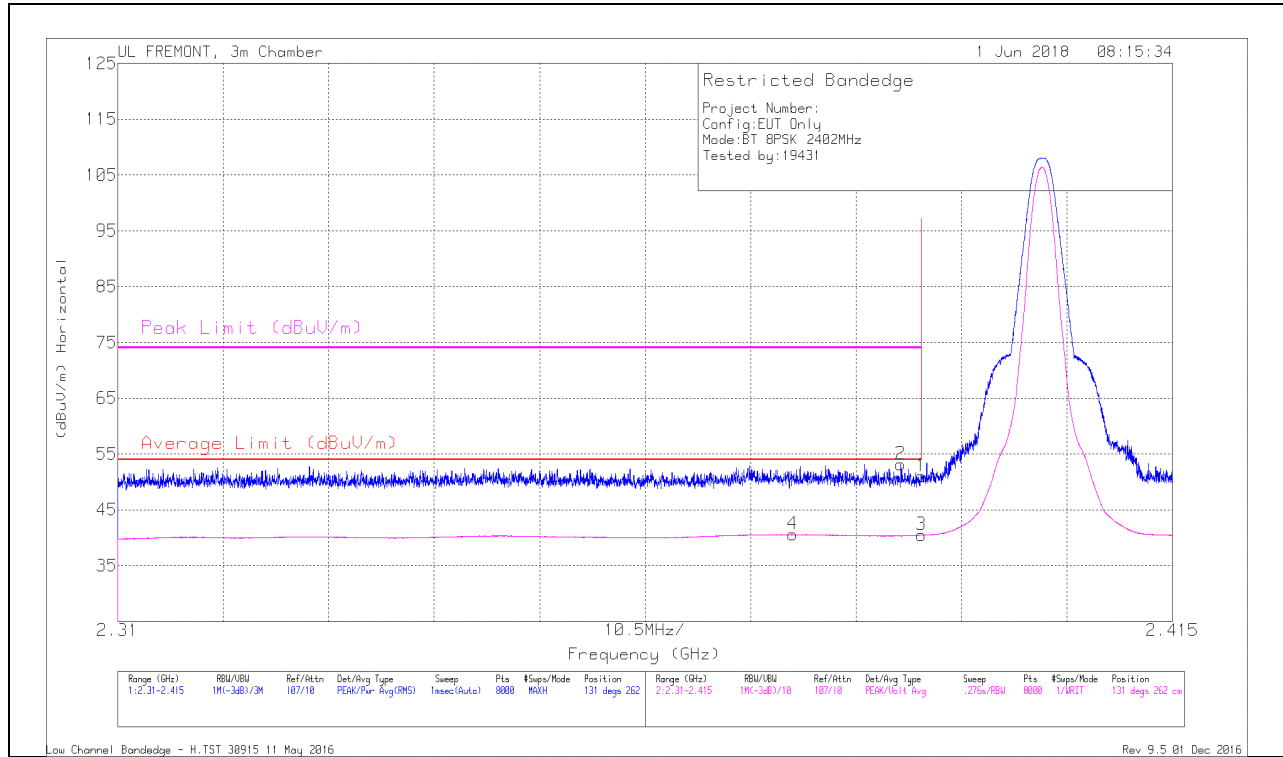
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.2. HIGH POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

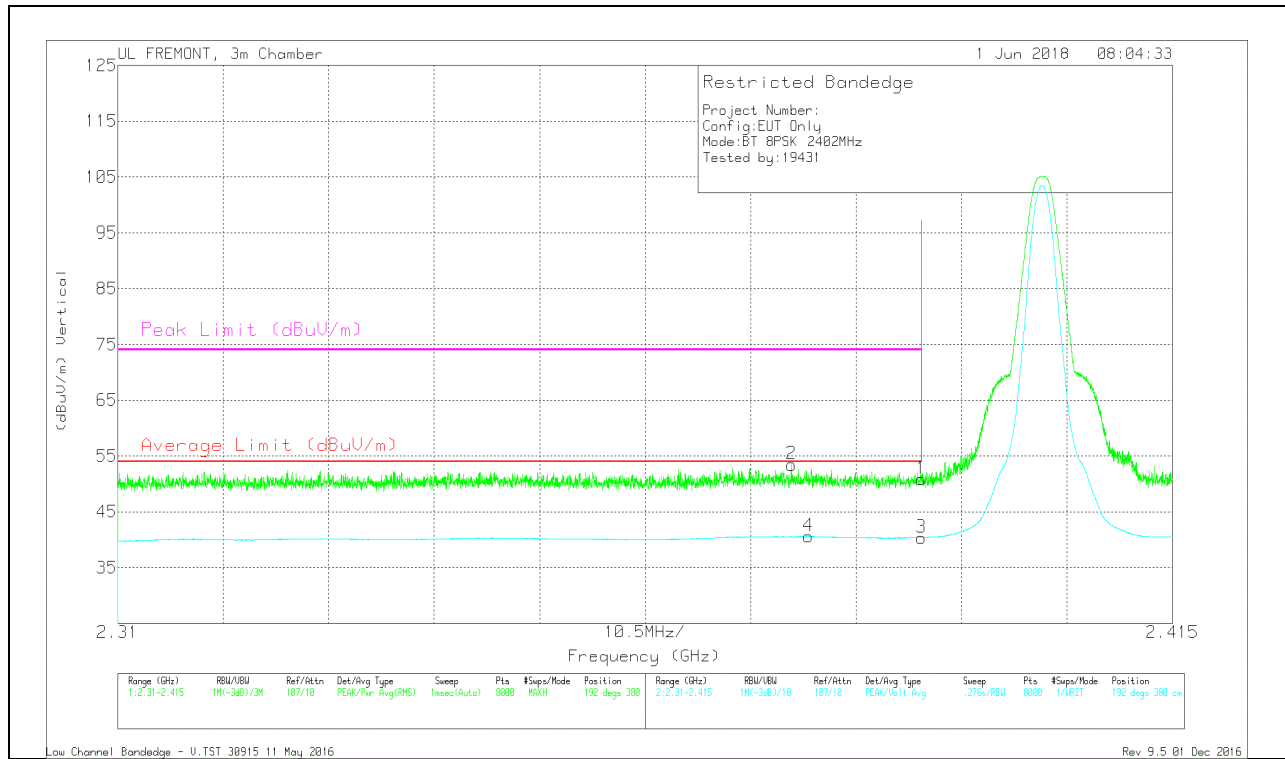


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.377	29.36	VA1T	31.8	-20.6	40.56	54	-13.44	-	-	131	262	H
2	2.388	41.84	Pk	31.9	-20.6	53.14	-	-	74	-20.86	131	262	H
1	2.39	39.76	Pk	31.9	-20.6	51.06	-	-	74	-22.94	131	262	H
3	2.39	29.15	VA1T	31.9	-20.6	40.45	54	-13.55	-	-	131	262	H

Pk - Peak detector

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

VERTICAL RESULT



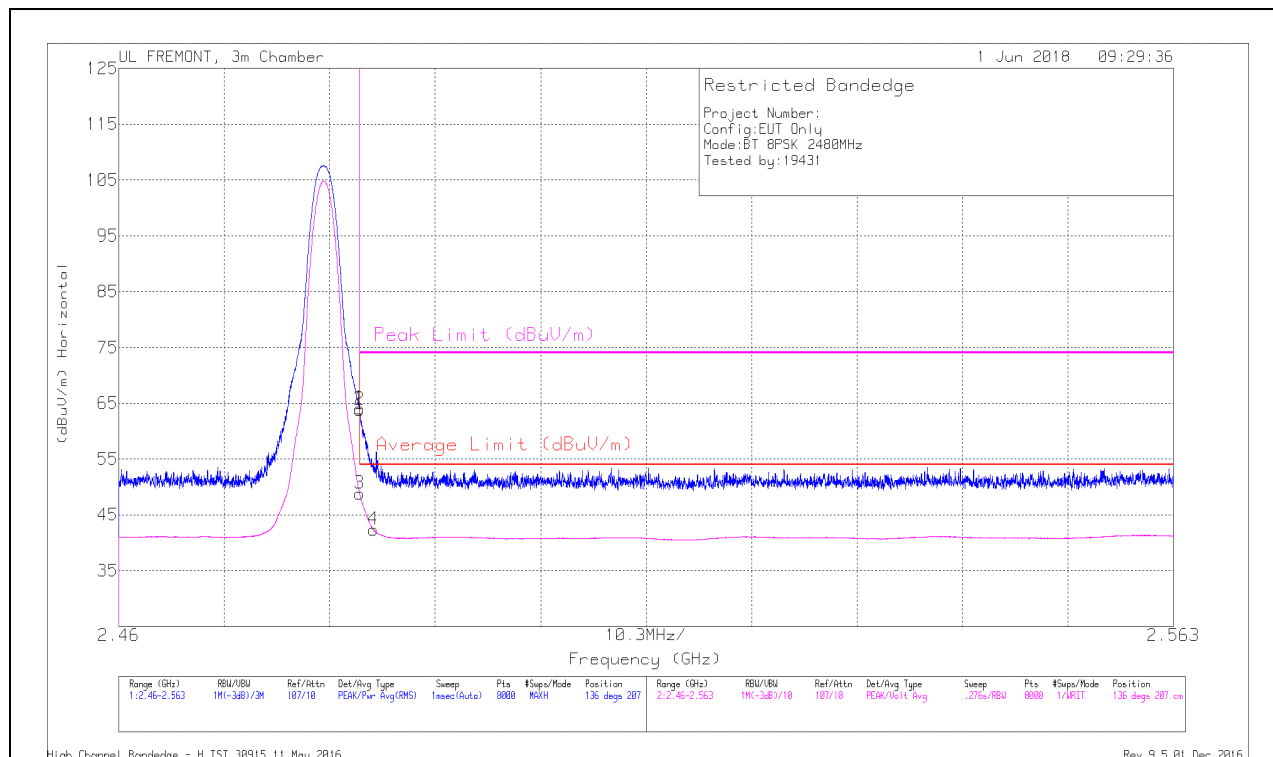
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.377	42.26	Pk	31.8	-20.6	53.46	-	-	74	-20.54	192	380	V
4	2.379	29.39	VA1T	31.8	-20.6	40.59	54	-13.41	-	-	192	380	V
1	2.39	39.57	Pk	31.9	-20.6	50.87	-	-	74	-23.13	192	380	V
3	2.39	29.09	VA1T	31.9	-20.6	40.39	54	-13.61	-	-	192	380	V

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

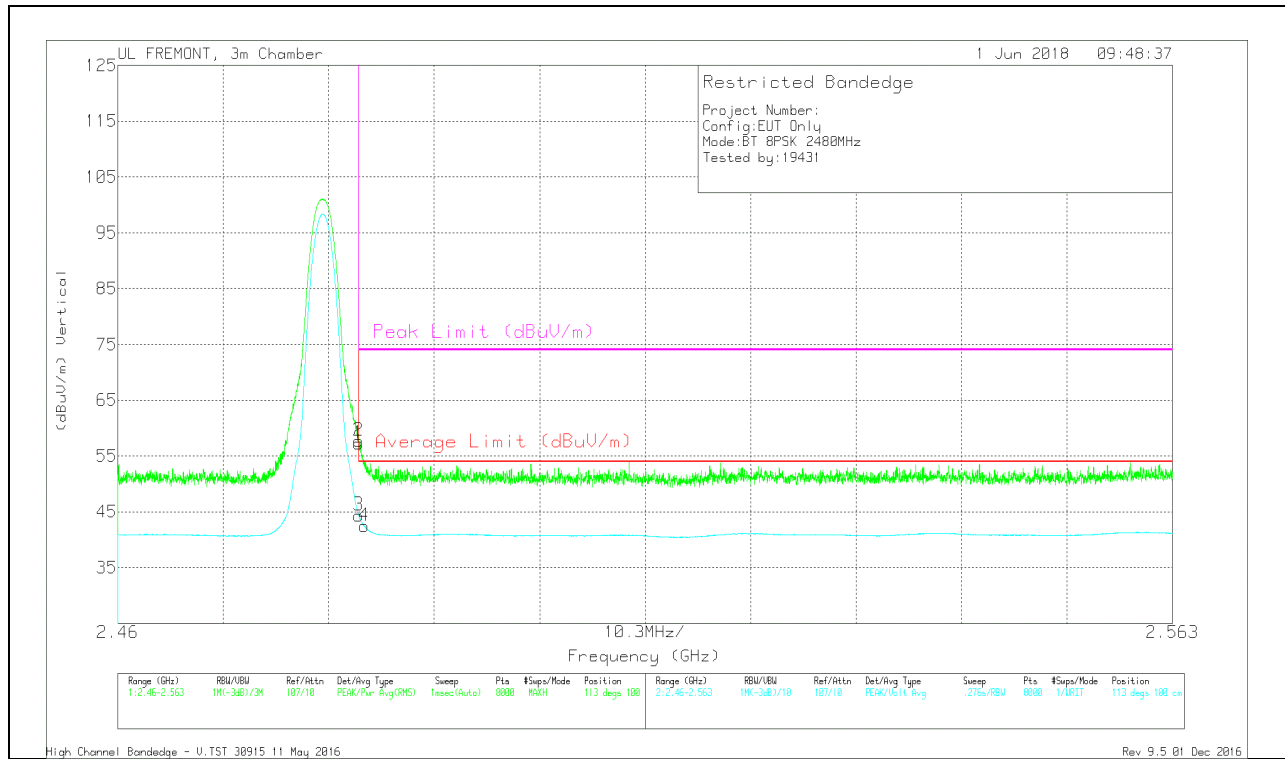


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	52.61	Pk	32.2	-20.7	64.11	-	-	74	-9.89	136	207	H
2	2.484	52.37	Pk	32.2	-20.7	63.87	-	-	74	-10.13	136	207	H
3	2.484	37.33	VA1T	32.2	-20.7	48.83	54	-5.17	-	-	136	207	H
4	2.485	30.92	VA1T	32.2	-20.8	42.32	54	-11.68	-	-	136	207	H

Pk - Peak detector

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

VERTICAL RESULT



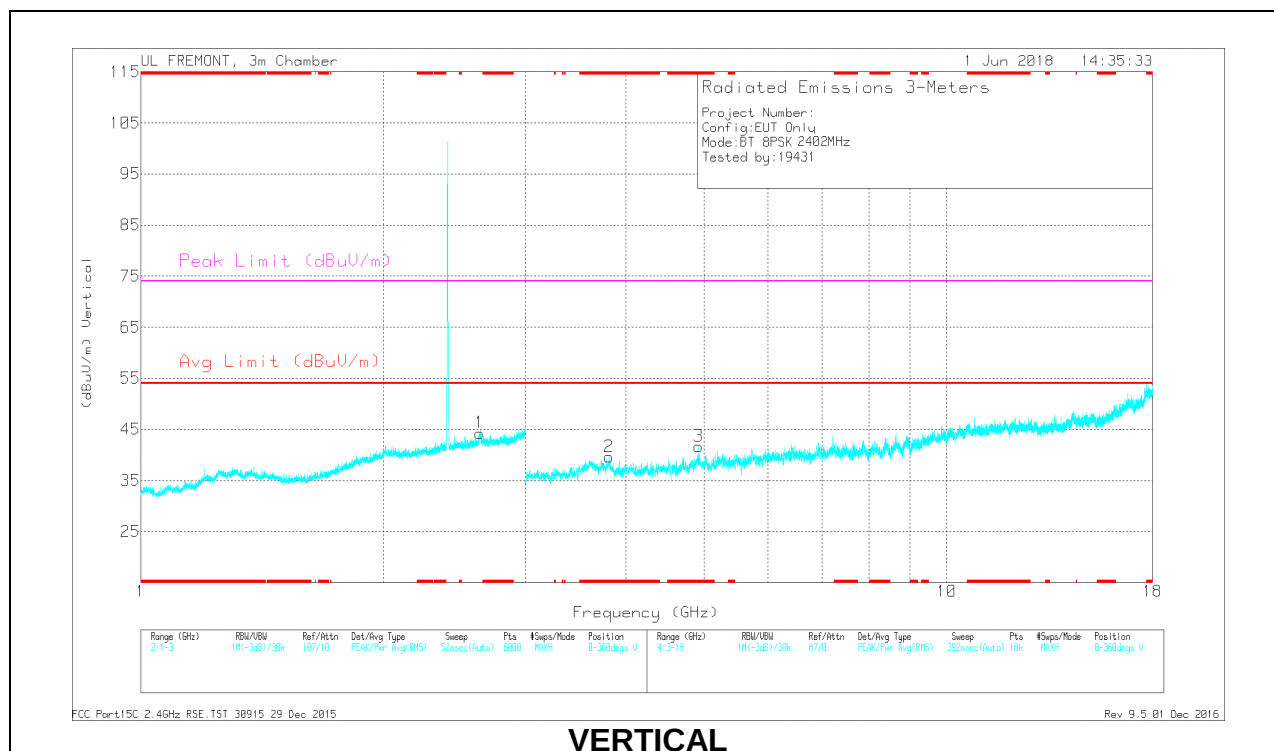
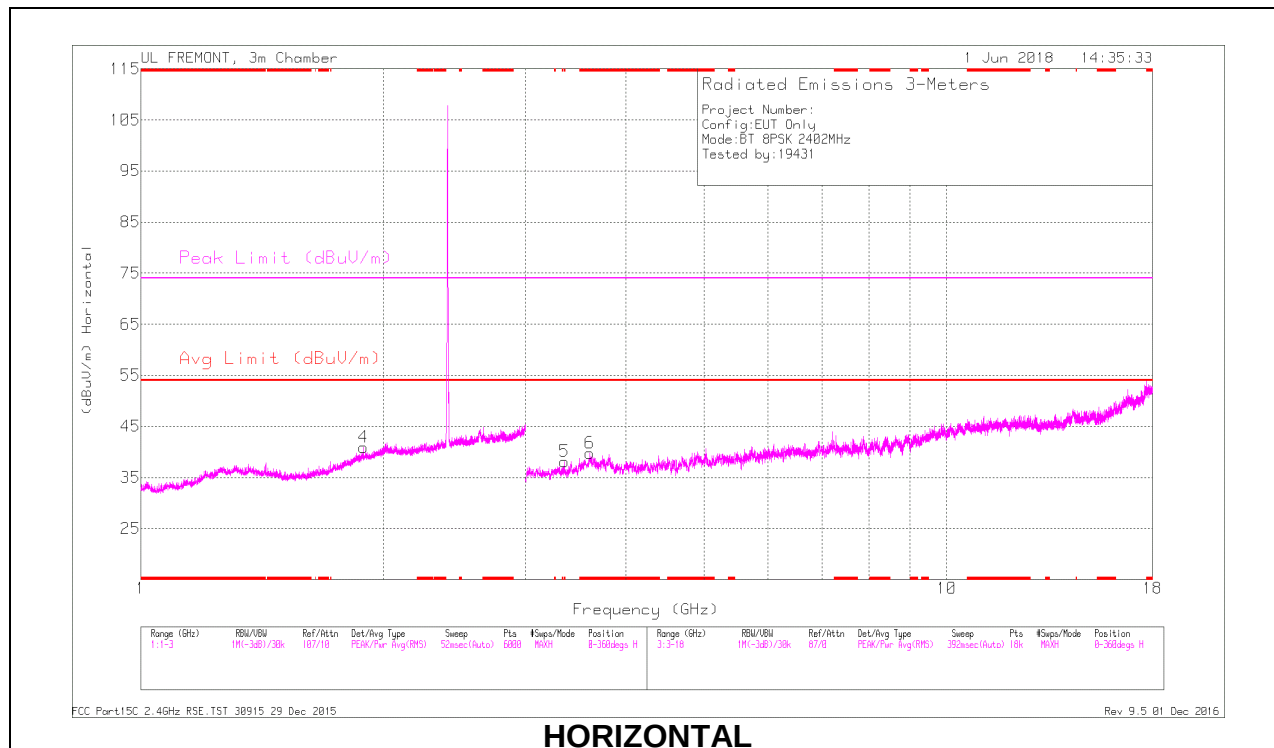
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Ampl/Cbl/Filtr/Pat (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	45.78	Pk	32.2	-20.7	57.28	-	-	74	-16.72	113	100	V
2	2.484	46.21	Pk	32.2	-20.7	57.71	-	-	74	-16.29	113	100	V
3	2.484	32.89	VA1T	32.2	-20.7	44.39	54	-9.61	-	-	113	100	V
4	2.484	30.96	VA1T	32.2	-20.7	42.46	54	-11.54	-	-	113	100	V

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

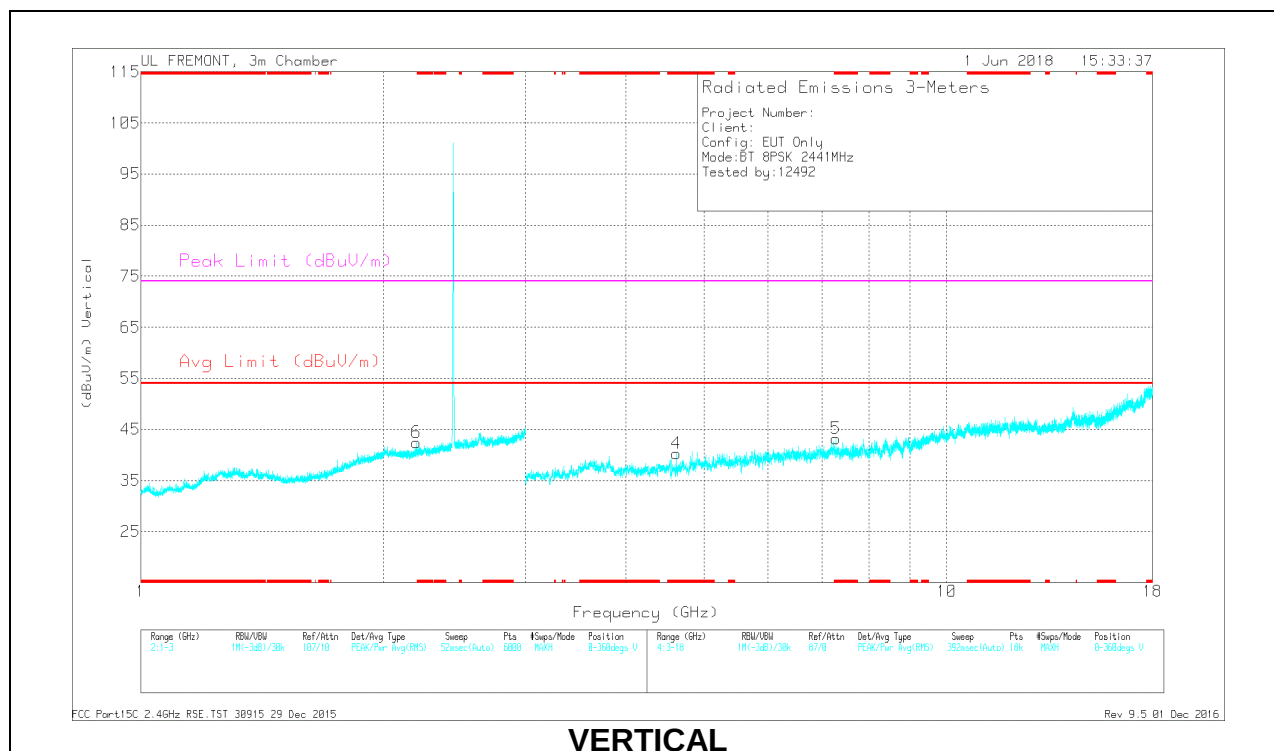
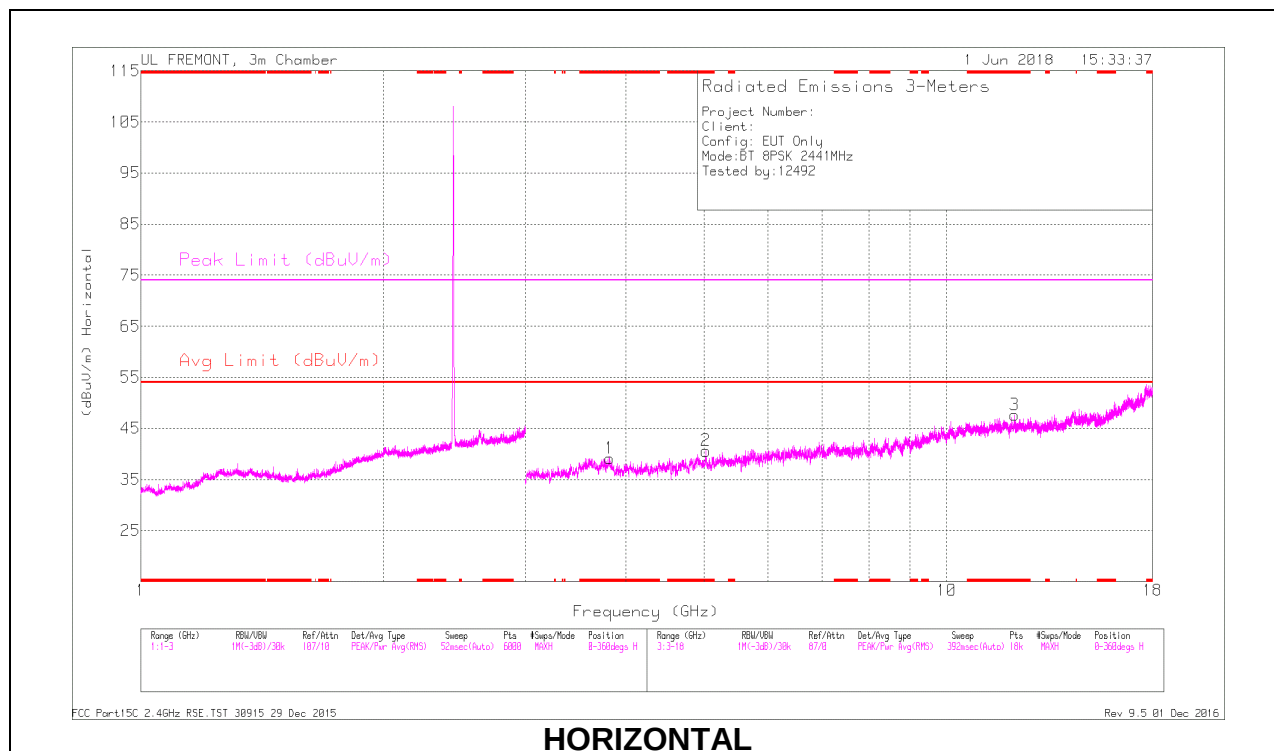
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 3.354	38.43	PKFH	33.5	-28.4	43.53	-	-	74	-30.47	161	122	H
	* 3.353	26.37	VA1T	33.5	-28.2	31.67	54	-22.33	-	-	161	122	H
6	* 3.609	39.72	PKFH	34.7	-28.9	45.52	-	-	74	-28.48	173	255	H
	* 3.608	28.12	VA1T	34.7	-28.9	33.92	54	-20.08	-	-	173	255	H
2	* 3.81	39.31	PKFH	33.7	-26.7	46.31	-	-	74	-27.69	0	209	V
	* 3.813	27.51	VA1T	33.7	-27.2	34.01	54	-19.99	-	-	0	209	V
3	* 4.92	38.68	PKFH	34	-27.9	44.78	-	-	74	-29.22	76	213	V
	* 4.92	27.47	VA1T	34	-27.9	33.57	54	-20.43	-	-	76	213	V
4	1.89	36.16	PKFH	31.3	-21.9	45.56	-	-	-	-	101	319	H
1	2.631	37.83	PKFH	32.5	-20.2	50.13	-	-	-	-	333	213	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

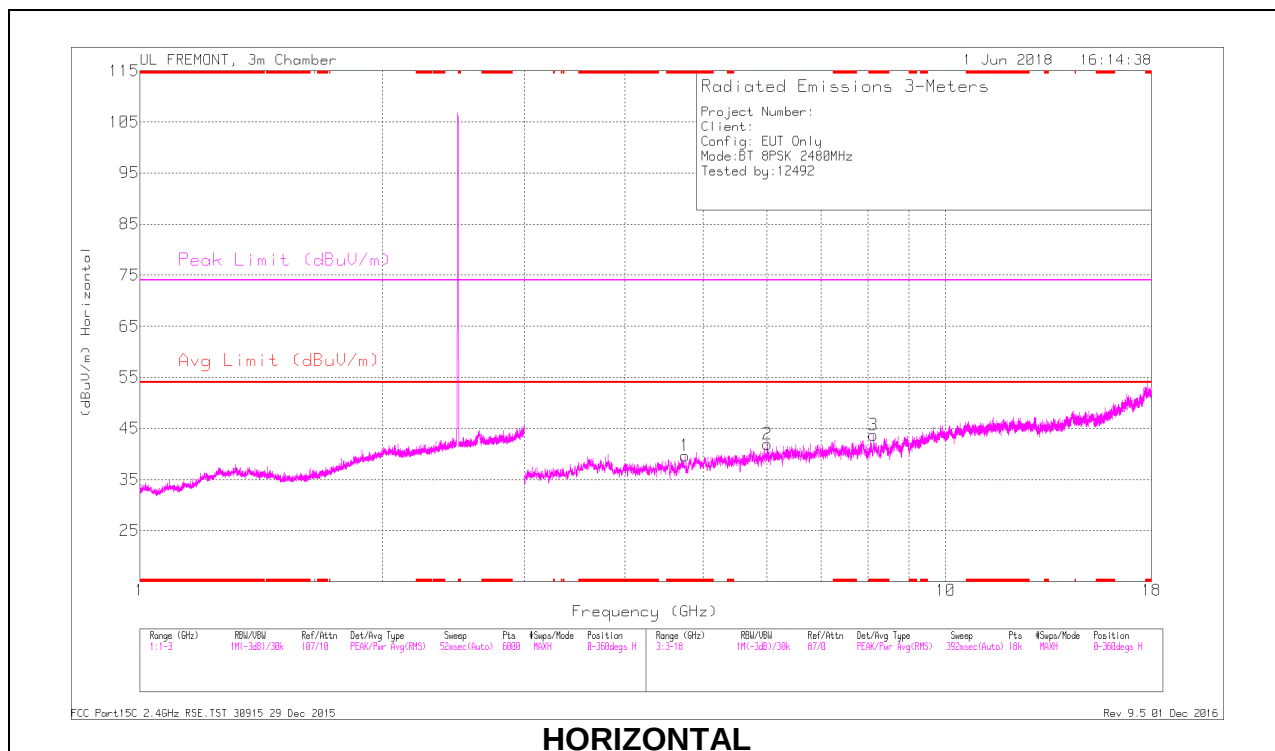
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.25	37.7	PKFH	31.9	-21.4	48.2	-	-	74	-25.8	303	198	V
	* 2.3	25.03	VA1T	31.7	-21.7	35.03	54	-18.97	-	-	303	198	V
2	* 3.814	39.57	PKFH	33.7	-27.5	45.77	-	-	74	-28.23	101	397	H
	* 3.815	27.77	VA1T	33.7	-27.8	33.67	54	-20.33	-	-	101	397	H
3	* 5.025	36.8	PKFH	34.2	-25.1	45.9	-	-	74	-28.1	354	332	H
	* 5.025	24.93	VA1T	34.2	-25.3	33.83	54	-20.17	-	-	354	332	H
4	* 12.145	35.07	PKFH	39.1	-21	53.17	-	-	74	-20.83	223	207	H
	* 12.144	23.3	VA1T	39.1	-20.9	41.5	54	-12.5	-	-	223	207	H
5	* 4.616	38.29	PKFH	34.1	-26.8	45.59	-	-	74	-28.41	106	396	V
	* 4.617	26.33	VA1T	34.1	-27.1	33.33	54	-20.67	-	-	106	396	V
6	* 7.285	36.74	PKFH	35.7	-23.2	49.24	-	-	74	-24.76	253	306	V
	* 7.288	25.04	VA1T	35.7	-24	36.74	54	-17.26	-	-	253	306	V

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

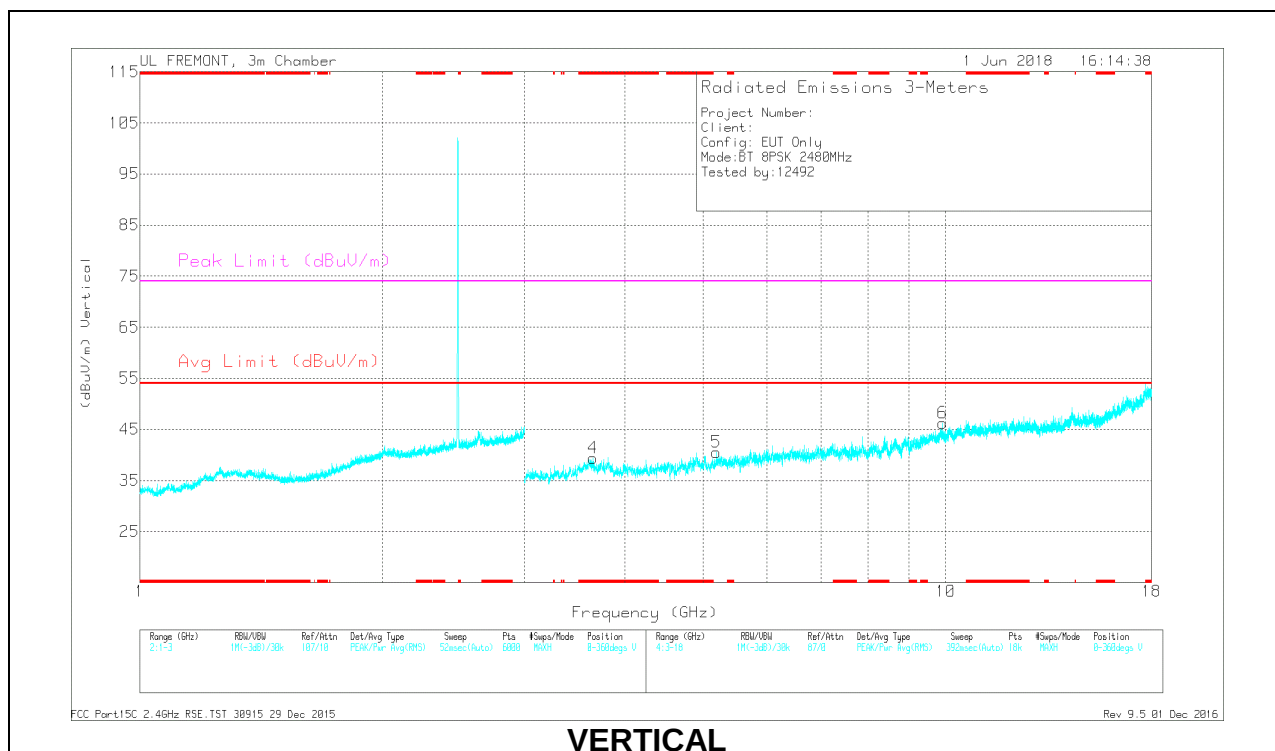
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	* 4.748	38.82	PKFH	34	-28	44.82	-	-	74	-29.18	165	400	H
	* 4.746	27.26	VA1T	34	-28	33.26	54	-20.74	-	-	165	400	H
3	* 8.136	35.62	PKFH	35.8	-23.2	48.22	-	-	74	-25.78	233	136	H
	* 8.133	23.98	VA1T	35.8	-22.9	36.88	54	-17.12	-	-	233	136	H
4	* 3.653	39.9	PKFH	34.5	-28.8	45.6	-	-	74	-28.4	351	161	V
	* 3.651	27.78	VA1T	34.5	-28.7	33.58	54	-20.42	-	-	351	161	V
5	5.19	38.91	PKFH	34.4	-27.4	45.91	-	-	-	-	337	188	V
2	6.013	36.95	PKFH	35.3	-25.4	46.85	-	-	-	-	22	344	H
6	9.912	34.93	PKFH	37.3	-20.3	51.93	-	-	-	-	307	103	V

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

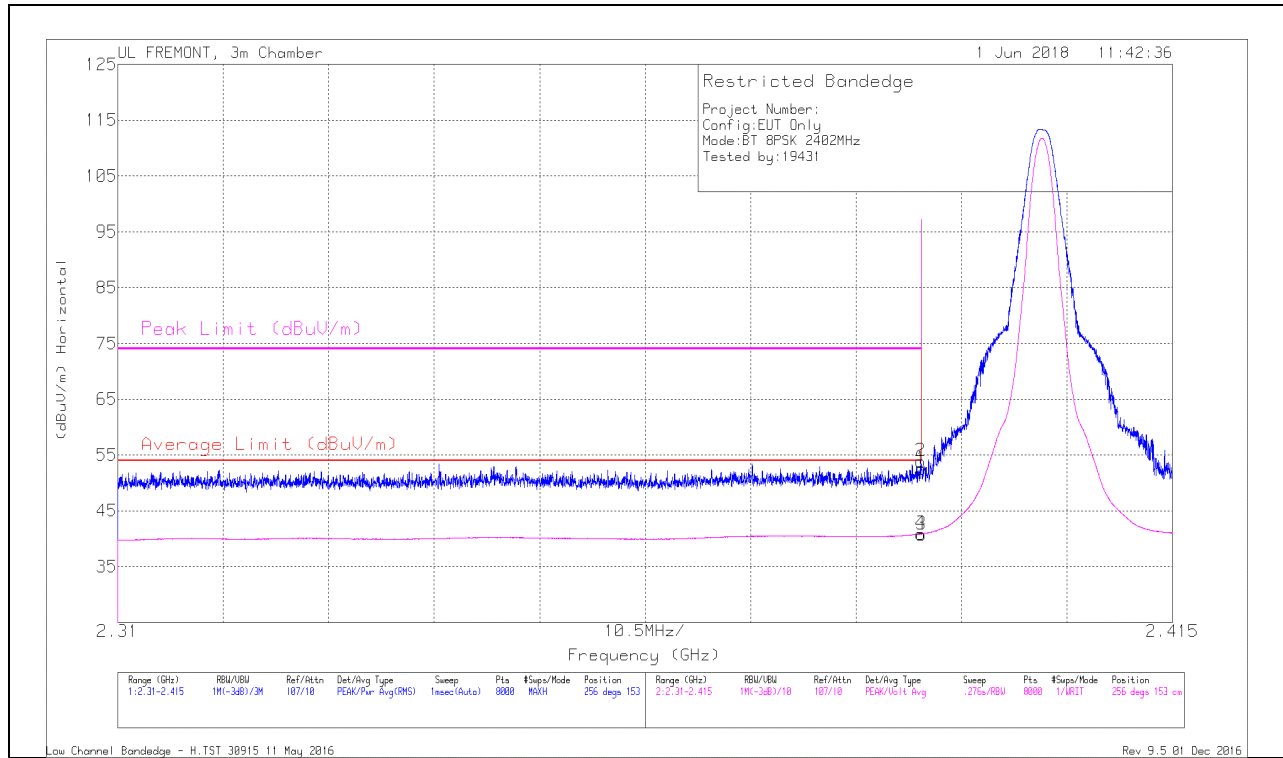
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

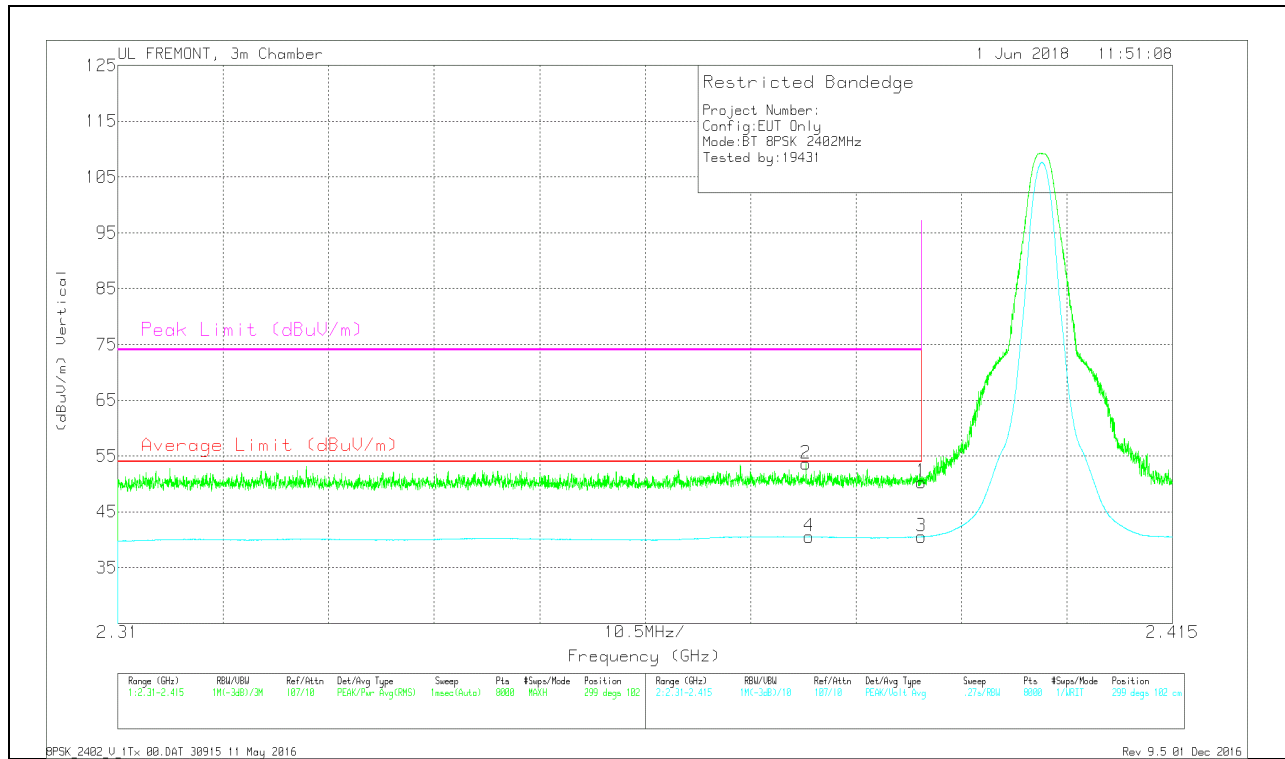


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	41.18	Pk	31.9	-20.6	52.48	-	-	74	-21.52	256	153	H
2	2.39	42.64	Pk	31.9	-20.6	53.94	-	-	74	-20.06	256	153	H
3	2.39	29.49	VA1T	31.9	-20.6	40.79	54	-13.21	-	-	256	153	H
4	2.39	29.54	VA1T	31.9	-20.6	40.84	54	-13.16	-	-	256	153	H

Pk - Peak detector

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

VERTICAL RESULT



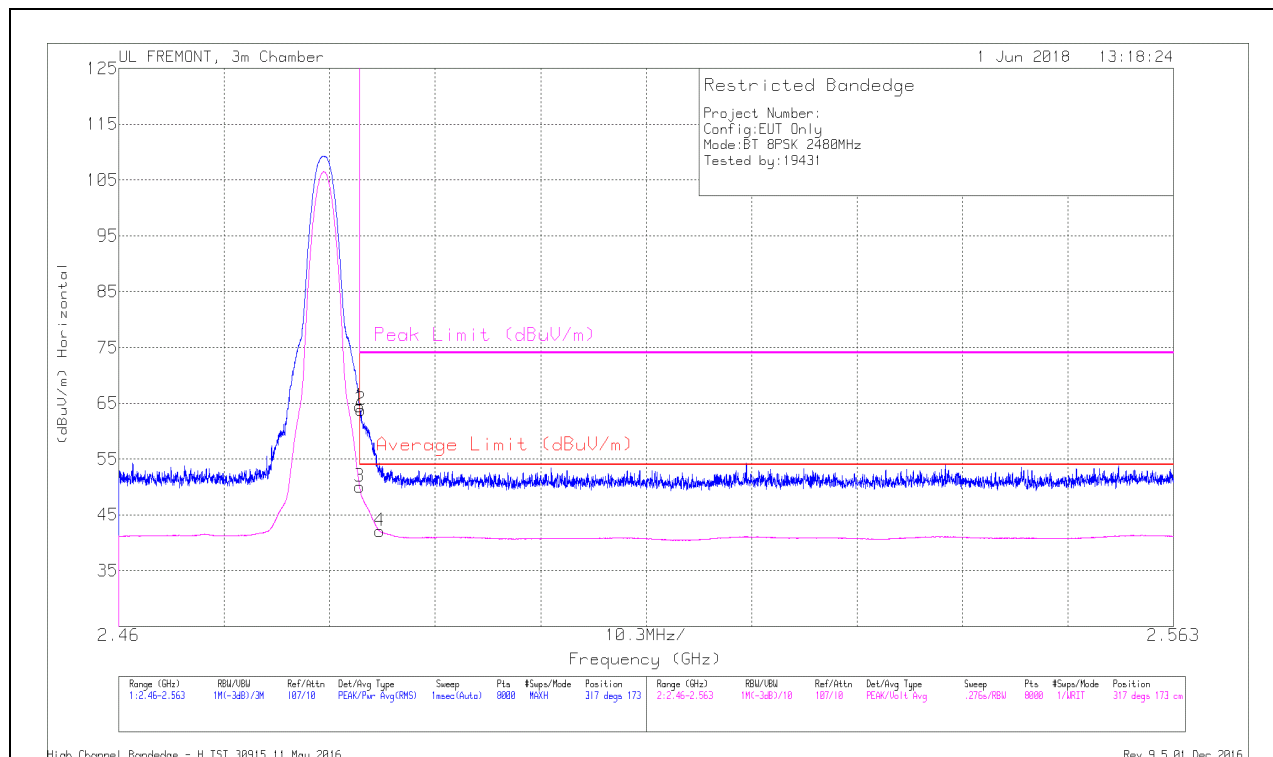
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.379	42.5	Pk	31.8	-20.6	53.7	-	-	74	-20.3	299	102	V
4	2.379	29.35	VA1T	31.8	-20.6	40.55	54	-13.45	-	-	299	102	V
1	2.39	39.05	Pk	31.9	-20.6	50.35	-	-	74	-23.65	299	102	V
3	2.39	29.25	VA1T	31.9	-20.6	40.55	54	-13.45	-	-	299	102	V

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

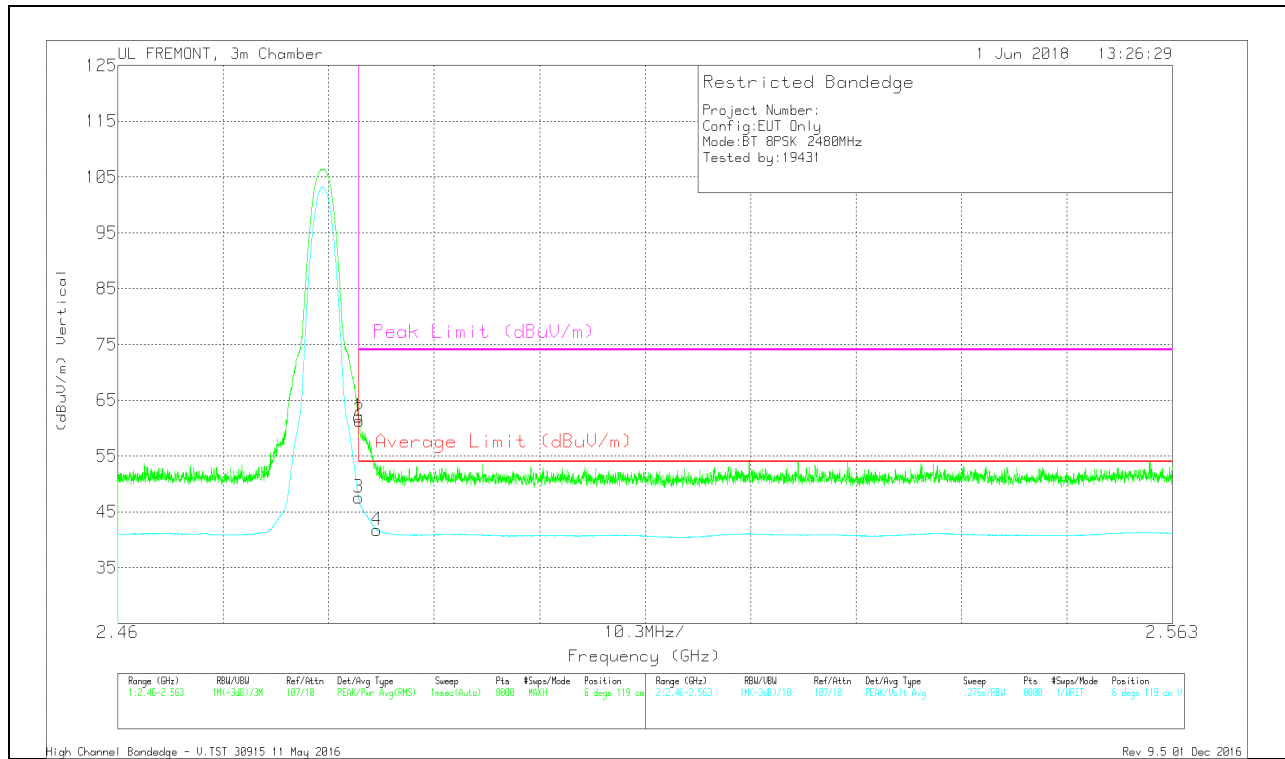


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	52.97	Pk	32.2	-20.7	64.47	-	-	74	-9.53	317	173	H
2	2.484	52.35	Pk	32.2	-20.7	63.85	-	-	74	-10.15	317	173	H
3	2.484	38.58	VA1T	32.2	-20.7	50.08	54	-3.92	-	-	317	173	H
4	2.485	30.71	VA1T	32.2	-20.8	42.11	54	-11.89	-	-	317	173	H

Pk - Peak detector

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

VERTICAL RESULT



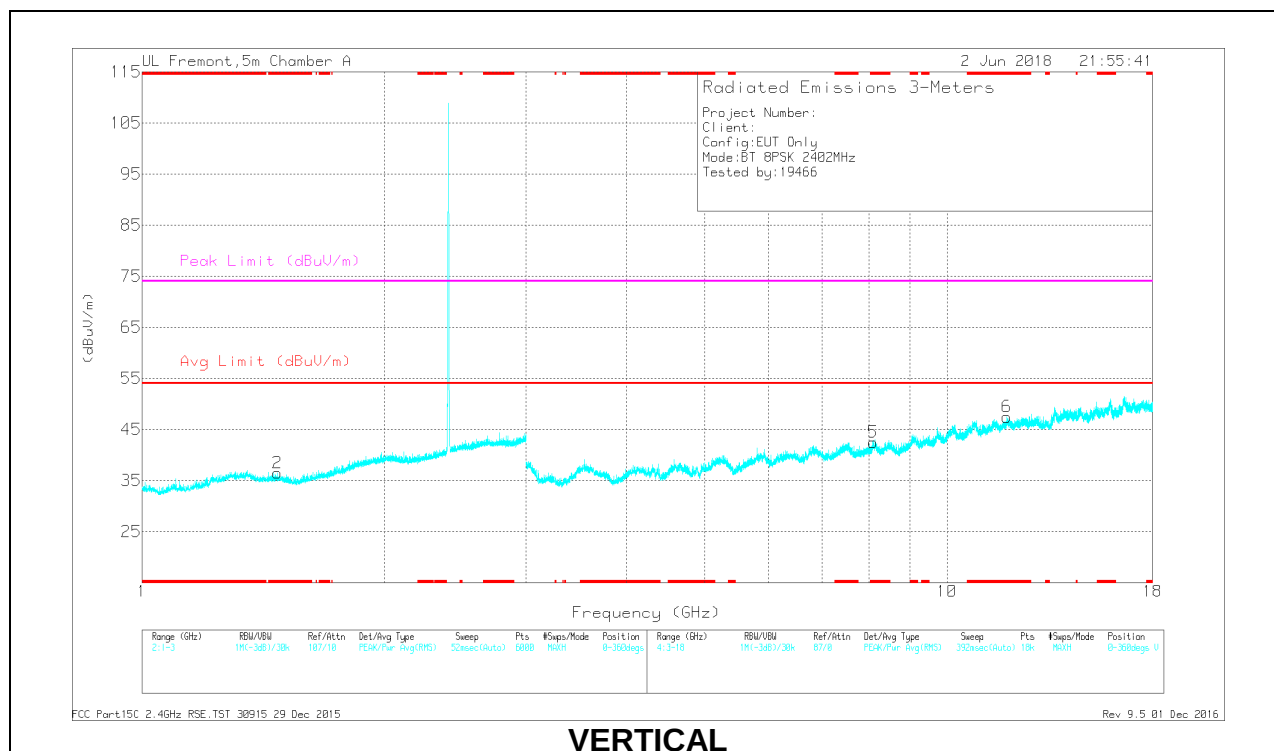
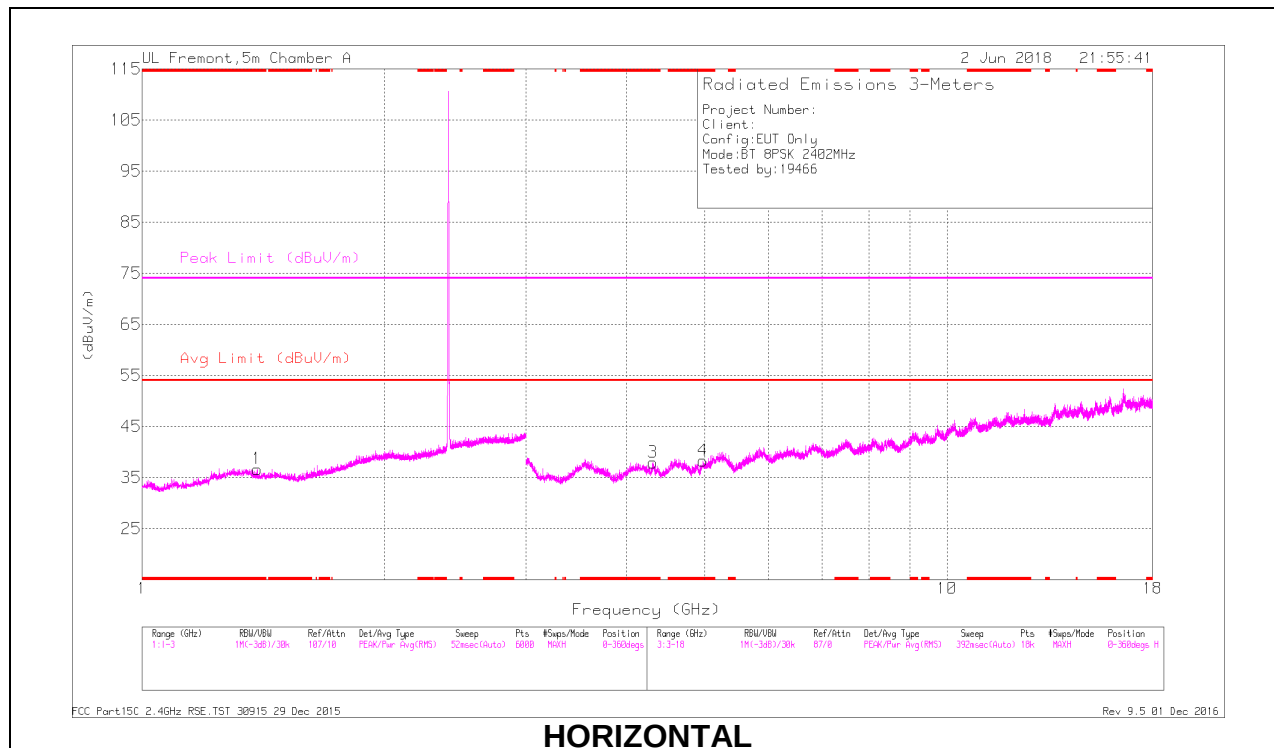
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Ampl/Cbl/Filtr/Pat (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	50.59	Pk	32.2	-20.7	62.09	-	-	74	-11.91	6	119	V
2	2.484	49.8	Pk	32.2	-20.7	61.3	-	-	74	-12.7	6	119	V
3	2.484	36.08	VA1T	32.2	-20.7	47.58	54	-6.42	-	-	6	119	V
4	2.485	30.35	VA1T	32.2	-20.8	41.75	54	-12.25	-	-	6	119	V

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

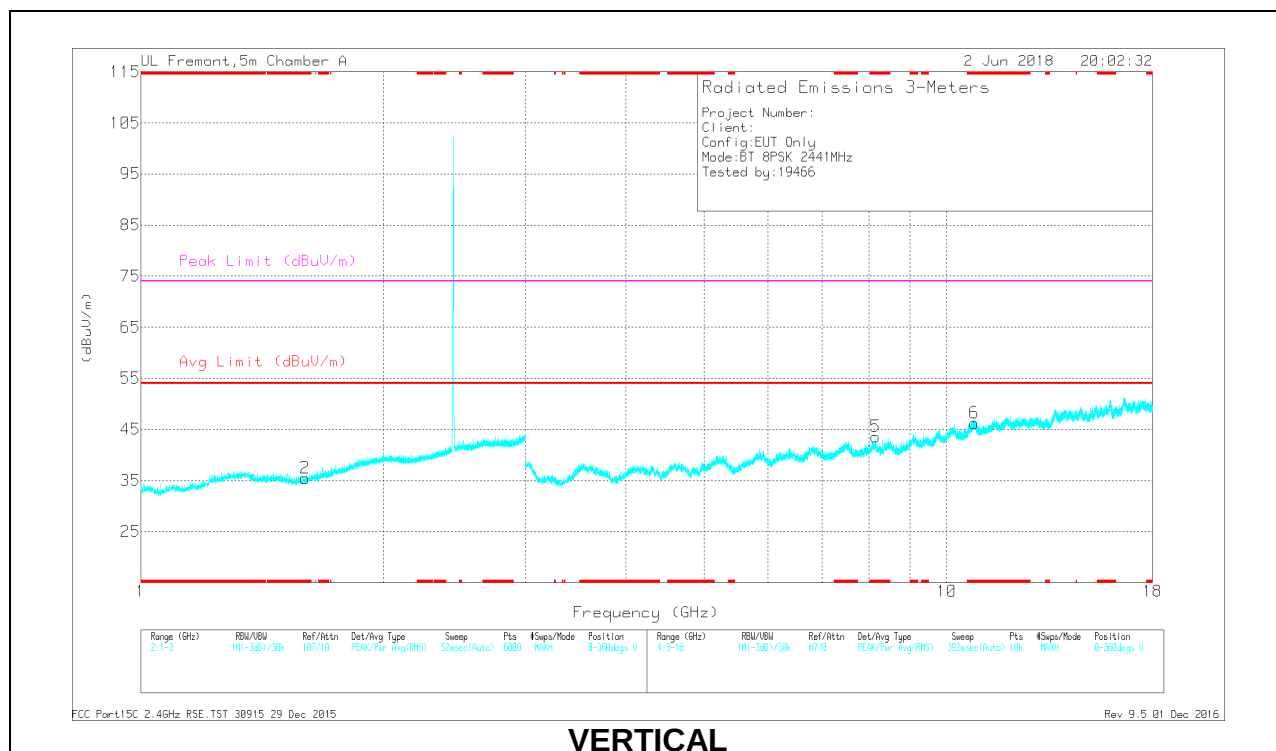
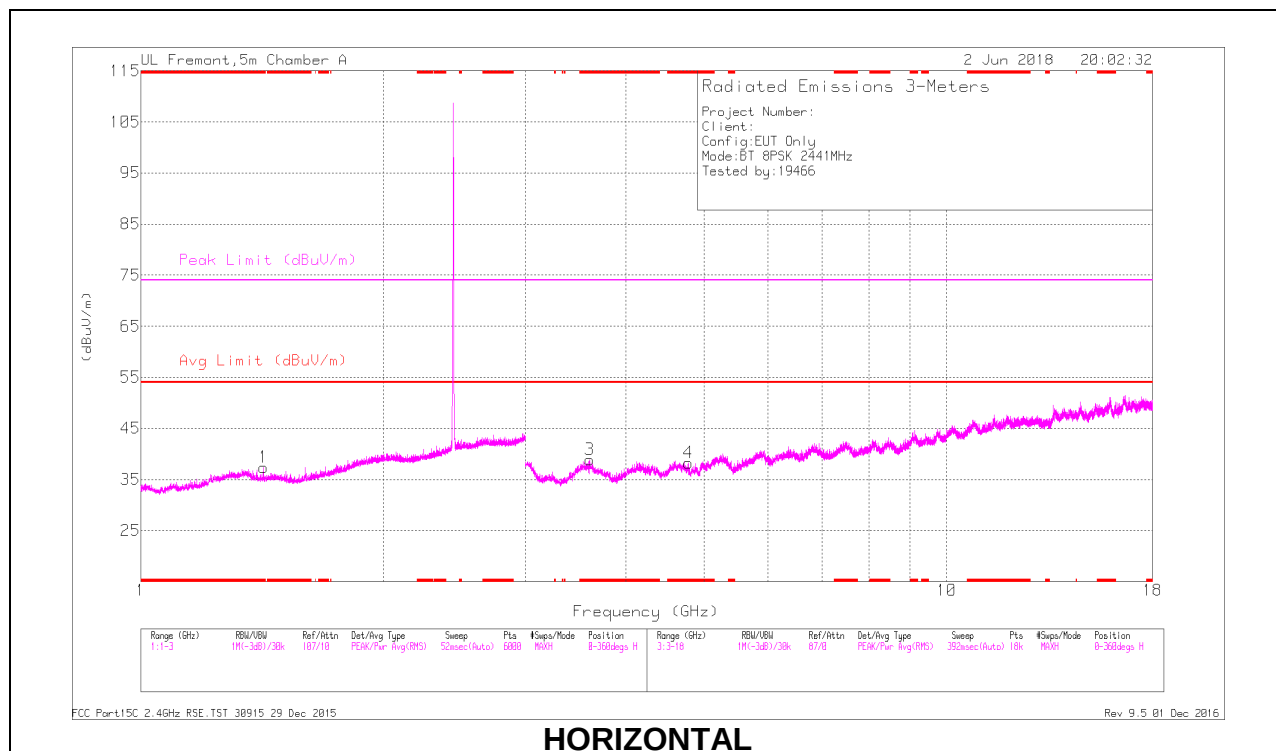
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.389	36.46	PKFH	28.8	-23.6	41.66	-	-	74	-32.34	9	145	H
	* 1.392	24.3	VA1T	28.7	-23.6	29.4	54	-24.6	-	-	9	145	H
2	* 1.474	35.88	PKFH	28.6	-23.4	41.08	-	-	74	-32.92	191	164	V
	* 1.472	24.46	VA1T	28.6	-23.4	29.66	54	-24.34	-	-	191	164	V
3	* 4.314	37.07	PKFH	33.6	-26.7	43.97	-	-	74	-30.03	160	203	H
	* 4.316	25.25	VA1T	33.6	-26.7	32.15	54	-21.85	-	-	160	203	H
4	* 4.978	37.14	PKFH	34.3	-27.6	43.84	-	-	74	-30.16	36	273	H
	* 4.977	25.8	VA1T	34.3	-27.6	32.5	54	-21.5	-	-	36	273	H
5	* 8.102	33.22	PKFH	35.8	-21.1	47.92	-	-	74	-26.08	267	107	V
	* 8.1	21.56	VA1T	35.8	-21	36.36	54	-17.64	-	-	267	107	V
6	* 11.868	32.35	PKFH	38.8	-17.8	53.35	-	-	74	-20.65	199	353	V
	* 11.865	20.31	VA1T	38.8	-17.9	41.21	54	-12.79	-	-	199	353	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

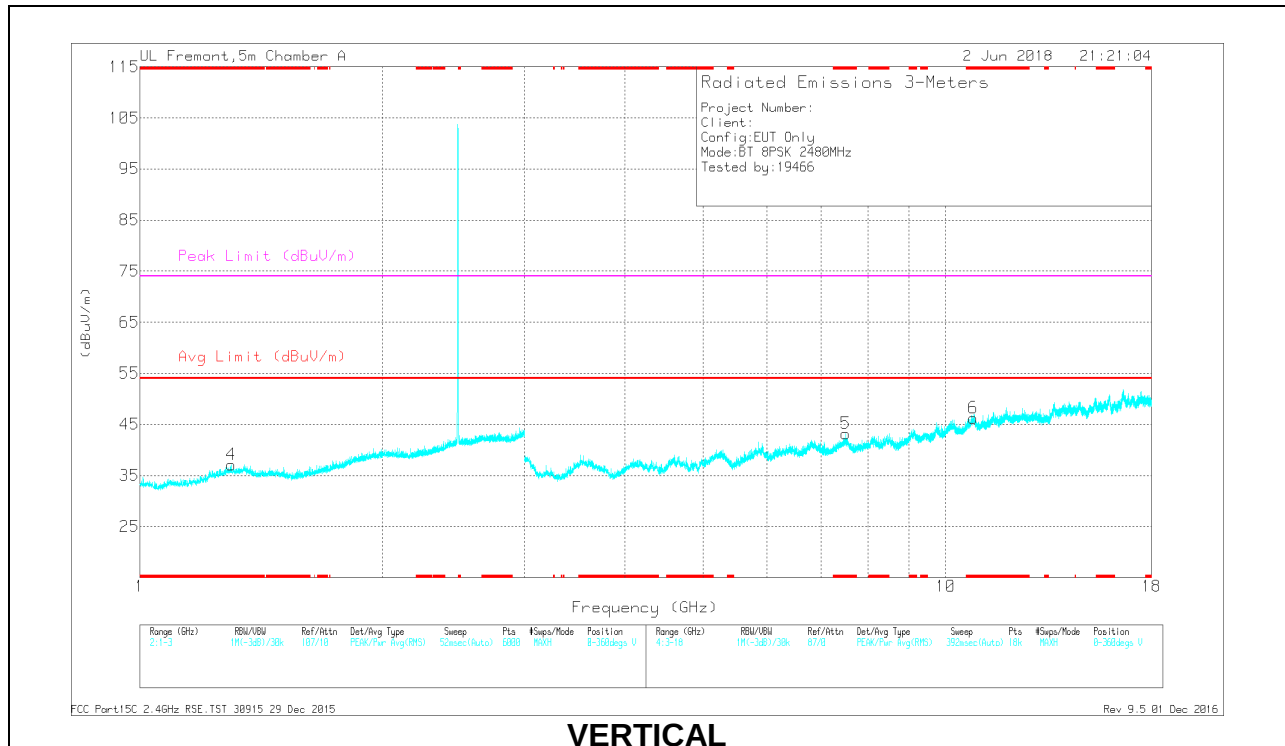
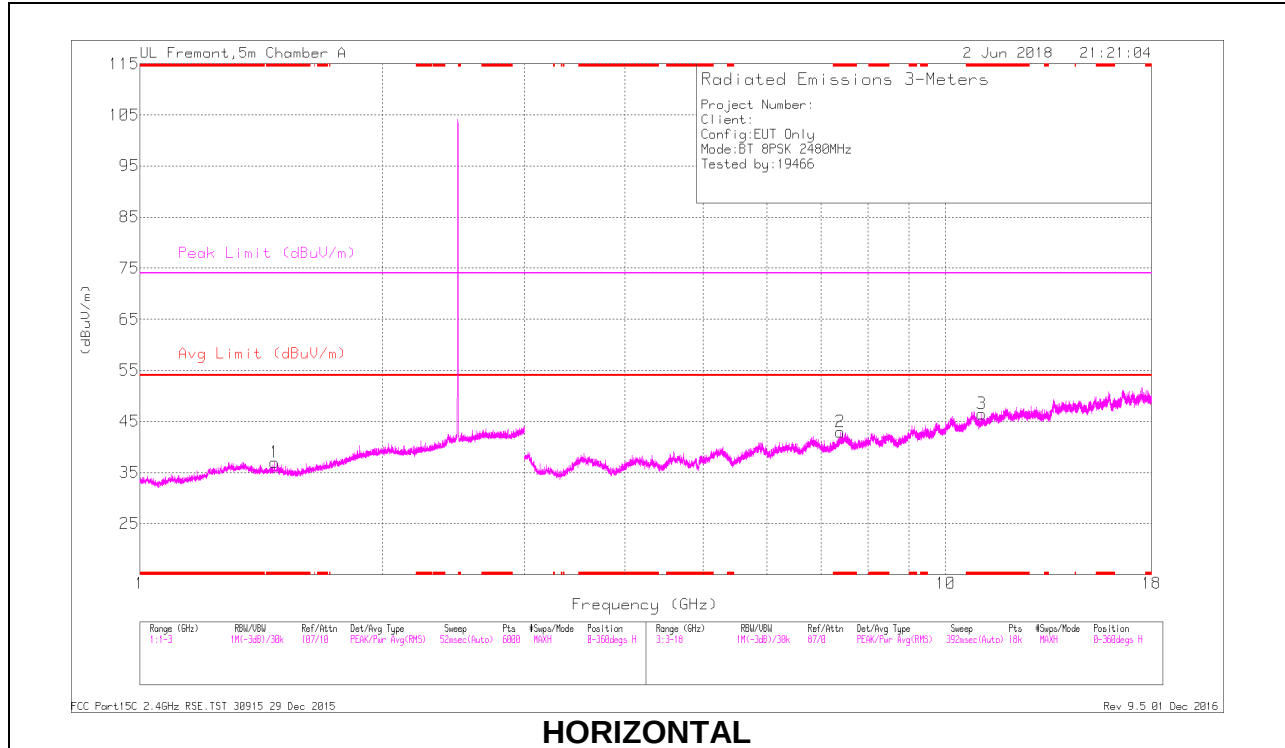
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.42	36.05	PKFH	28.7	-23.5	41.25	-	-	74	-32.75	47	274	H
	* 1.418	24.4	VA1T	28.7	-23.4	29.7	54	-24.3	-	-	47	274	H
2	* 1.597	36.55	PKFH	28.2	-23.4	41.35	-	-	74	-32.65	134	288	V
	* 1.599	24.62	VA1T	28.2	-23.4	29.42	54	-24.58	-	-	134	288	V
3	* 3.606	38.93	PKFH	33	-27.1	44.83	-	-	74	-29.17	211	122	H
	* 3.604	25.87	VA1T	33	-27.1	31.77	54	-22.23	-	-	211	122	H
4	* 4.778	37.33	PKFH	34.1	-27.4	44.03	-	-	74	-29.97	54	398	H
	* 4.778	24.64	VA1T	34.1	-27.4	31.34	54	-22.66	-	-	54	398	H
5	* 8.153	33.94	PKFH	35.8	-20.8	48.94	-	-	74	-25.06	351	160	V
	* 8.156	21.45	VA1T	35.8	-20.9	36.35	54	-17.65	-	-	351	160	V
6	* 10.812	33.2	PKFH	37.8	-18.1	52.9	-	-	74	-21.1	319	165	V
	* 10.812	20.51	VA1T	37.8	-18.1	40.21	54	-13.79	-	-	319	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

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	* 1.47	37.04	PKFH	28.6	-23.4	42.24	-	-	74	-31.76	313	177	H
	* 1.471	24.47	VA1T	28.6	-23.4	29.67	54	-24.33	-	-	313	177	H
4	* 1.299	36.48	PKFH	29.4	-23.6	42.28	-	-	74	-31.72	355	221	V
	* 1.296	24.37	VA1T	29.4	-23.6	30.17	54	-23.83	-	-	355	221	V
2	* 7.401	33.77	PKFH	35.6	-21.6	47.77	-	-	74	-26.23	192	165	H
	* 7.4	21.44	VA1T	35.6	-21.6	35.44	54	-18.56	-	-	192	165	H
3	* 11.08	32.44	PKFH	37.9	-19	51.34	-	-	74	-22.66	130	181	H
	* 11.082	20.63	VA1T	37.9	-19.1	39.43	54	-14.57	-	-	130	181	H
5	* 7.515	33.92	PKFH	35.7	-21.2	48.42	-	-	74	-25.58	168	211	V
	* 7.513	21.48	VA1T	35.7	-21.2	35.98	54	-18.02	-	-	168	211	V
6	* 10.825	32.66	PKFH	37.8	-17.7	52.76	-	-	74	-21.24	107	143	V
	* 10.823	20.47	VA1T	37.8	-17.8	40.47	54	-13.53	-	-	107	143	V

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

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

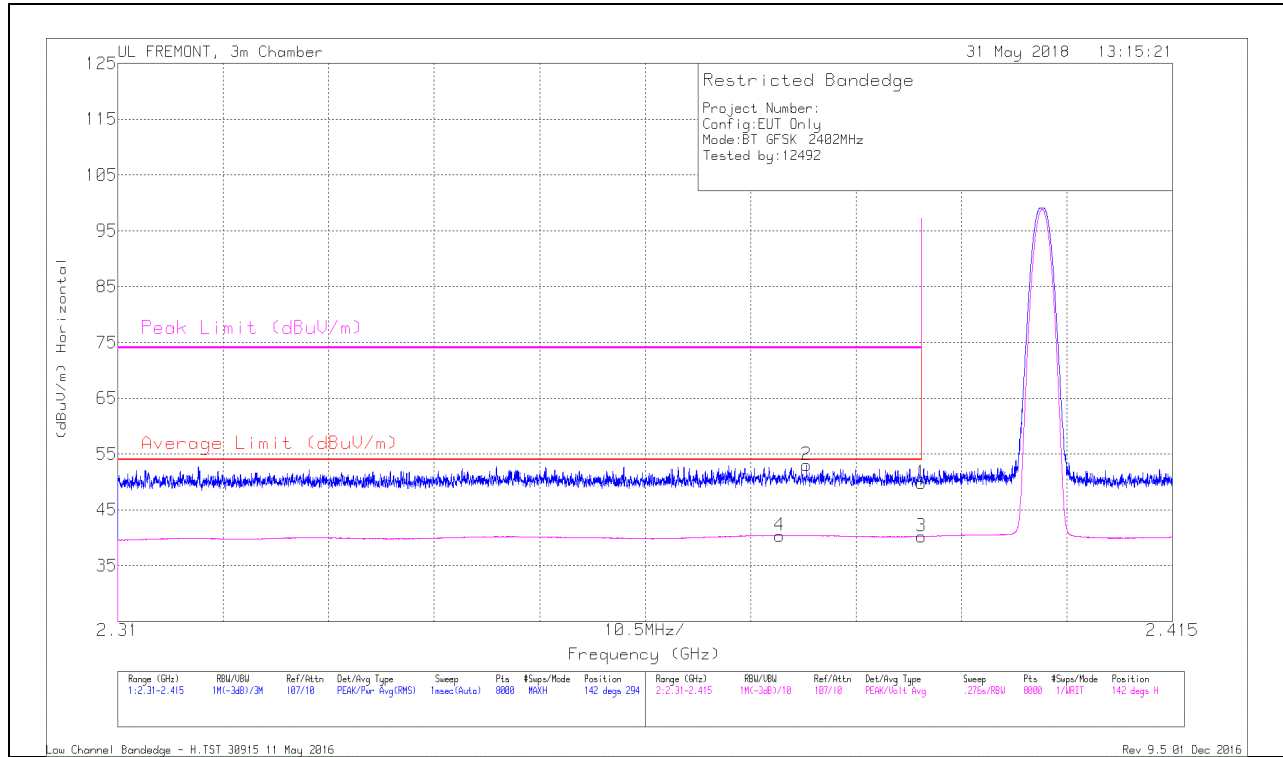
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.3. LOW POWER BASIC DATA RATE GFSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

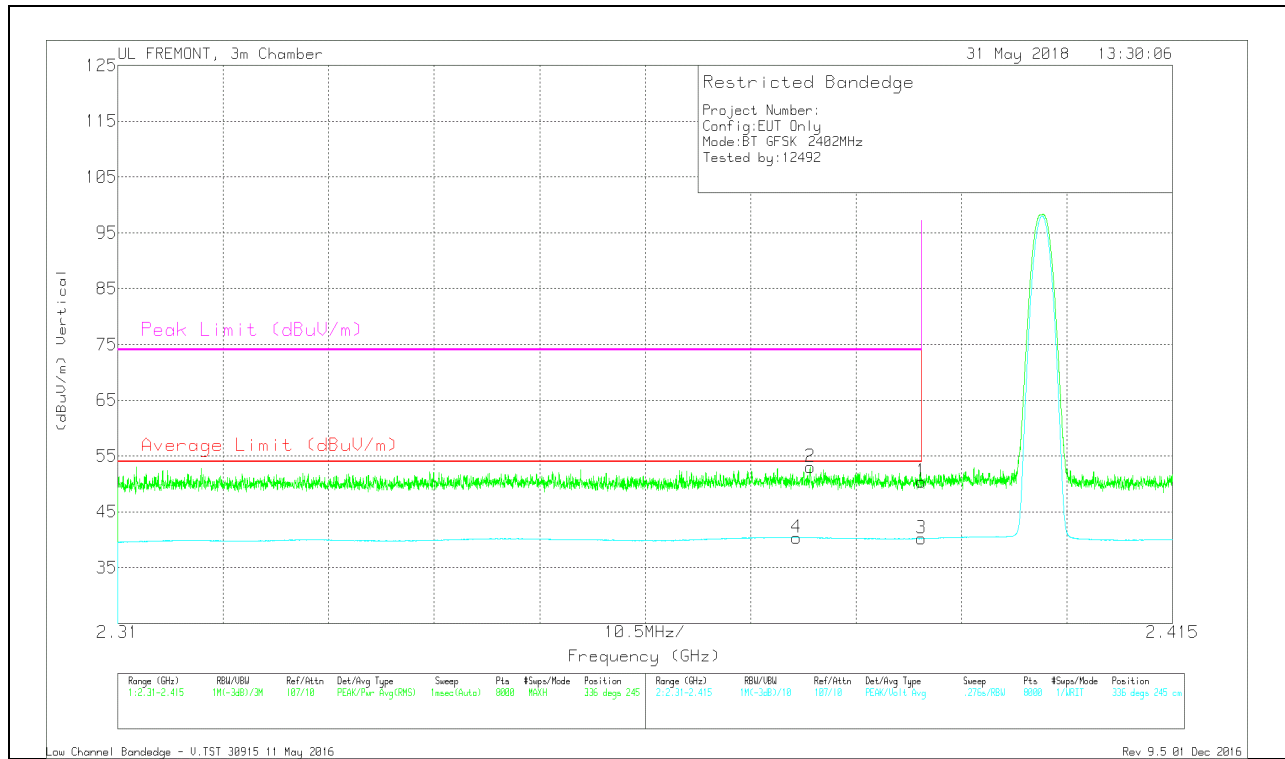


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.376	29.11	VA1T	31.8	-20.5	40.41	54	-13.59	-	-	142	294	H
2	2.379	41.81	Pk	31.8	-20.6	53.01	-	-	74	-20.99	142	294	H
1	2.39	38.48	Pk	31.9	-20.6	49.78	-	-	74	-24.22	142	294	H
3	2.39	28.89	VA1T	31.9	-20.6	40.19	54	-13.81	-	-	142	294	H

Pk - Peak detector

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

VERTICAL RESULT



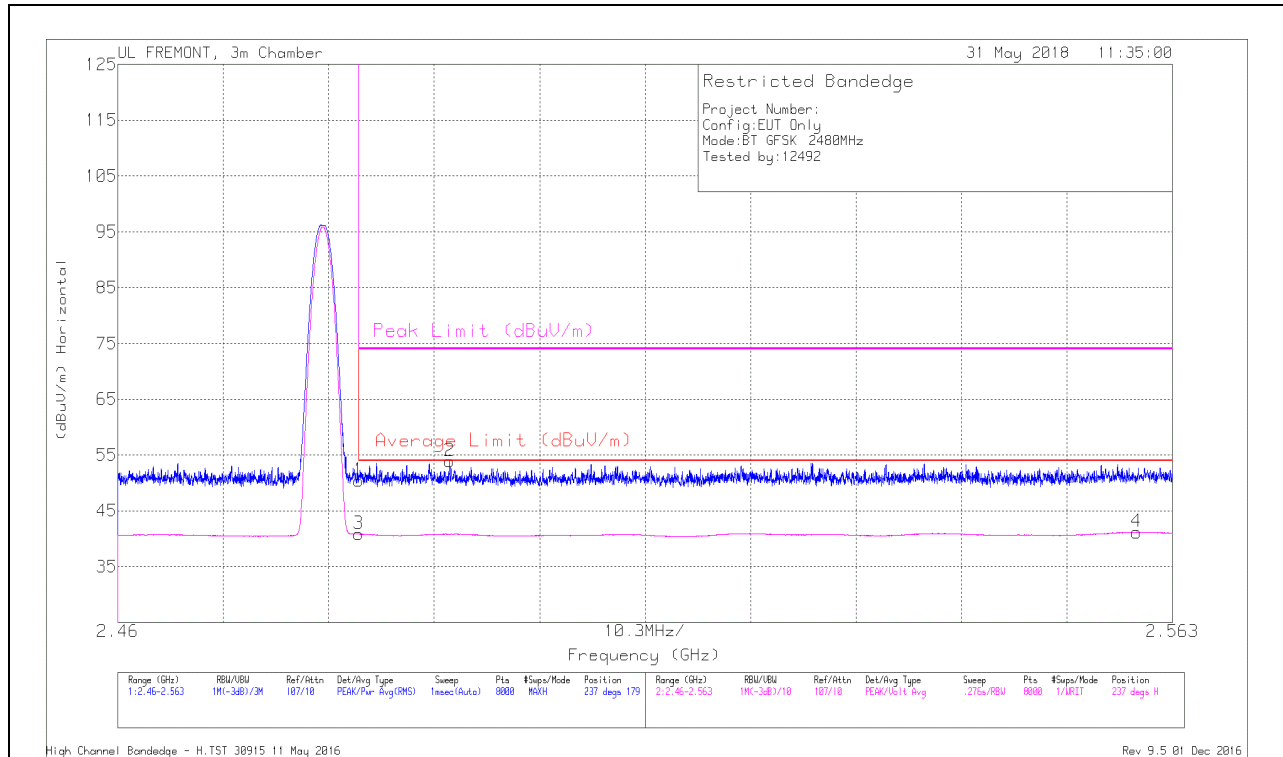
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.378	29.2	VA1T	31.8	-20.6	40.4	54	-13.6	-	-	336	245	V
2	2.379	41.84	Pk	31.8	-20.6	53.04	-	-	74	-20.96	336	245	V
1	2.39	39.06	Pk	31.9	-20.6	50.36	-	-	74	-23.64	336	245	V
3	2.39	28.91	VA1T	31.9	-20.6	40.21	54	-13.79	-	-	336	245	V

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

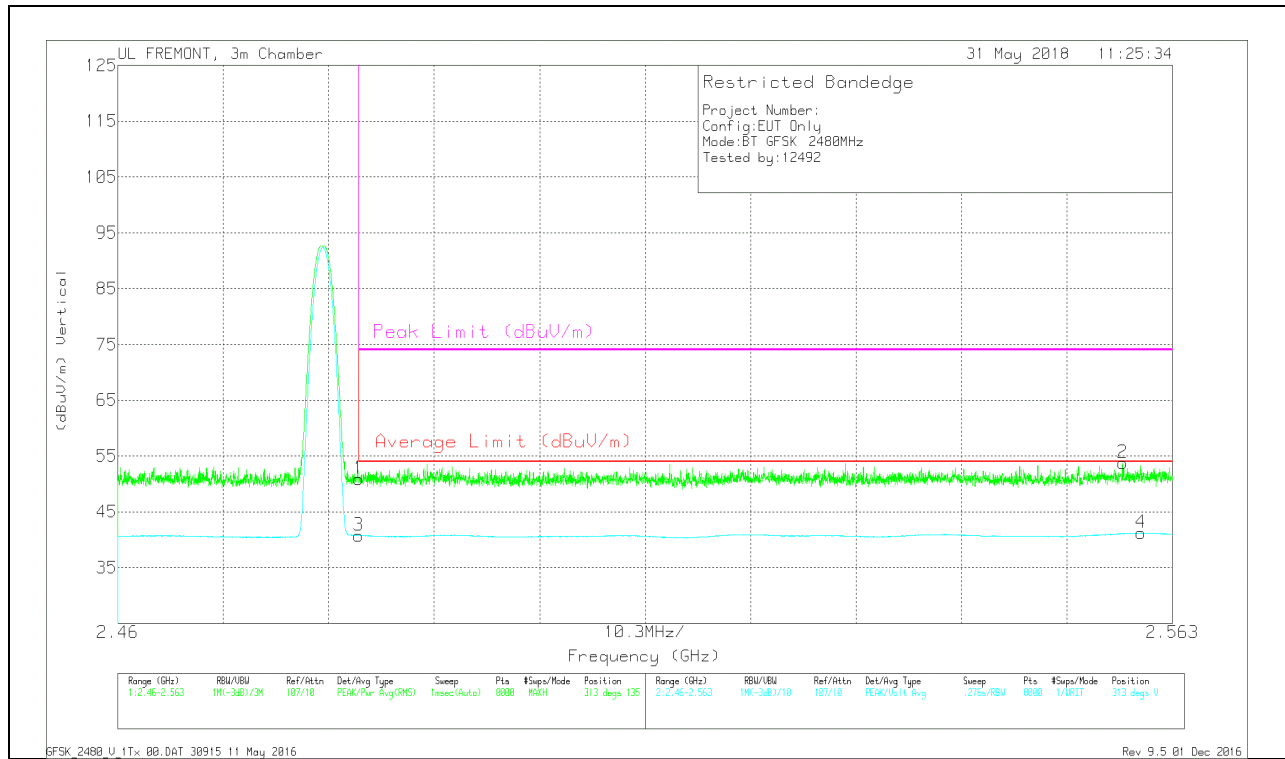


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	38.9	Pk	32.2	-20.7	50.4	-	-	74	-23.6	237	179	H
3	2.484	29.33	VA1T	32.2	-20.7	40.83	54	-13.17	-	-	237	179	H
2	2.492	41.97	Pk	32.2	-20.3	53.87	-	-	74	-20.13	237	179	H
4	2.56	29.27	VA1T	32.3	-20.4	41.17	54	-12.83	-	-	237	179	H

Pk - Peak detector

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

VERTICAL RESULT



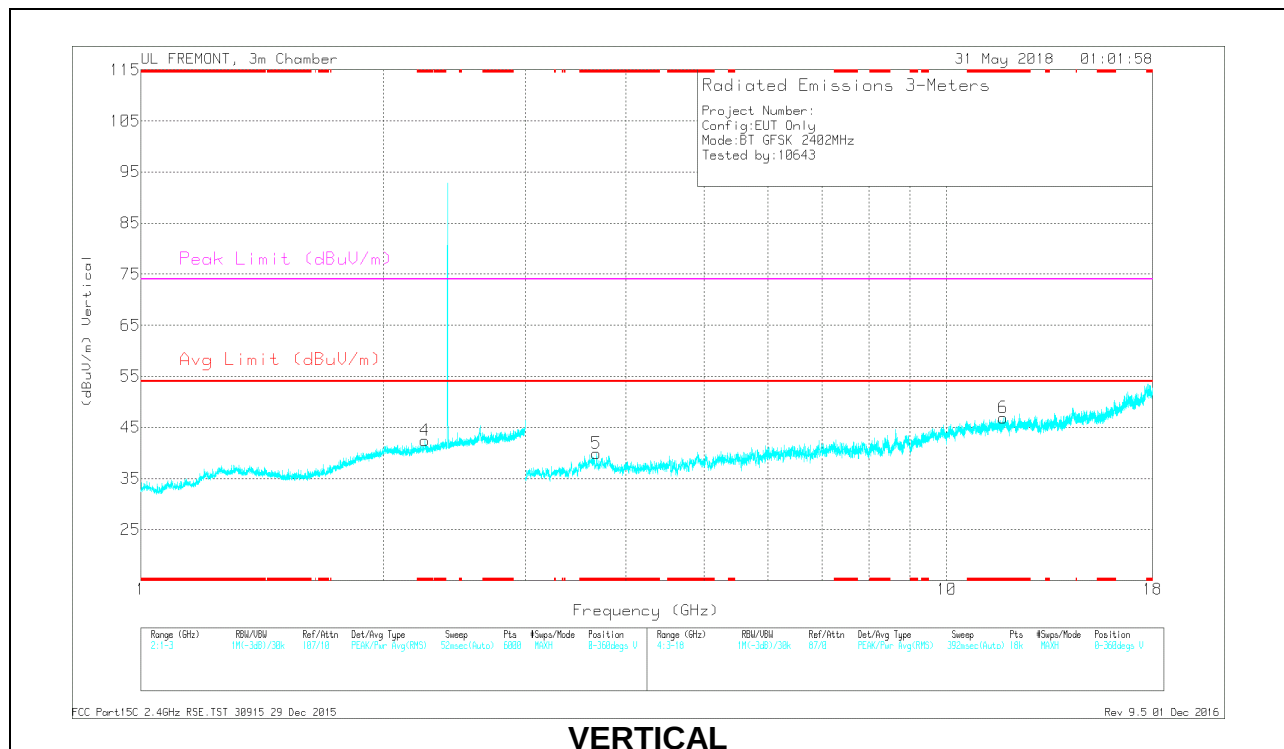
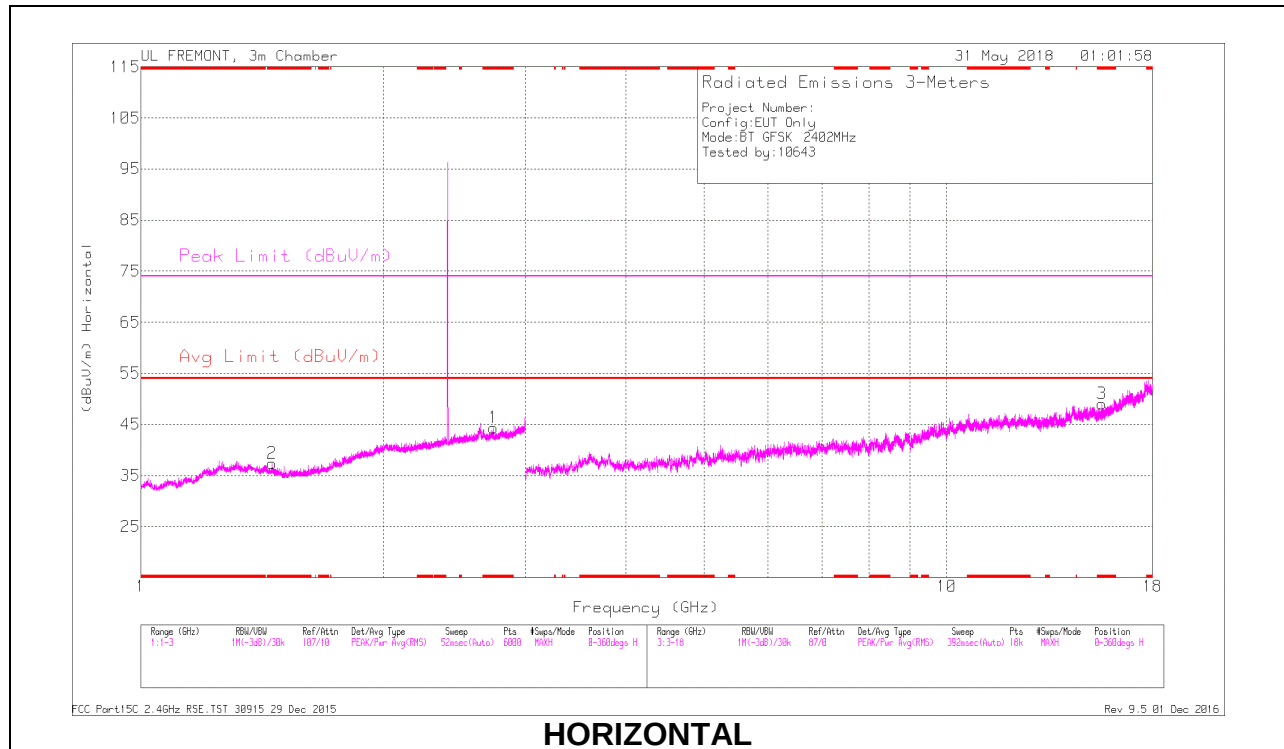
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/Filtr/Pat (dB)	Corrected Reading (dBuV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	39.38	Pk	32.2	-20.7	50.88	-	-	74	-23.12	313	135	V
3	2.484	29.25	VA1T	32.2	-20.7	40.75	54	-13.25	-	-	313	135	V
2	2.558	41.84	Pk	32.3	-20.4	53.74	-	-	74	-20.26	313	135	V
4	2.56	29.28	VA1T	32.3	-20.4	41.18	54	-12.82	-	-	313	135	V

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 T120 (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	* 2.74	37.57	PKFH	32.5	-21.4	48.67	-	-	74	-25.33	166	300	H
	* 2.74	25.46	VA1T	32.5	-21.4	36.56	54	-17.44	-	-	166	300	H
2	* 1.455	35.08	PKFH	28.8	-22	41.88	-	-	74	-32.12	231	107	H
	* 1.453	23.69	VA1T	28.8	-22.1	30.39	54	-23.61	-	-	231	107	H
4	* 2.252	36.5	PKFH	31.9	-21.4	47	-	-	74	-27	282	163	V
	* 2.252	24.79	VA1T	31.9	-21.4	35.29	54	-18.71	-	-	282	163	V
3	* 15.572	34.43	PKFH	40.3	-21	53.73	-	-	74	-20.27	256	157	H
	* 15.571	22.89	VA1T	40.3	-21	42.19	54	-11.81	-	-	256	157	H
5	* 3.678	40.06	PKFH	34.3	-28.6	45.76	-	-	74	-28.24	7	363	V
	* 3.675	27.16	VA1T	34.3	-28.4	33.06	54	-20.94	-	-	7	363	V
6	* 11.74	35.49	PKFH	38.9	-21.9	52.49	-	-	74	-21.51	164	100	V
	* 11.741	23.46	VA1T	38.9	-21.9	40.46	54	-13.54	-	-	164	100	V

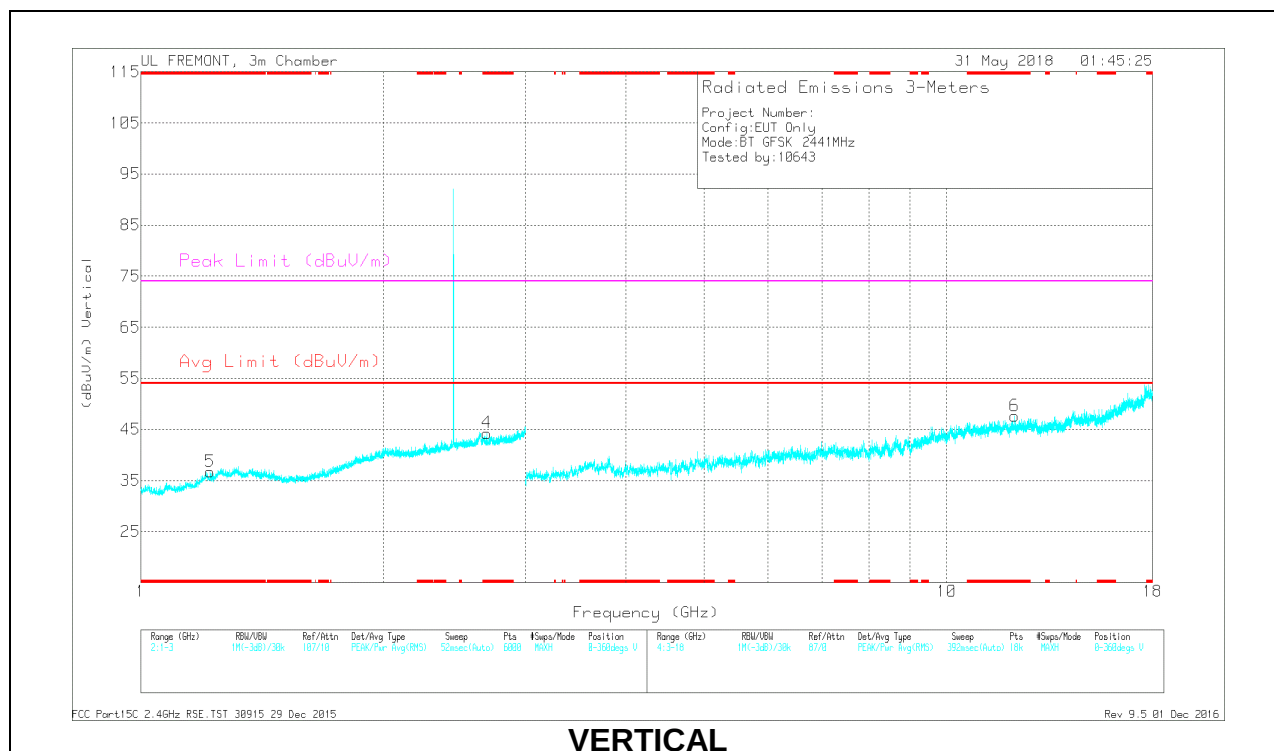
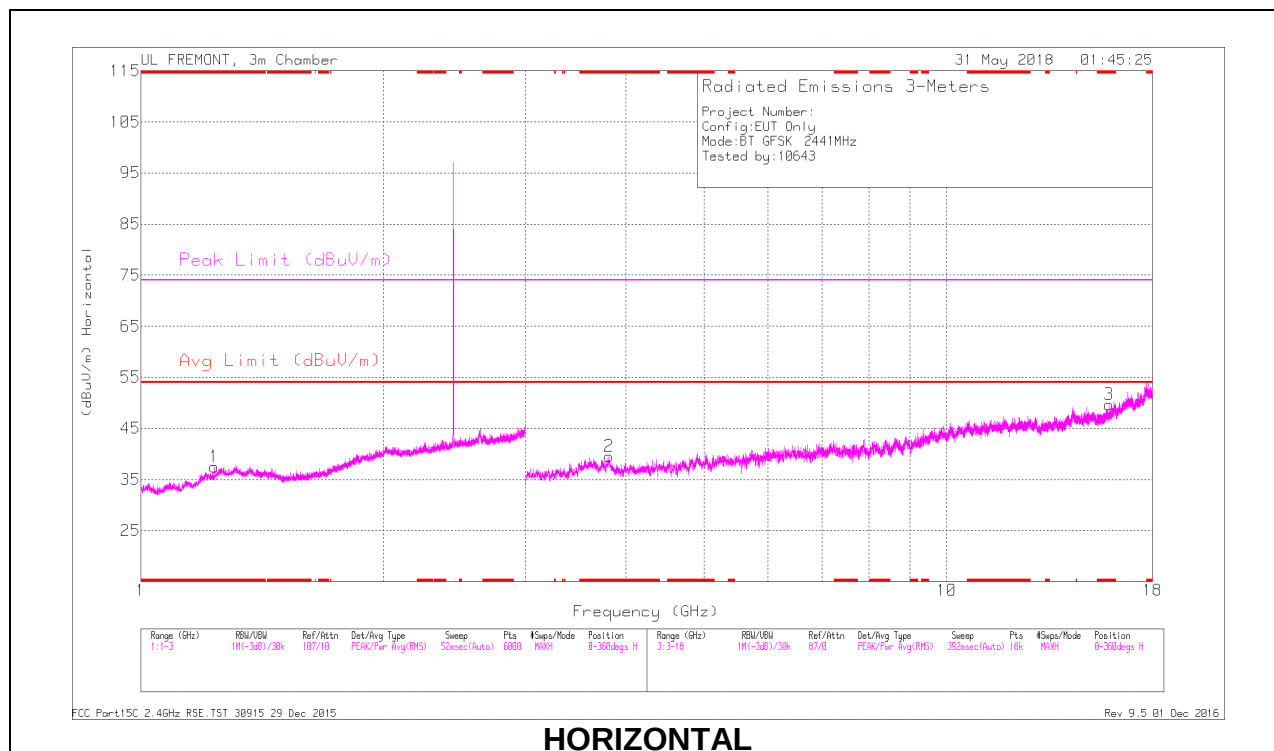
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

MID CHANNEL RESULTS



RADIATED EMISSIONS

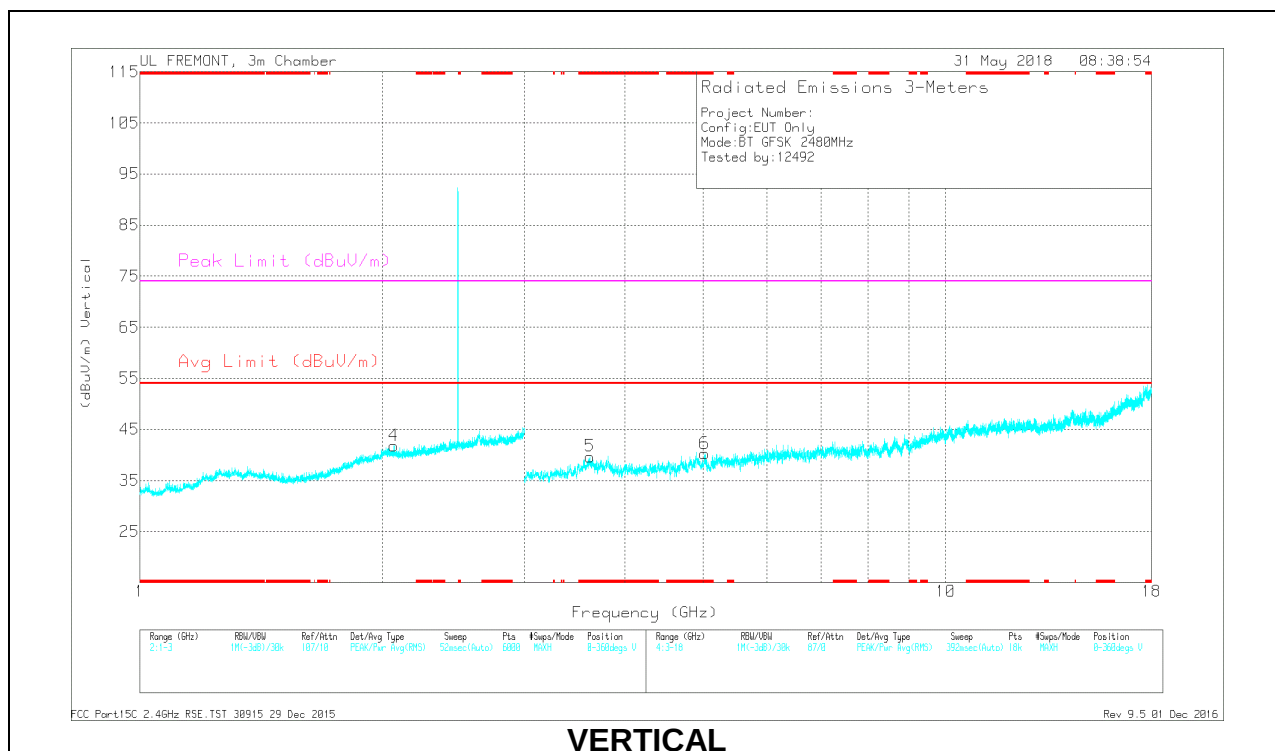
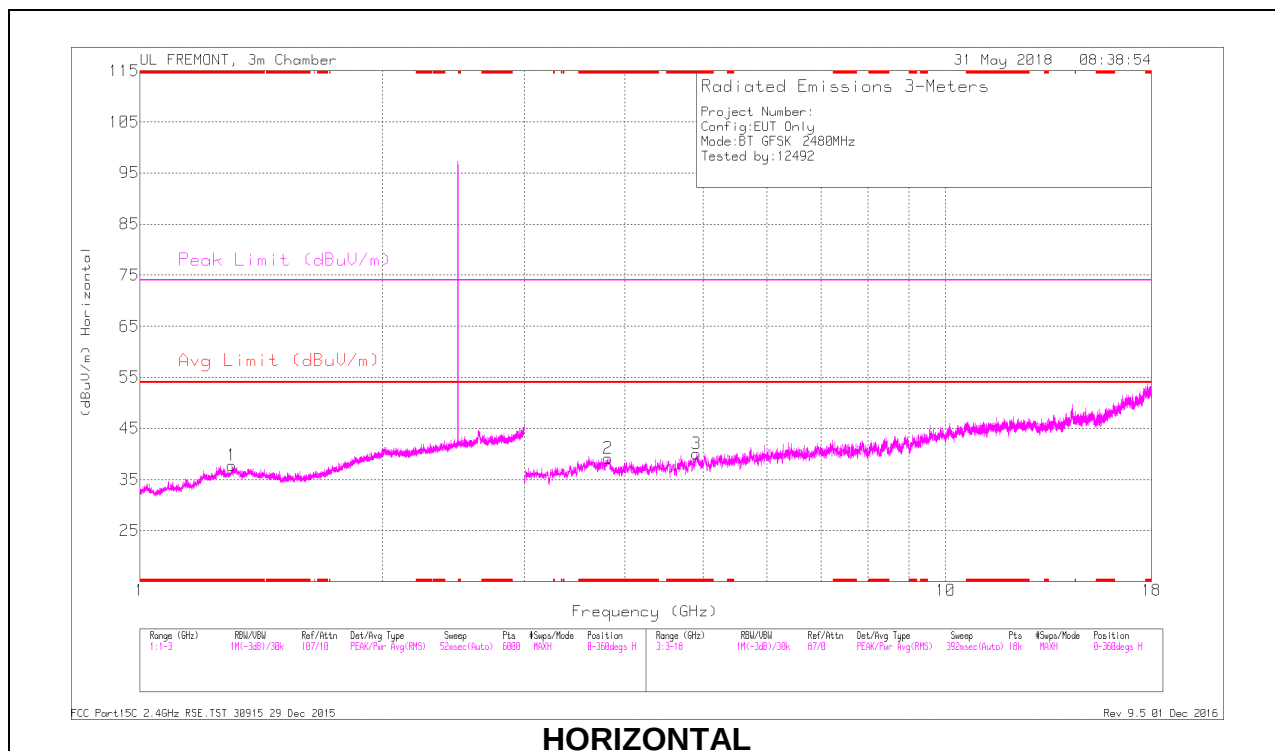
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.231	35.48	PKFH	29.5	-22.8	42.18	-	-	74	-31.82	261	121	H
	* 1.231	23.46	VA1T	29.5	-22.8	30.16	54	-23.84	-	-	261	121	H
4	* 2.685	36.99	PKFH	32.6	-21.4	48.19	-	-	74	-25.81	286	217	V
	* 2.687	25.45	VA1T	32.6	-21.6	36.45	54	-17.55	-	-	286	217	V
5	* 1.221	35.25	PKFH	29.3	-22.7	41.85	-	-	74	-32.15	259	132	V
	* 1.218	23.6	VA1T	29.3	-22.8	30.1	54	-23.9	-	-	259	132	V
2	* 3.812	39.62	PKFH	33.7	-27	46.32	-	-	74	-27.68	227	220	H
	* 3.813	27.44	VA1T	33.7	-27.3	33.84	54	-20.16	-	-	227	220	H
3	* 15.904	34.86	PKFH	40.4	-20.3	54.96	-	-	74	-19.04	48	285	H
	* 15.905	22.52	VA1T	40.4	-20.3	42.62	54	-11.38	-	-	48	285	H
6	* 12.14	34.97	PKFH	39.1	-21.1	52.97	-	-	74	-21.03	148	274	V
	* 12.14	23.2	VA1T	39.1	-21.1	41.2	54	-12.8	-	-	148	274	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

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (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
* 1.253	37.61	PKFH	29.9	-22.9	44.61	-	-	74	-29.39	62	172	H
* 1.373	24.35	VA1T	29.4	-22.4	31.35	54	-22.65	-	-	62	172	H
* 3.808	39.16	PKFH	33.7	-26.8	46.06	-	-	74	-27.94	4	324	H
* 3.809	27.19	VA1T	33.7	-26.8	34.09	54	-19.91	-	-	4	324	H
* 4.904	38.4	PKFH	34	-26.3	46.1	-	-	74	-27.9	315	350	H
* 4.906	27.15	VA1T	34	-26.6	34.55	54	-19.45	-	-	315	350	H
* 3.619	38.68	PKFH	34.6	-28.5	44.78	-	-	74	-29.22	336	362	V
* 3.62	27.34	VA1T	34.6	-28.5	33.44	54	-20.56	-	-	336	362	V
* 3.62	39.26	PKFH	34.6	-28.5	45.36	-	-	74	-28.64	85	315	V
* 3.62	27.32	VA1T	34.6	-28.5	33.42	54	-20.58	-	-	85	315	V
2.068	36.32	PKFH	31.8	-21.7	46.42	-	-	-	-	317	274	V

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

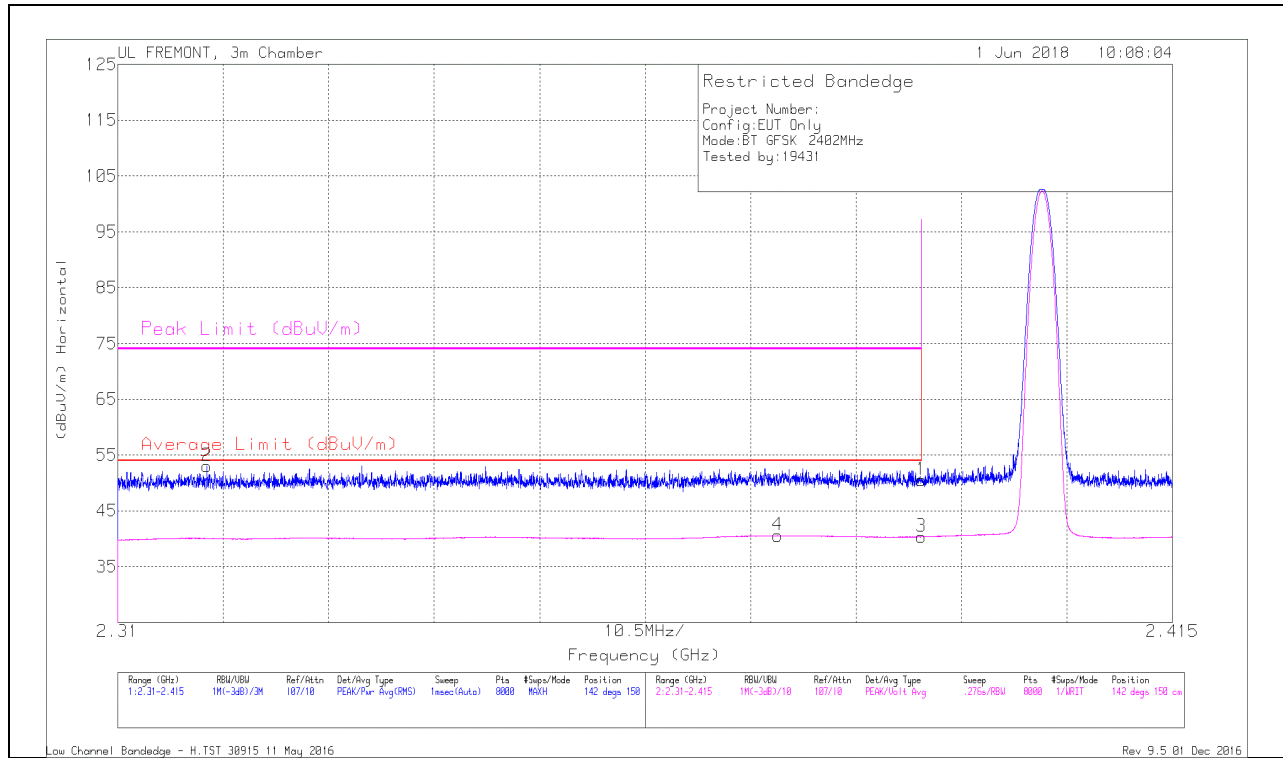
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

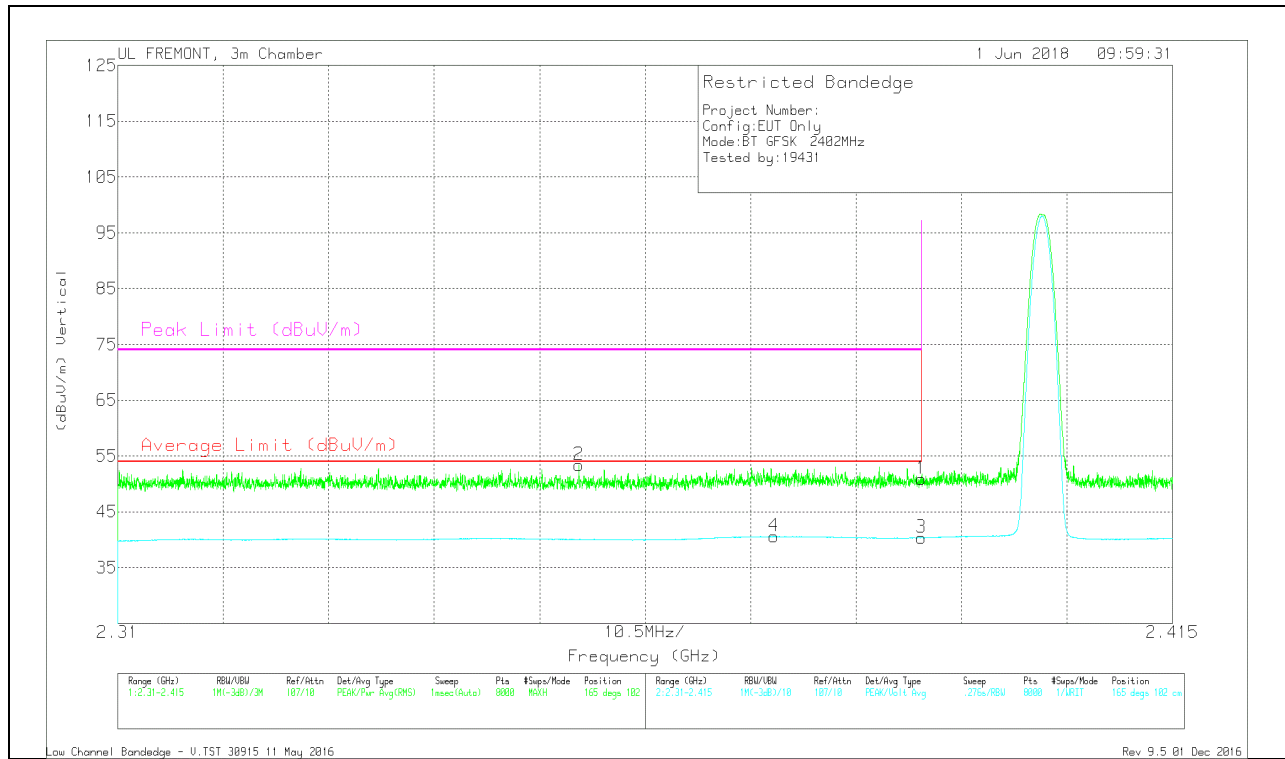


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.319	41.81	Pk	31.7	-20.5	53.01	-	-	74	-20.99	142	150	H
4	2.376	29.25	VA1T	31.8	-20.5	40.55	54	-13.45	-	-	142	150	H
1	2.39	39.2	Pk	31.9	-20.6	50.5	-	-	74	-23.5	142	150	H
3	2.39	29.01	VA1T	31.9	-20.6	40.31	54	-13.69	-	-	142	150	H

Pk - Peak detector

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

VERTICAL RESULT



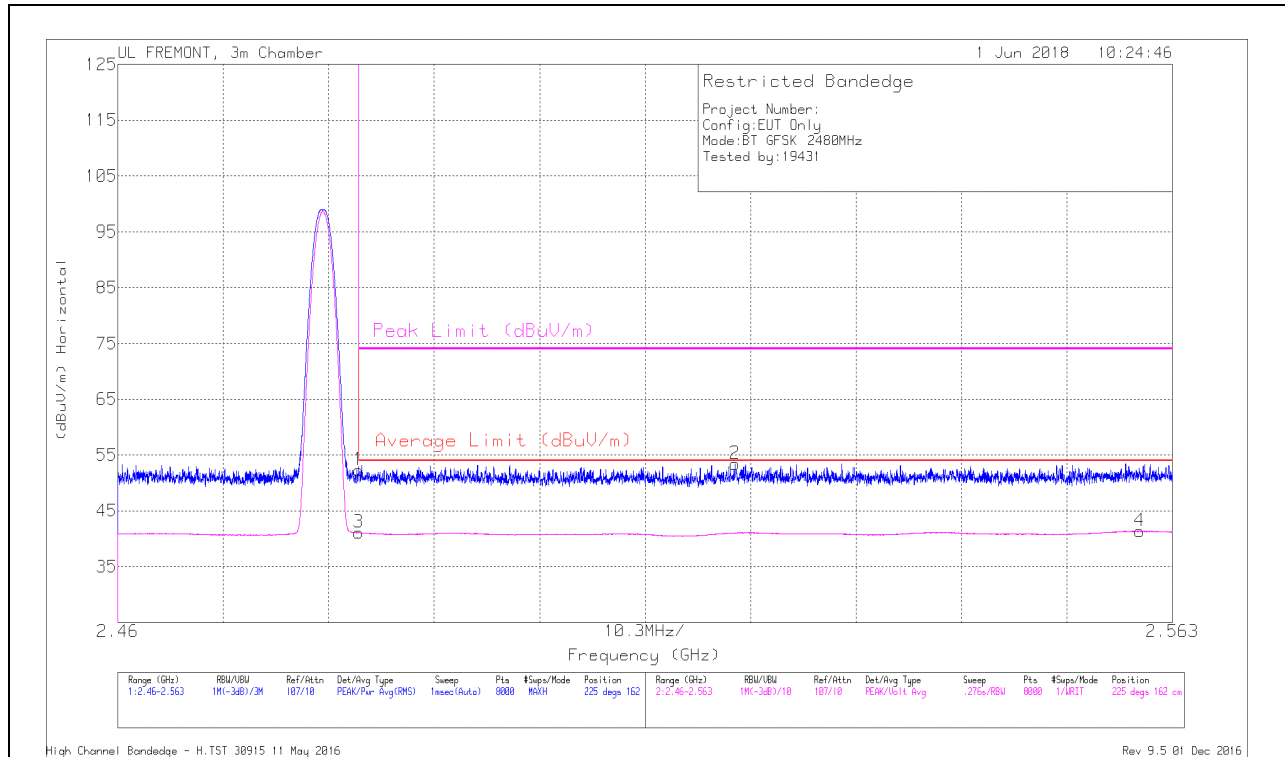
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.356	42	Pk	31.7	-20.3	53.4	-	-	74	-20.6	165	102	V
4	2.375	29.28	VA1T	31.8	-20.5	40.58	54	-13.42	-	-	165	102	V
1	2.39	39.58	Pk	31.9	-20.6	50.88	-	-	74	-23.12	165	102	V
3	2.39	29.02	VA1T	31.9	-20.6	40.32	54	-13.68	-	-	165	102	V

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

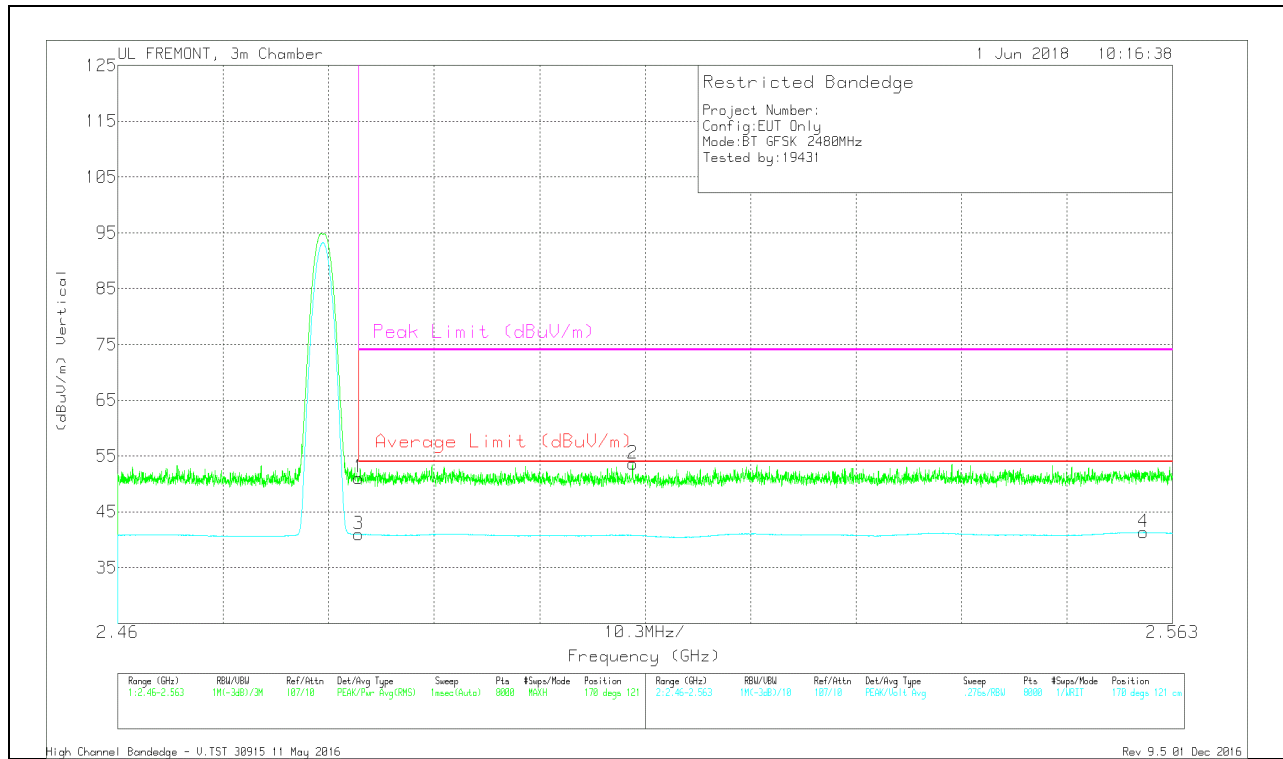


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	40.76	Pk	32.2	-20.7	52.26	-	-	74	-21.74	225	162	H
3	2.484	29.56	VA1T	32.2	-20.7	41.06	54	-12.94	-	-	225	162	H
2	2.52	41.44	Pk	32.3	-20.3	53.44	-	-	74	-20.56	225	162	H
4	2.56	29.46	VA1T	32.3	-20.4	41.36	54	-12.64	-	-	225	162	H

Pk - Peak detector

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

VERTICAL RESULT



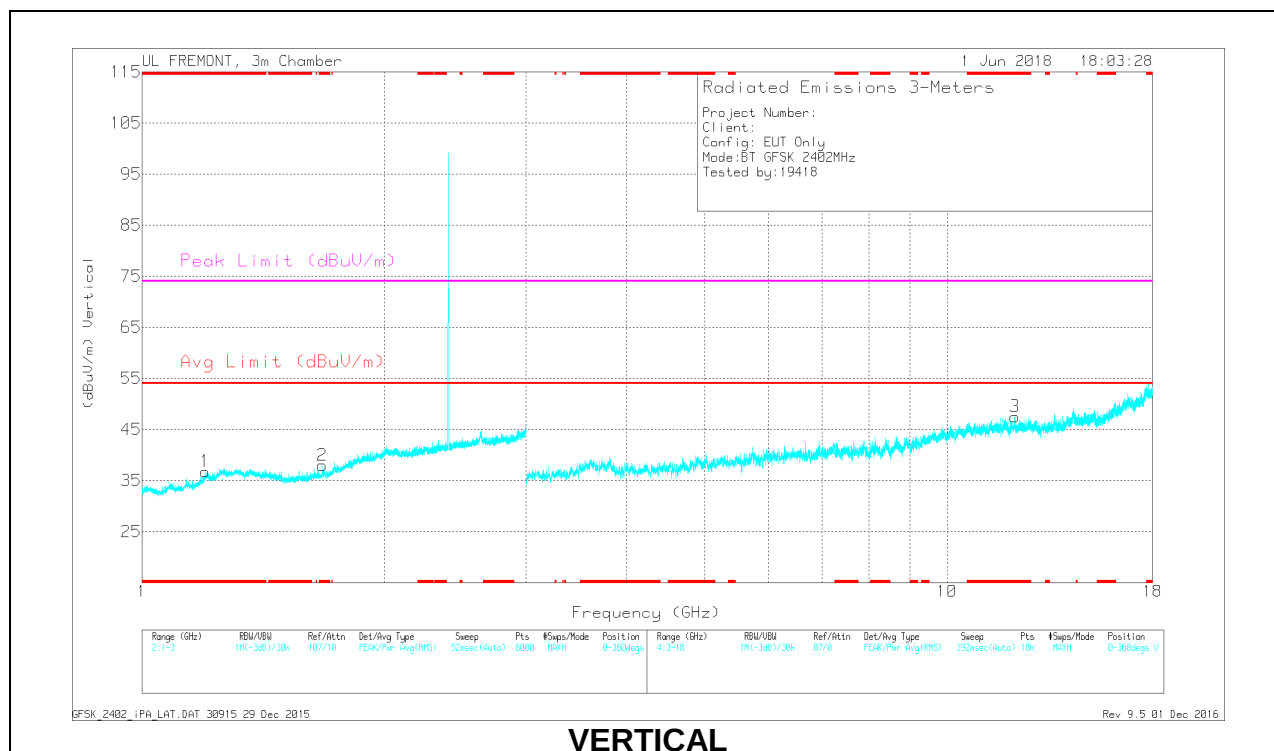
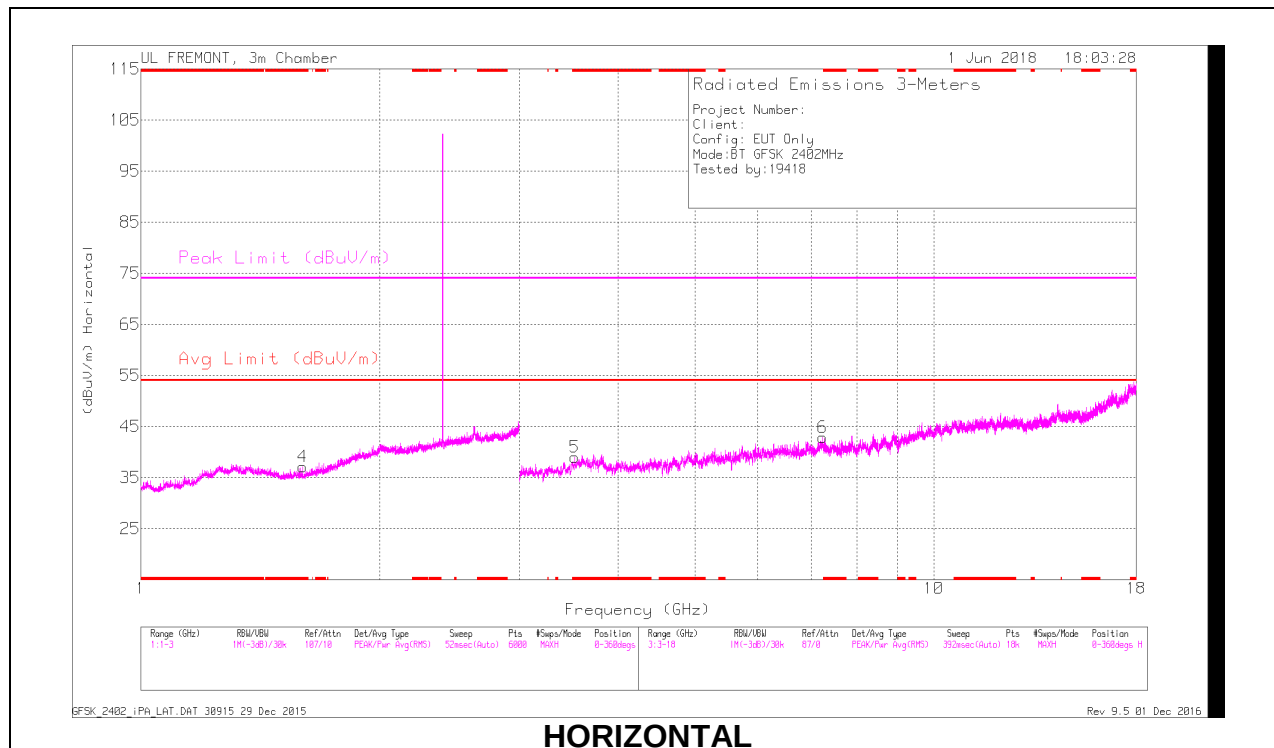
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/Filtr/Pat (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	39.6	Pk	32.2	-20.7	51.1	-	-	74	-22.9	170	121	V
3	2.484	29.52	VA1T	32.2	-20.7	41.02	54	-12.98	-	-	170	121	V
2	2.51	42	Pk	32.3	-20.6	53.7	-	-	74	-20.3	170	121	V
4	2.56	29.42	VA1T	32.3	-20.4	41.32	54	-12.68	-	-	170	121	V

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

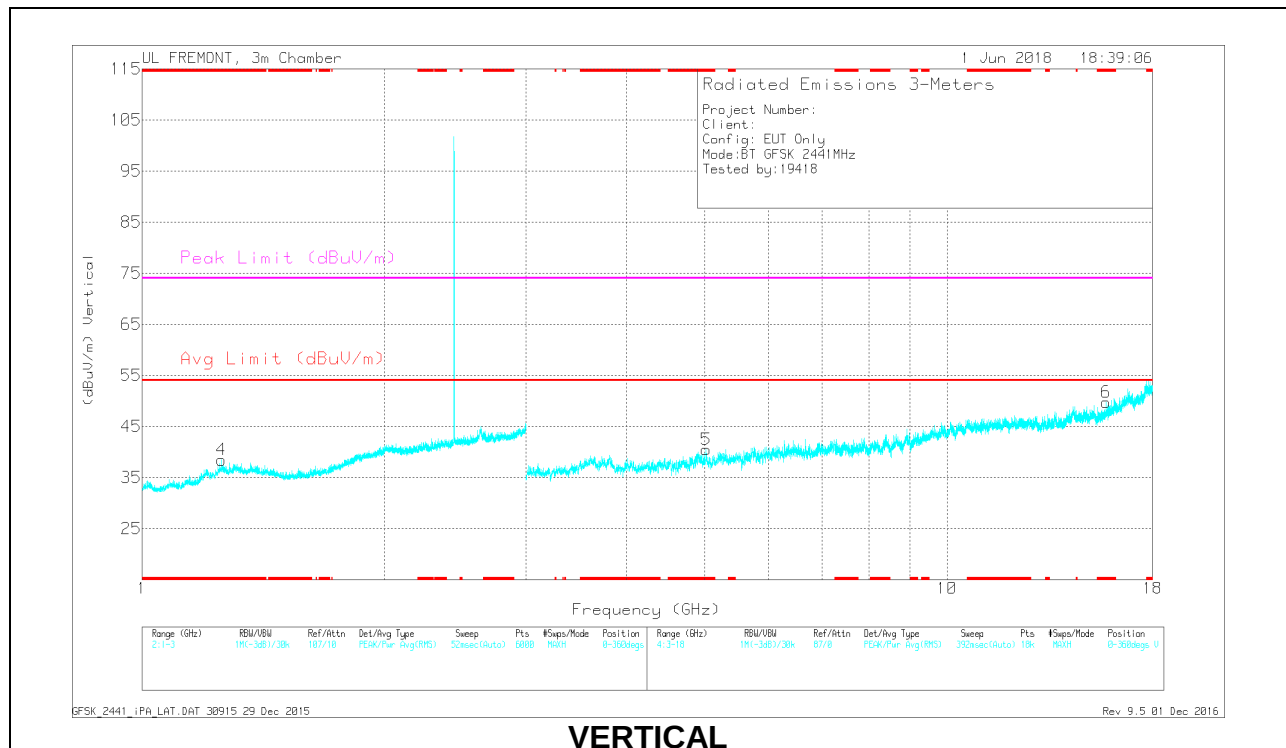
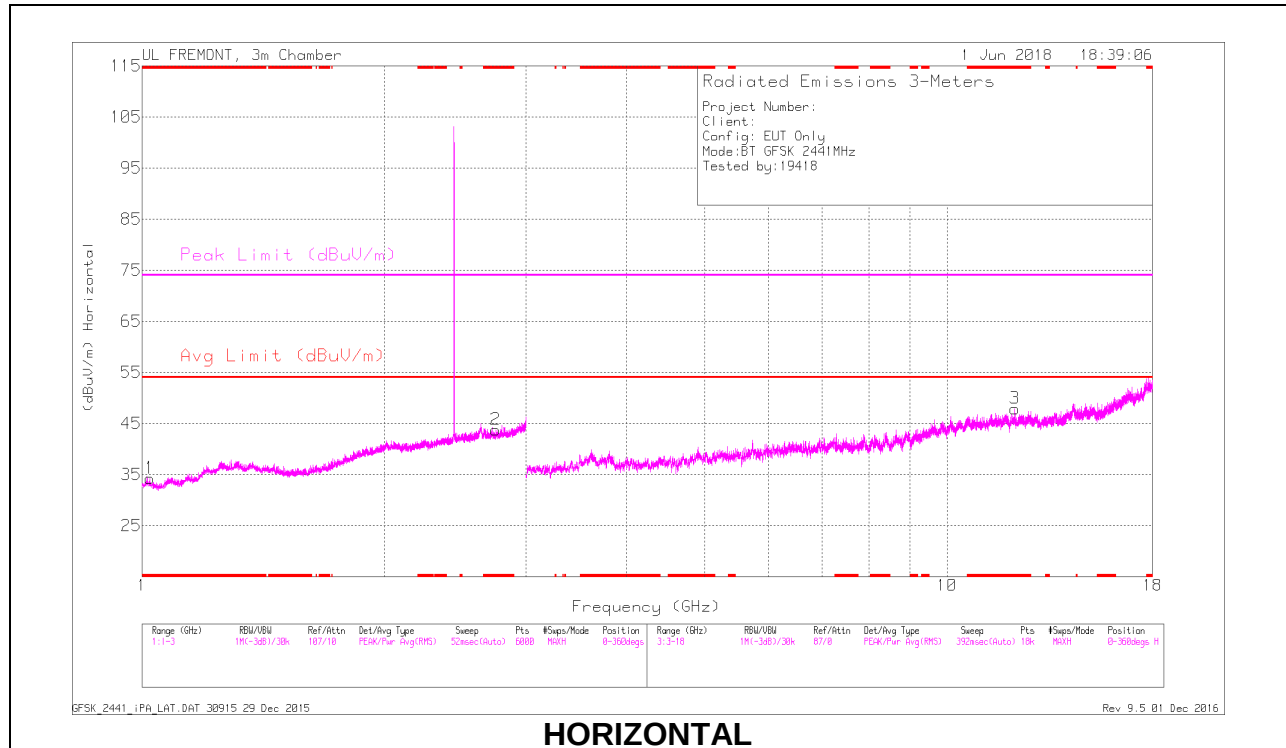
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.599	35.67	PKFH	28.1	-22.2	41.57	-	-	74	-32.43	155	178	H
	* 1.601	24.09	VA1T	28.1	-22.3	29.89	54	-24.11	-	-	155	178	H
1	* 1.196	35.96	PKFH	28.9	-22.9	41.96	-	-	74	-32.04	91	166	V
	* 1.198	24.19	VA1T	28.9	-22.8	30.29	54	-23.71	-	-	91	166	V
2	* 1.674	35.85	PKFH	28.7	-22.2	42.35	-	-	74	-31.65	5	103	V
	* 1.676	24.15	VA1T	28.7	-22.2	30.65	54	-23.35	-	-	5	103	V
5	* 3.523	38.86	PKFH	34.5	-28.7	44.66	-	-	74	-29.34	137	178	H
	* 3.523	26.28	VA1T	34.5	-28.7	32.08	54	-21.92	-	-	137	178	H
3	* 12.147	36.5	PKFH	39.1	-21.1	54.5	-	-	74	-19.5	237	179	V
	* 12.146	23.17	VA1T	39.1	-21	41.27	54	-12.73	-	-	237	179	V
6	7.244	37.87	PKFH	35.7	-24	49.57	-	-	-	-	333	399	H
	7.244	24.9	VA1T	35.7	-23.9	36.7	-	-	-	-	333	399	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

MID CHANNEL RESULTS



RADIATED EMISSIONS

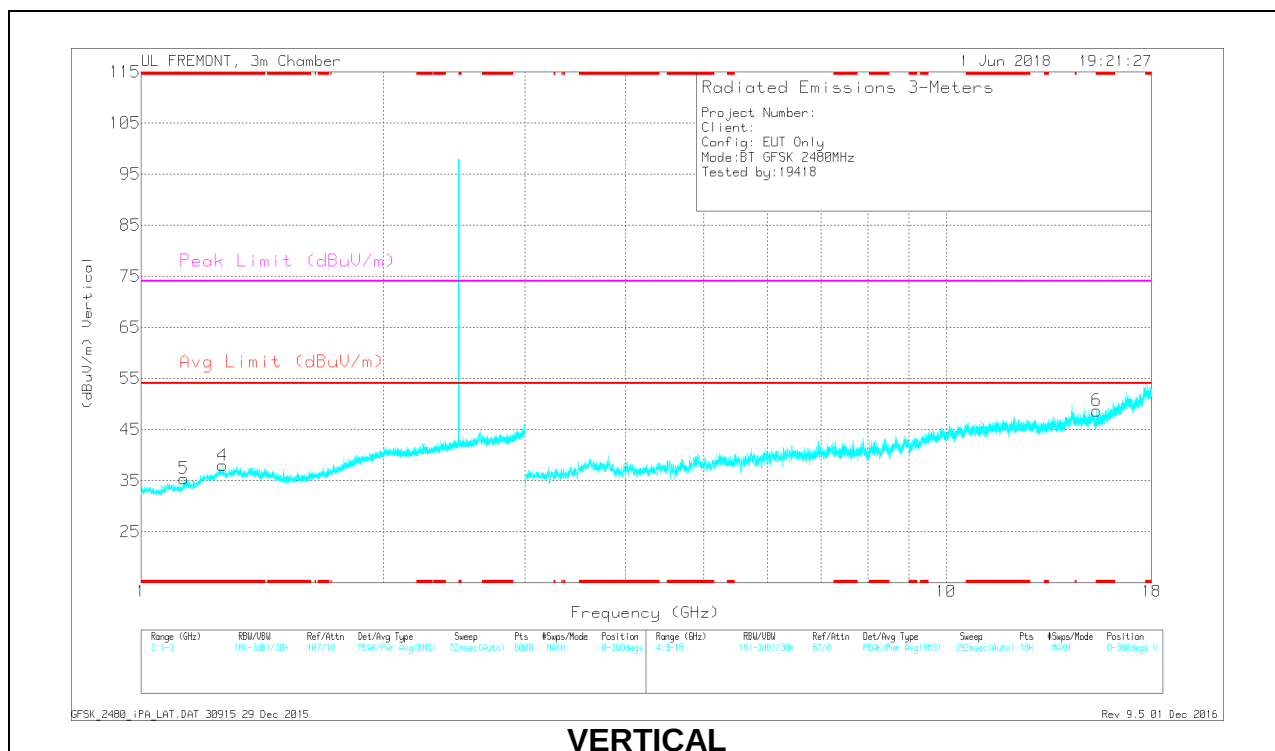
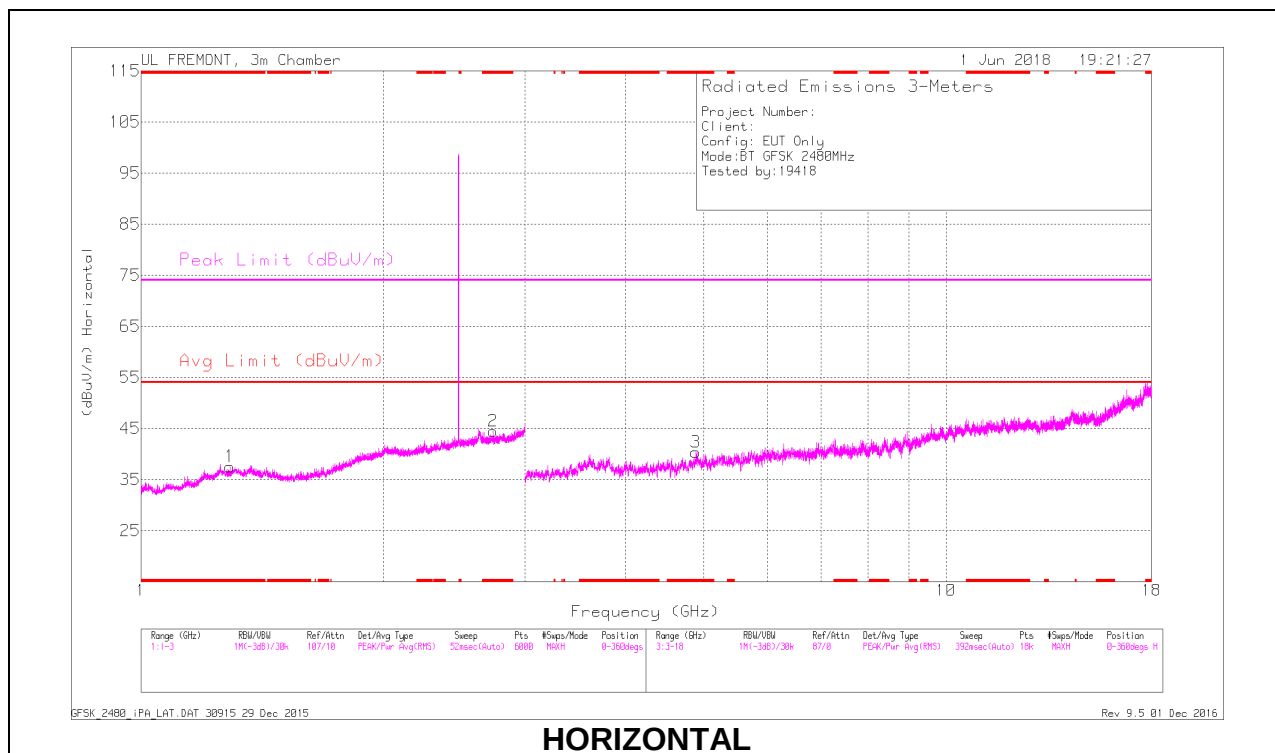
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.022	35.94	PKFH	27.5	-23.7	39.74	-	-	74	-34.26	136	391	H
	* 1.022	24.36	VA1T	27.5	-23.7	28.16	54	-25.84	-	-	136	391	H
2	* 2.75	37.78	PKFH	32.5	-21.3	48.98	-	-	74	-25.02	185	113	H
	* 2.75	25.44	VA1T	32.5	-21.3	36.64	54	-17.36	-	-	185	113	H
4	* 1.254	35.89	PKFH	29.9	-22.9	42.89	-	-	74	-31.11	330	272	V
	* 1.258	24.26	VA1T	29.9	-22.9	31.26	54	-22.74	-	-	330	272	V
3	* 12.142	34.81	PKFH	39.1	-21	52.91	-	-	74	-21.09	5	399	H
	* 12.142	23.28	VA1T	39.1	-21	41.38	54	-12.62	-	-	5	399	H
5	* 5.023	36.18	PKFH	34.2	-24.5	45.88	-	-	74	-28.12	64	392	V
	* 5.023	24.61	VA1T	34.2	-24.5	34.31	54	-19.69	-	-	64	392	V
6	* 15.767	34.16	PKFH	40.5	-20	54.66	-	-	74	-19.34	249	301	V
	* 15.77	22.39	VA1T	40.5	-20	42.89	54	-11.11	-	-	249	301	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	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	* 1.288	35.21	PKFH	29.9	-22.5	42.61	-	-	74	-31.39	253	354	H
	* 1.29	23.61	VA1T	29.9	-22.6	30.91	54	-23.09	-	-	253	354	H
2	* 2.738	37.76	PKFH	32.5	-21.4	48.86	-	-	74	-25.14	99	239	H
	* 2.737	25.5	VA1T	32.5	-21.4	36.6	54	-17.4	-	-	99	239	H
4	* 1.264	35.95	PKFH	29.9	-22.8	43.05	-	-	74	-30.95	92	370	V
	* 1.261	24.17	VA1T	29.9	-22.8	31.27	54	-22.73	-	-	92	370	V
5	* 1.129	35.79	PKFH	27.9	-23.2	40.49	-	-	74	-33.51	330	330	V
	* 1.133	24.07	VA1T	27.9	-23.1	28.87	54	-25.13	-	-	330	330	V
3	* 4.888	39.19	PKFH	34	-26.9	46.29	-	-	74	-27.71	271	106	H
	* 4.887	26.43	VA1T	34	-26.7	33.73	54	-20.27	-	-	271	106	H
6	* 15.376	34.38	PKFH	40.3	-20.5	54.18	-	-	74	-19.82	353	278	V
	* 15.379	22.22	VA1T	40.3	-20.5	42.02	54	-11.98	-	-	353	278	V

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

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

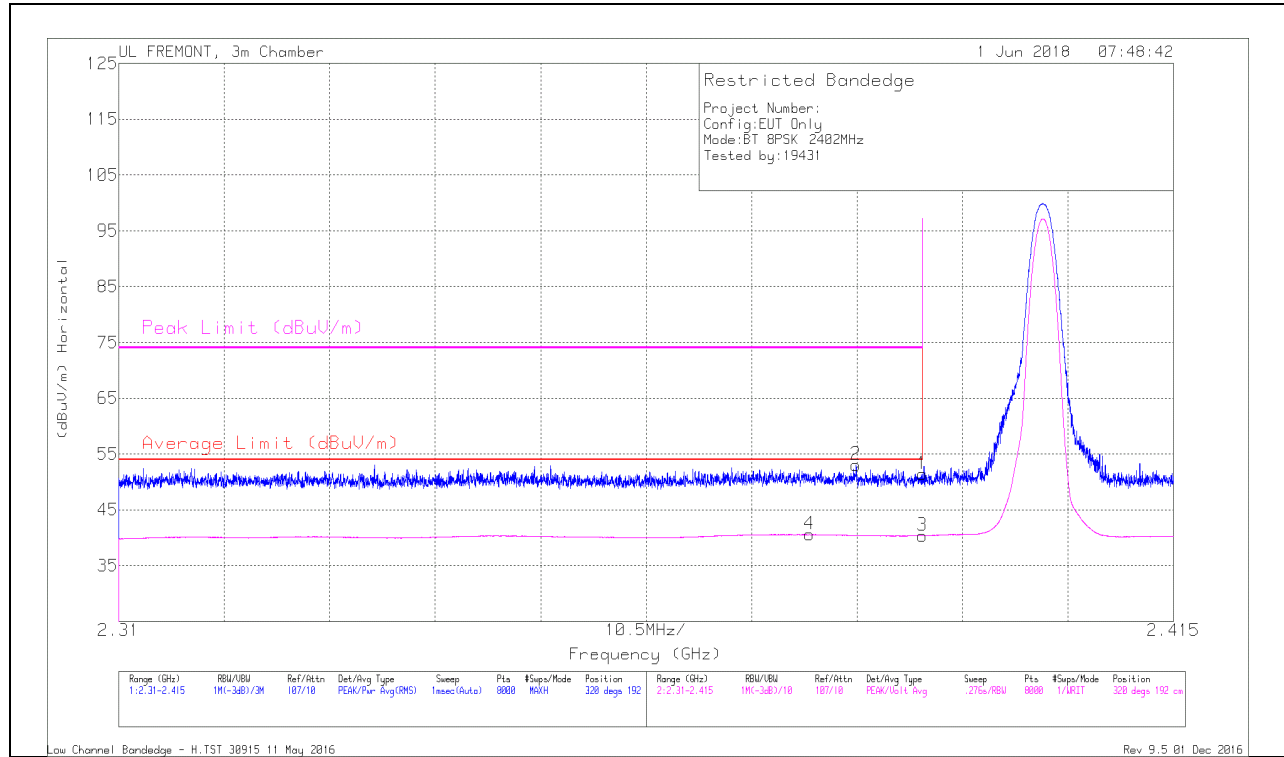
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.4. LOW POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

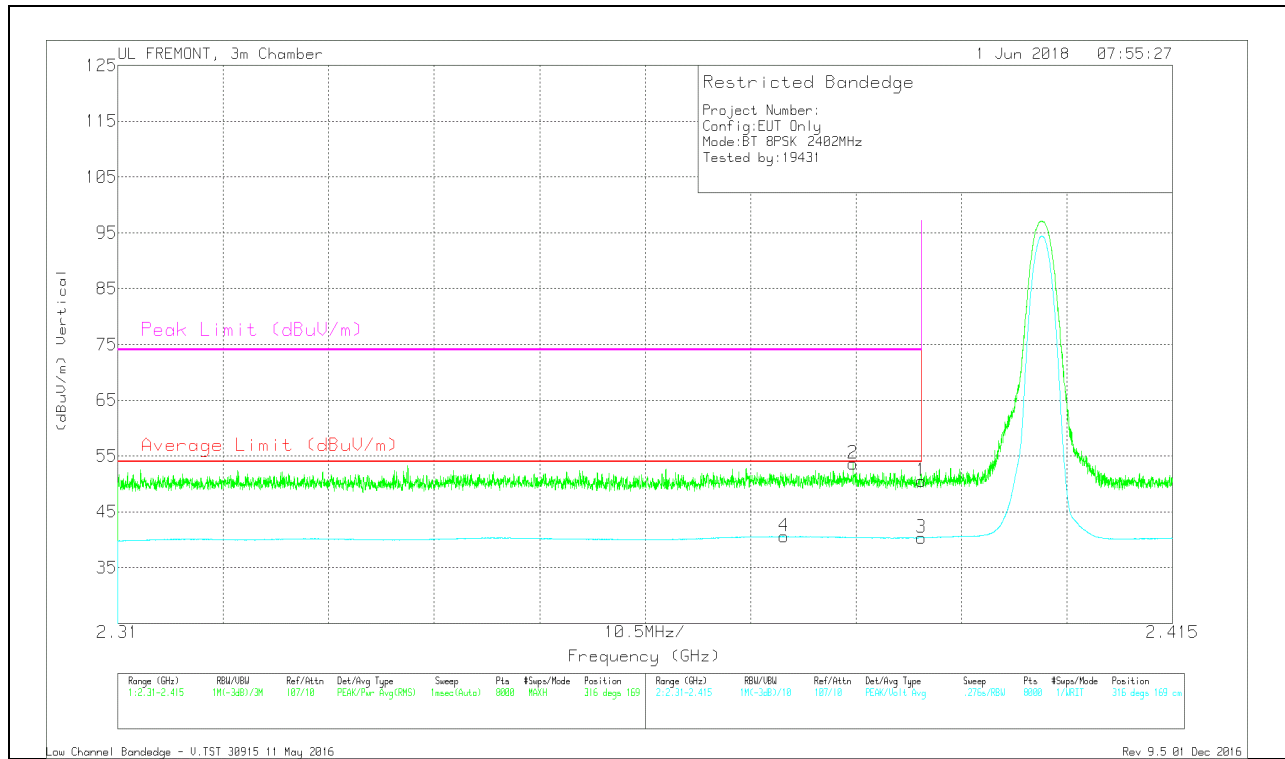


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.379	29.38	VA1T	31.8	-20.6	40.58	54	-13.42	-	-	320	192	H
2	2.383	41.78	Pk	31.9	-20.6	53.08	-	-	74	-20.92	320	192	H
1	2.39	40.12	Pk	31.9	-20.6	51.42	-	-	74	-22.58	320	192	H
3	2.39	29.08	VA1T	31.9	-20.6	40.38	54	-13.62	-	-	320	192	H

Pk - Peak detector

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

VERTICAL RESULT



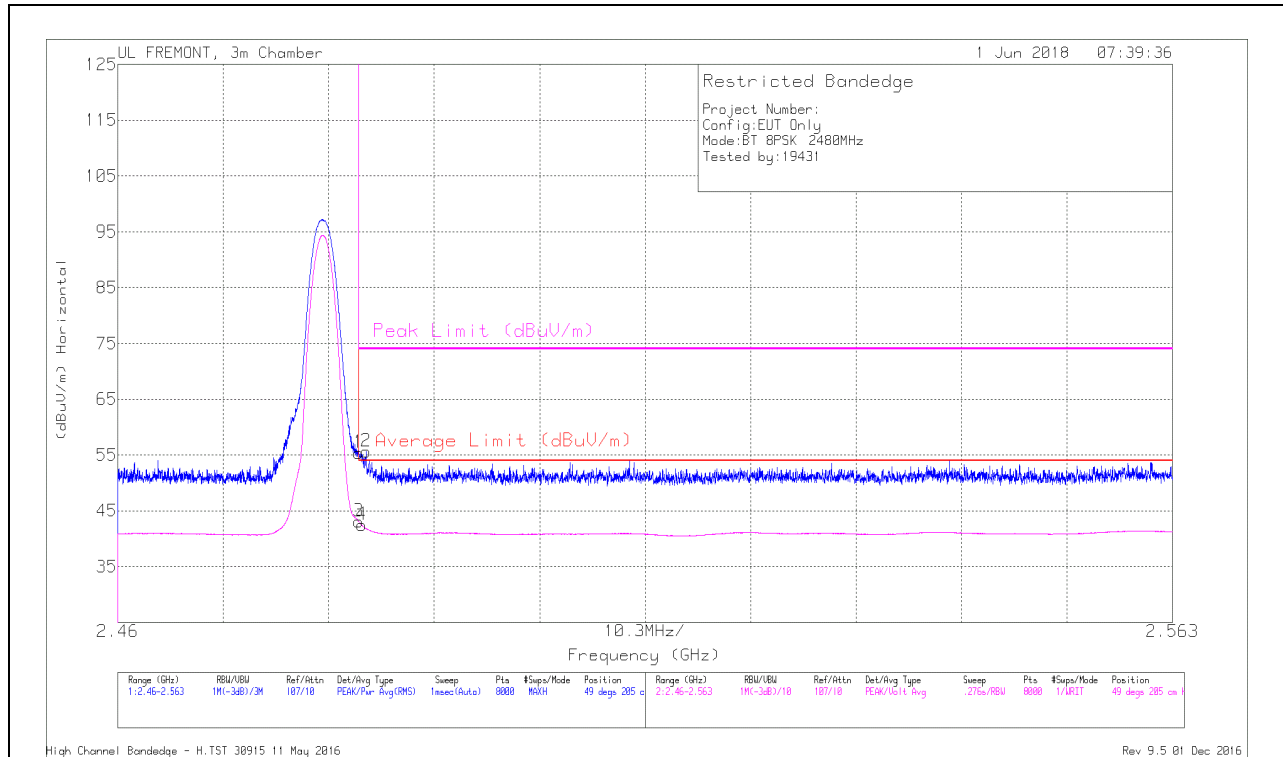
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Ampl/Cbl/Filtr/Pat (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.376	29.37	VA1T	31.8	-20.6	40.57	54	-13.43	-	-	316	169	V
2	2.383	42.33	Pk	31.9	-20.6	53.63	-	-	74	-20.37	316	169	V
1	2.39	39.28	Pk	31.9	-20.6	50.58	-	-	74	-23.42	316	169	V
3	2.39	29.03	VA1T	31.9	-20.6	40.33	54	-13.67	-	-	316	169	V

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

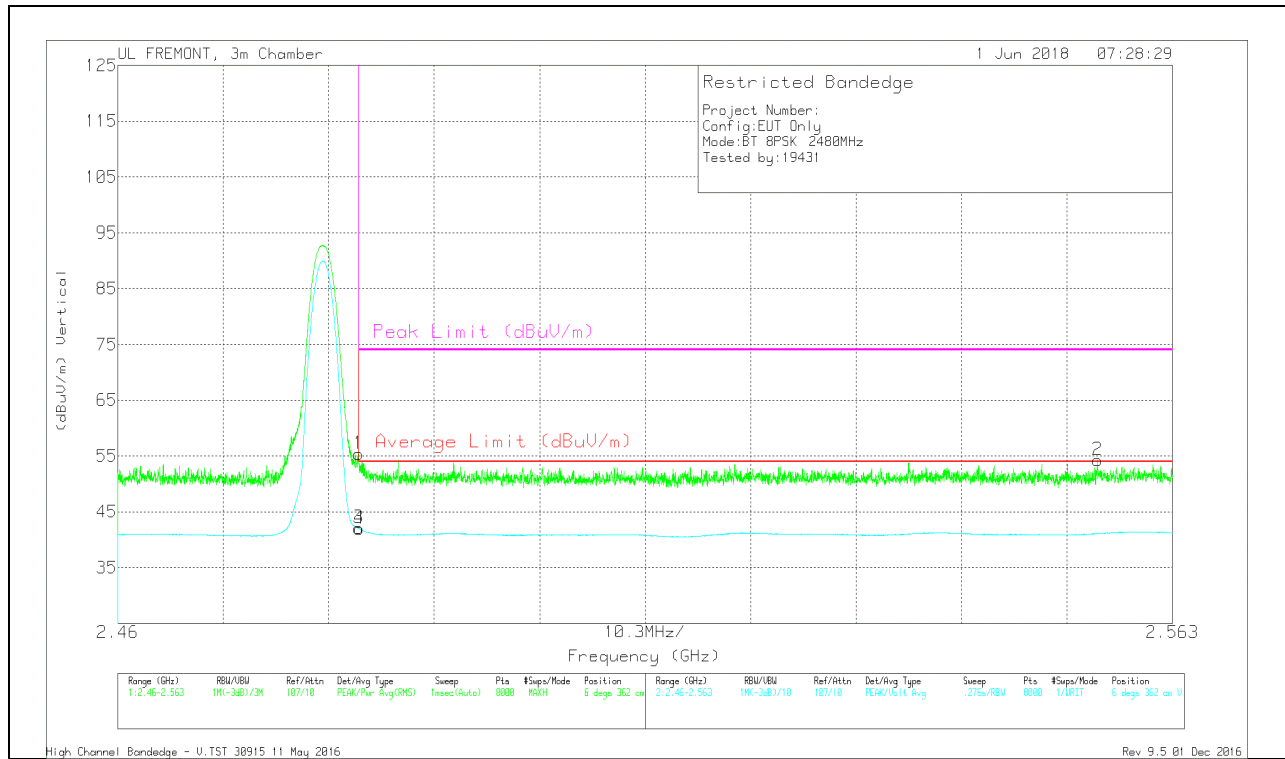


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	43.88	Pk	32.2	-20.7	55.38	-	-	74	-18.62	49	205	H
2	2.484	44.17	Pk	32.2	-20.7	55.67	-	-	74	-18.33	49	205	H
3	2.484	31.63	VA1T	32.2	-20.7	43.13	54	-10.87	-	-	49	205	H
4	2.484	30.95	VA1T	32.2	-20.7	42.45	54	-11.55	-	-	49	205	H

Pk - Peak detector

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

VERTICAL RESULT



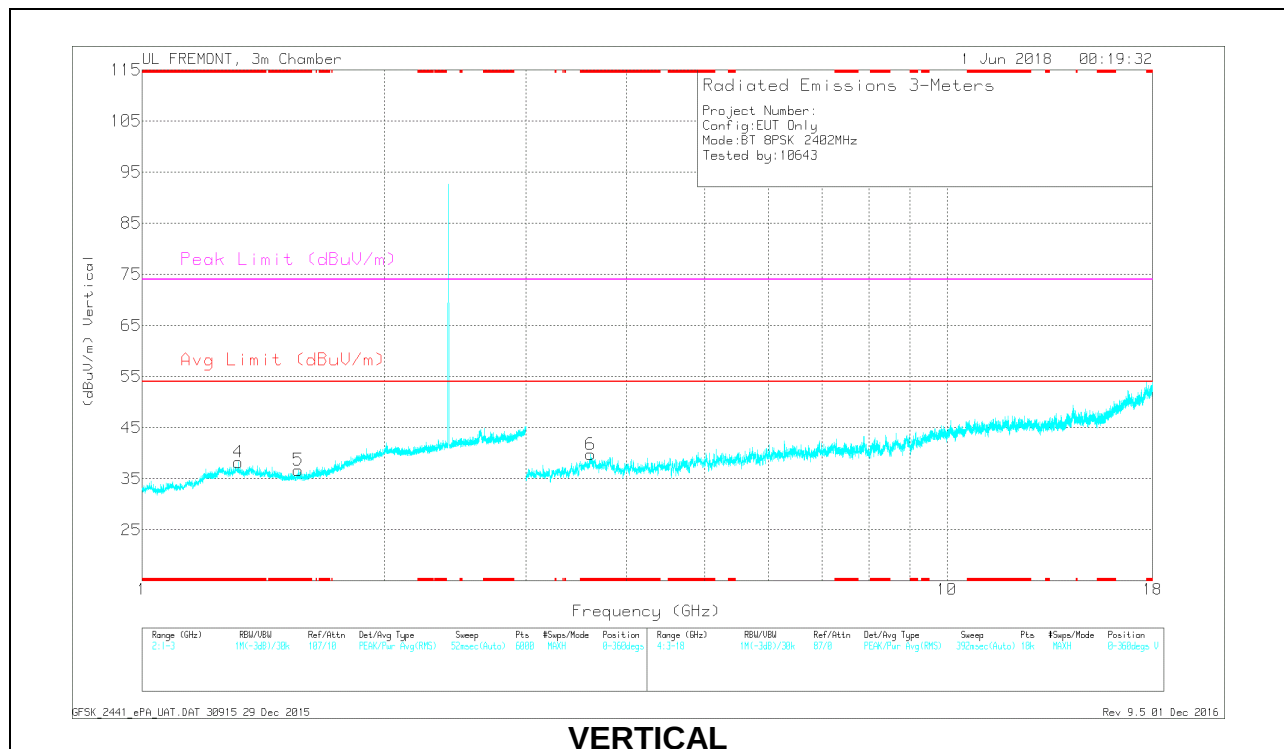
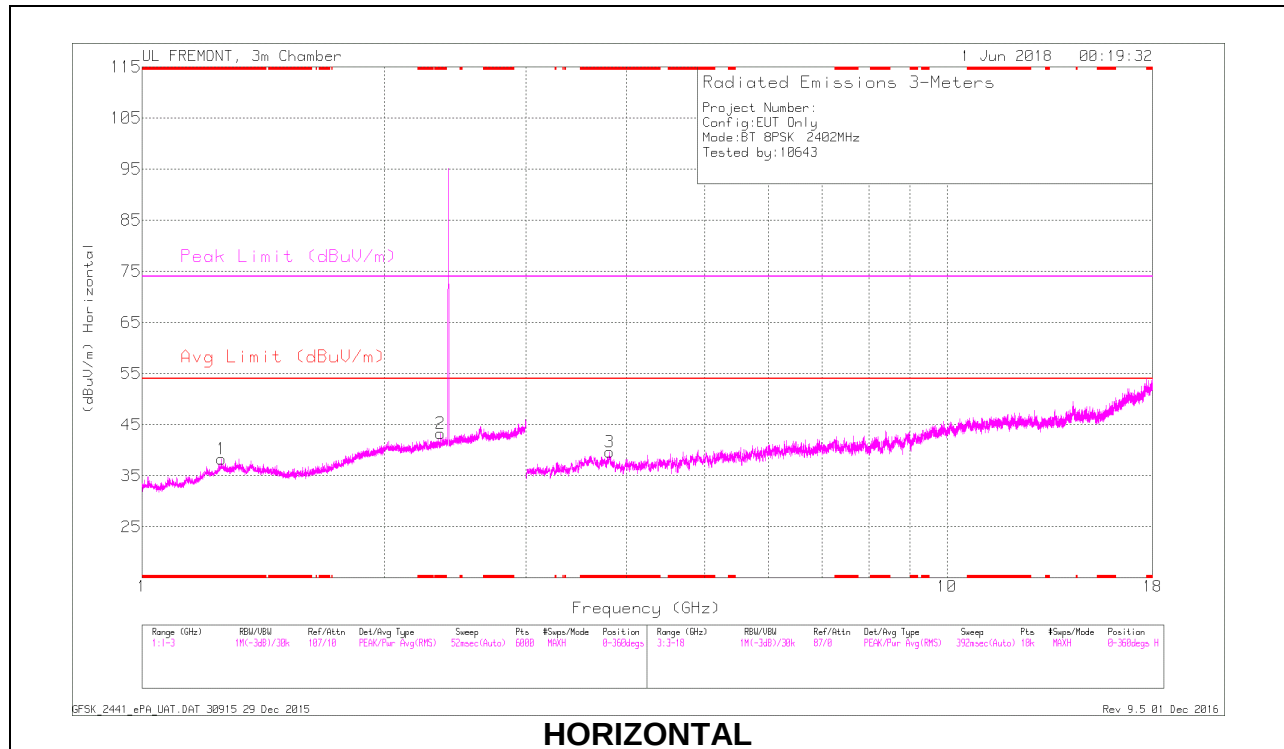
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/Filtr/Pat (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	43.9	Pk	32.2	-20.7	55.4	-	-	74	-18.6	6	362	V
3	2.484	30.58	VA1T	32.2	-20.7	42.08	54	-11.92	-	-	6	362	V
4	2.484	30.47	VA1T	32.2	-20.7	41.97	54	-12.03	-	-	6	362	V
2	2.556	42.59	Pk	32.3	-20.6	54.29	-	-	74	-19.71	6	362	V

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

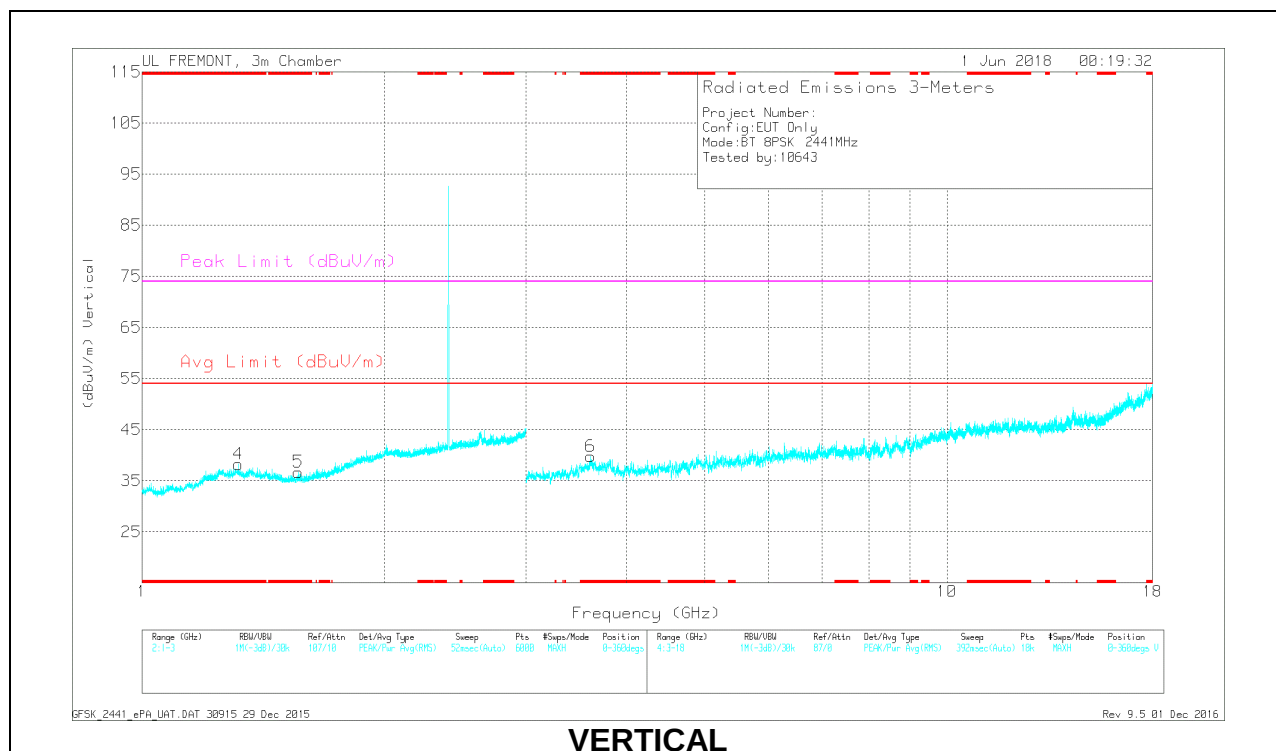
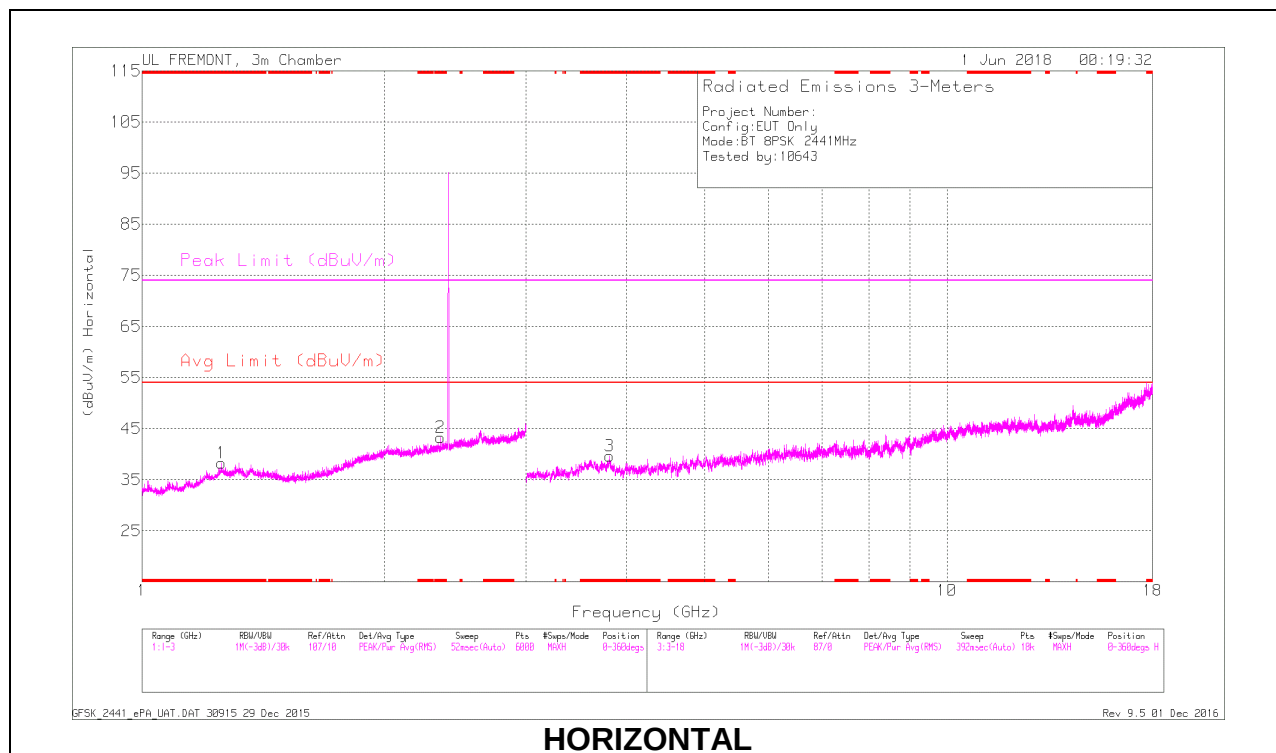
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 1.256	36.32	PKFH	29.9	-22.9	43.32	-	-	74	-30.68	334	195	H
	* 1.256	24.28	VA1T	29.9	-22.8	31.38	54	-22.62	-	-	334	195	H
2	* 2.351	36.74	PKFH	31.7	-21.5	46.94	-	-	74	-27.06	58	161	H
	* 2.352	25.06	VA1T	31.7	-21.5	35.26	54	-18.74	-	-	58	161	H
4	* 1.316	36.52	PKFH	29.8	-22.7	43.62	-	-	74	-30.38	253	314	V
	* 1.317	24.32	VA1T	29.7	-22.7	31.32	54	-22.68	-	-	253	314	V
5	* 1.562	36.43	PKFH	28	-21.8	42.63	-	-	74	-31.37	131	279	V
	* 1.564	24	VA1T	28	-21.8	30.2	54	-23.8	-	-	131	279	V
3	* 3.806	39.72	PKFH	33.7	-27.1	46.32	-	-	74	-27.68	264	349	H
	* 3.809	27.24	VA1T	33.7	-26.7	34.24	54	-19.76	-	-	264	349	H
6	* 3.608	39.36	PKFH	34.7	-28.9	45.16	-	-	74	-28.84	78	240	V
	* 3.607	28.06	VA1T	34.7	-28.9	33.86	54	-20.14	-	-	78	240	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

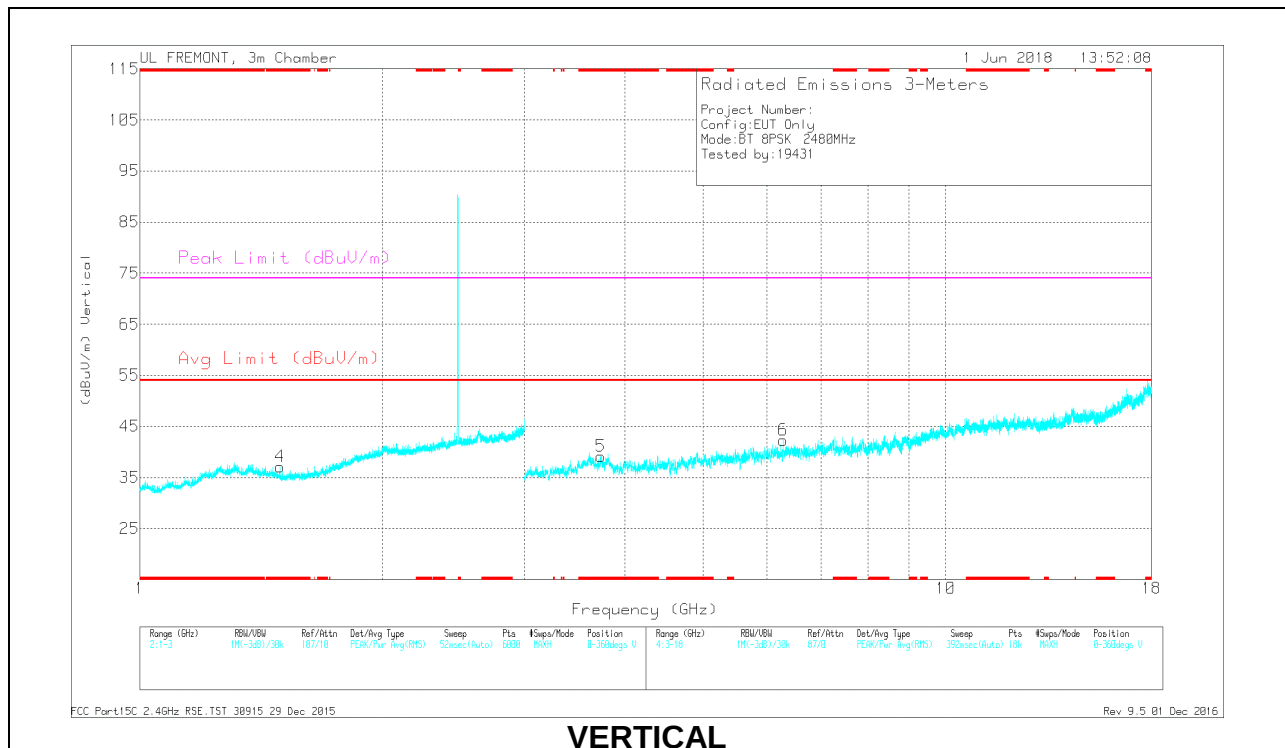
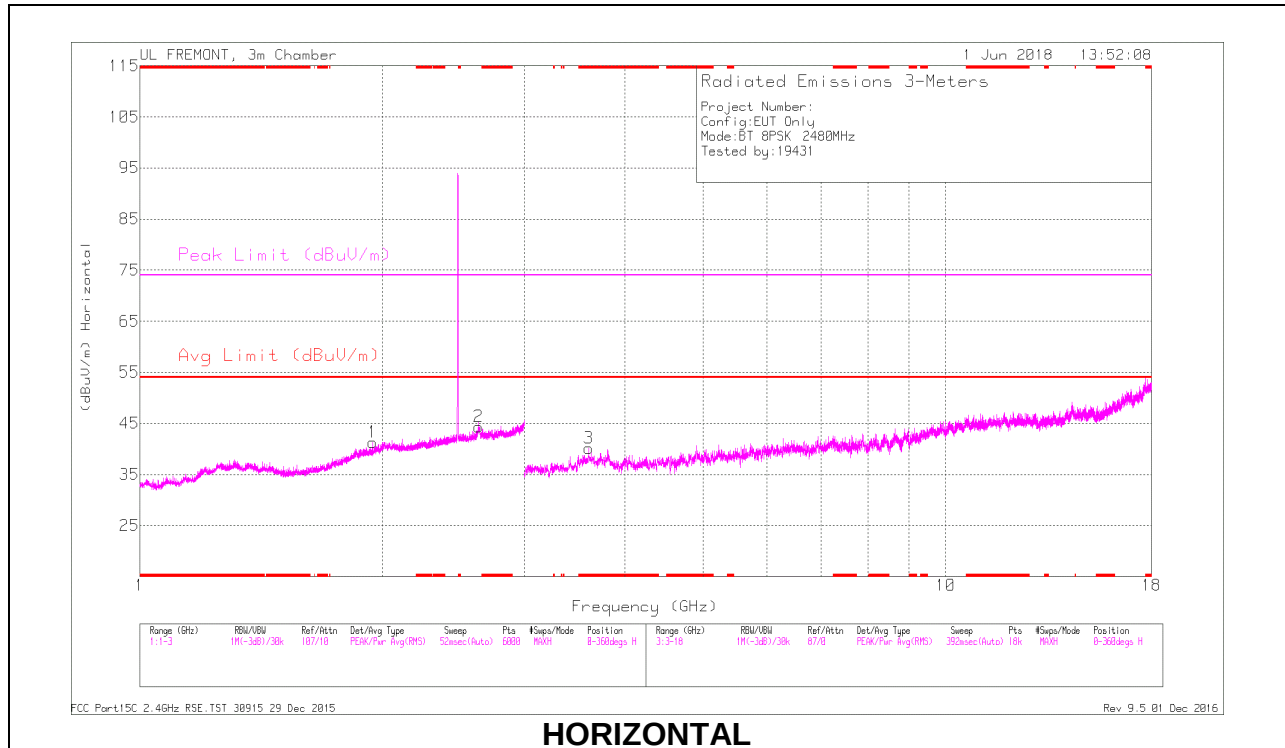
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 1.256	36.32	PKFH	29.9	-22.9	43.32	-	-	74	-30.68	334	195	H
	* 1.256	24.28	VA1T	29.9	-22.8	31.38	54	-22.62	-	-	334	195	H
2	* 2.351	36.74	PKFH	31.7	-21.5	46.94	-	-	74	-27.06	58	161	H
	* 2.352	25.06	VA1T	31.7	-21.5	35.26	54	-18.74	-	-	58	161	H
4	* 1.316	36.52	PKFH	29.8	-22.7	43.62	-	-	74	-30.38	253	314	V
	* 1.317	24.32	VA1T	29.7	-22.7	31.32	54	-22.68	-	-	253	314	V
5	* 1.562	36.43	PKFH	28	-21.8	42.63	-	-	74	-31.37	131	279	V
	* 1.564	24	VA1T	28	-21.8	30.2	54	-23.8	-	-	131	279	V
3	* 3.806	39.72	PKFH	33.7	-27.1	46.32	-	-	74	-27.68	264	349	H
	* 3.809	27.24	VA1T	33.7	-26.7	34.24	54	-19.76	-	-	264	349	H
6	* 3.608	39.36	PKFH	34.7	-28.9	45.16	-	-	74	-28.84	78	240	V
	* 3.607	28.06	VA1T	34.7	-28.9	33.86	54	-20.14	-	-	78	240	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	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (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
4	* 1.494	35.75	PKFH	28.2	-22.4	41.55	-	-	74	-32.45	304	395	V
	* 1.49	24.17	VA1T	28.3	-22.4	30.07	54	-23.93	-	-	304	395	V
3	* 3.604	39.94	PKFH	34.7	-29.1	45.54	-	-	74	-28.46	161	255	H
	* 3.607	28.09	VA1T	34.7	-28.9	33.89	54	-20.11	-	-	161	255	H
5	* 3.729	38.82	PKFH	34	-27.1	45.72	-	-	74	-28.28	189	200	V
	* 3.728	26.63	VA1T	34	-27.2	33.43	54	-20.57	-	-	189	200	V
1	1.942	35.97	PKFH	31.5	-21.9	45.57	-	-	-	-	203	238	H
2	2.634	37.79	PKFH	32.6	-20.1	50.29	-	-	-	-	41	199	H
6	6.278	36.18	PKFH	35.5	-23.8	47.88	-	-	-	-	315	145	V

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

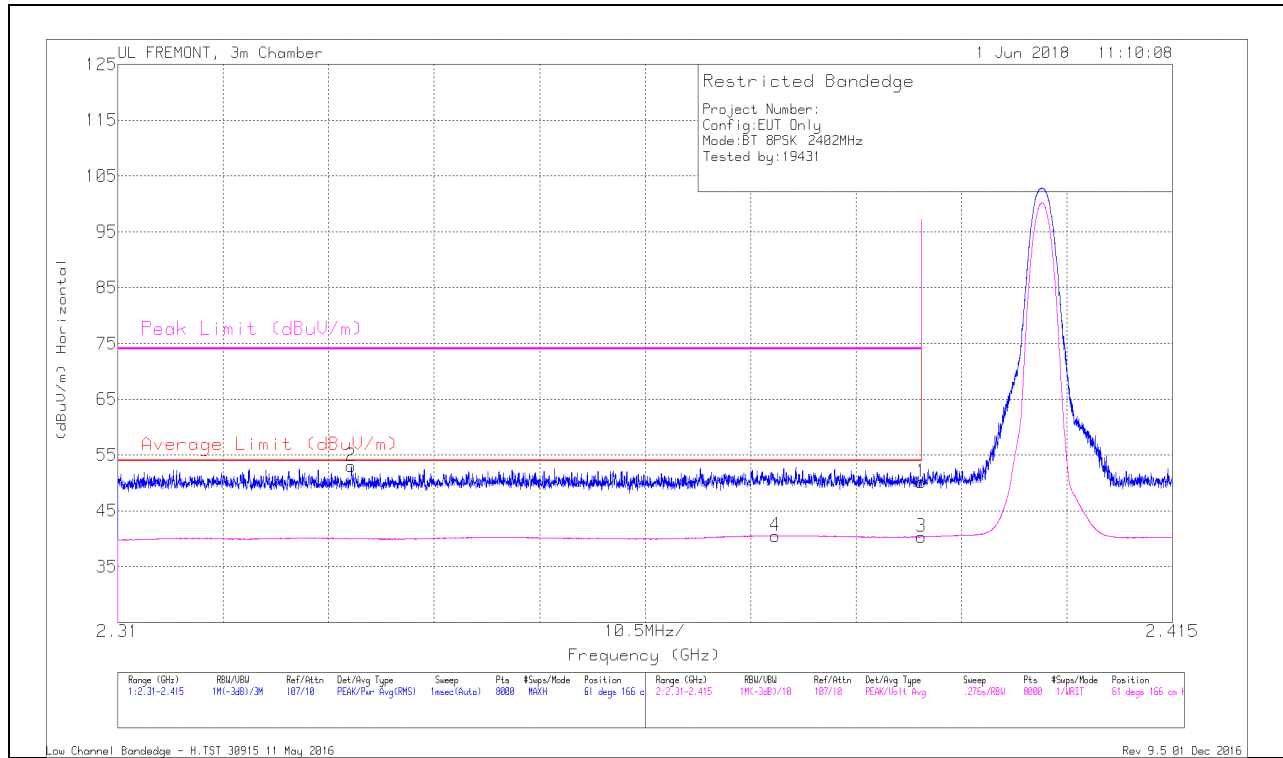
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

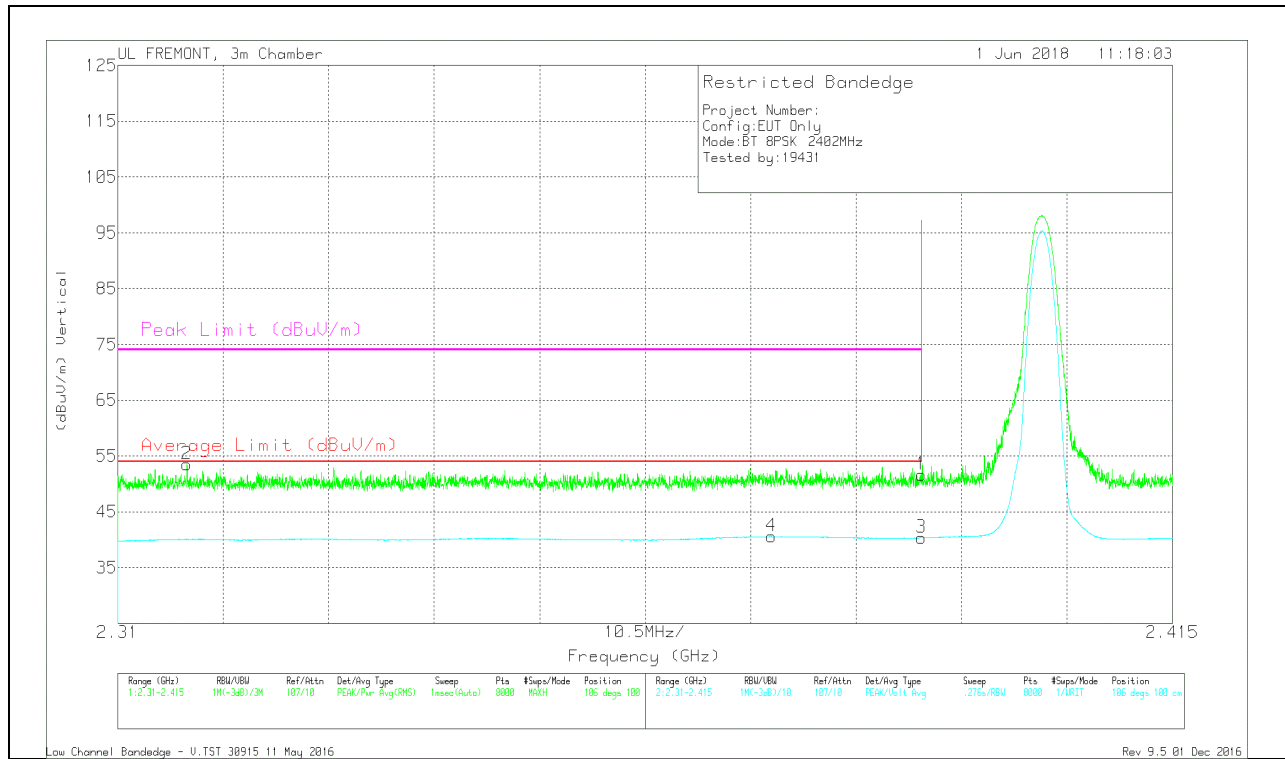


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.333	41.43	Pk	31.7	-20.1	53.03	-	-	74	-20.97	61	166	H
4	2.375	29.24	VA1T	31.8	-20.5	40.54	54	-13.46	-	-	61	166	H
1	2.39	38.85	Pk	31.9	-20.6	50.15	-	-	74	-23.85	61	166	H
3	2.39	29.02	VA1T	31.9	-20.6	40.32	54	-13.68	-	-	61	166	H

Pk - Peak detector

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

VERTICAL RESULT



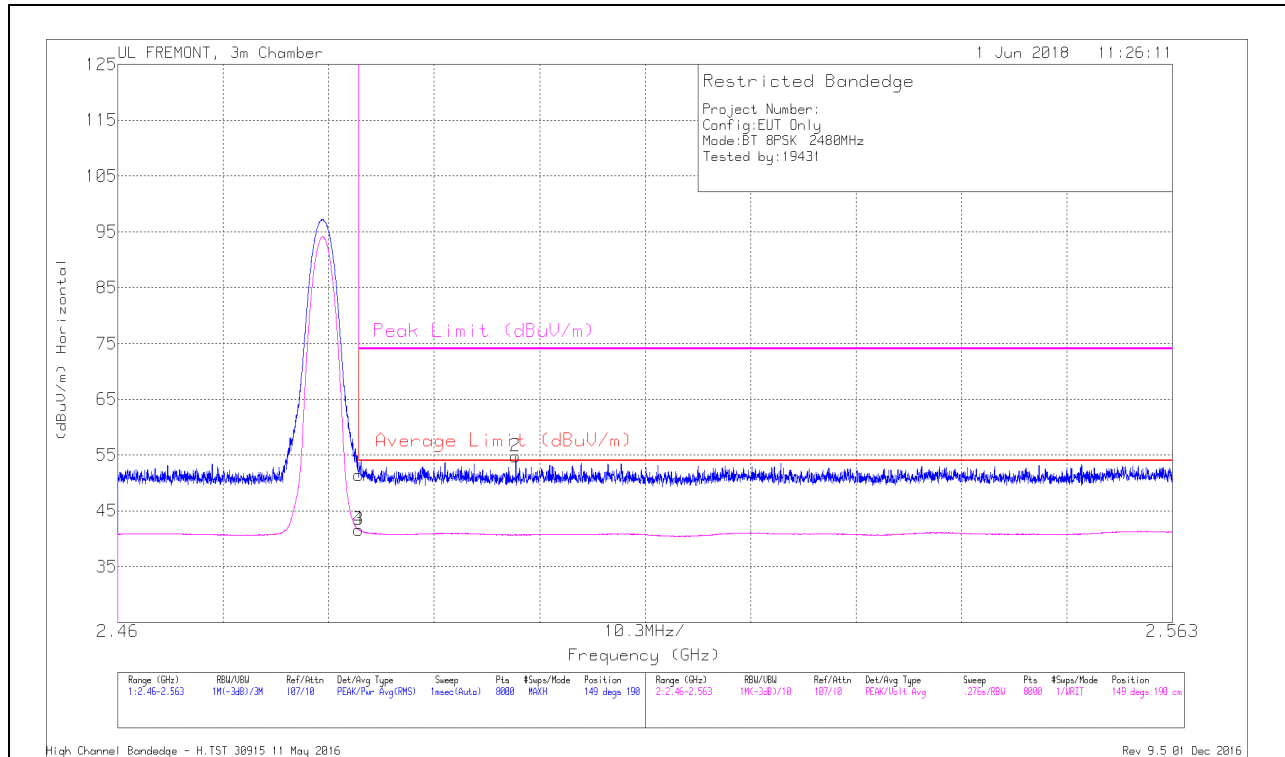
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Ampl/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.317	42.28	Pk	31.7	-20.5	53.48	-	-	74	-20.52	106	100	V
4	2.375	29.26	VA1T	31.8	-20.5	40.56	54	-13.44	-	-	106	100	V
1	2.39	40.36	Pk	31.9	-20.6	51.66	-	-	74	-22.34	106	100	V
3	2.39	29.02	VA1T	31.9	-20.6	40.32	54	-13.68	-	-	106	100	V

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

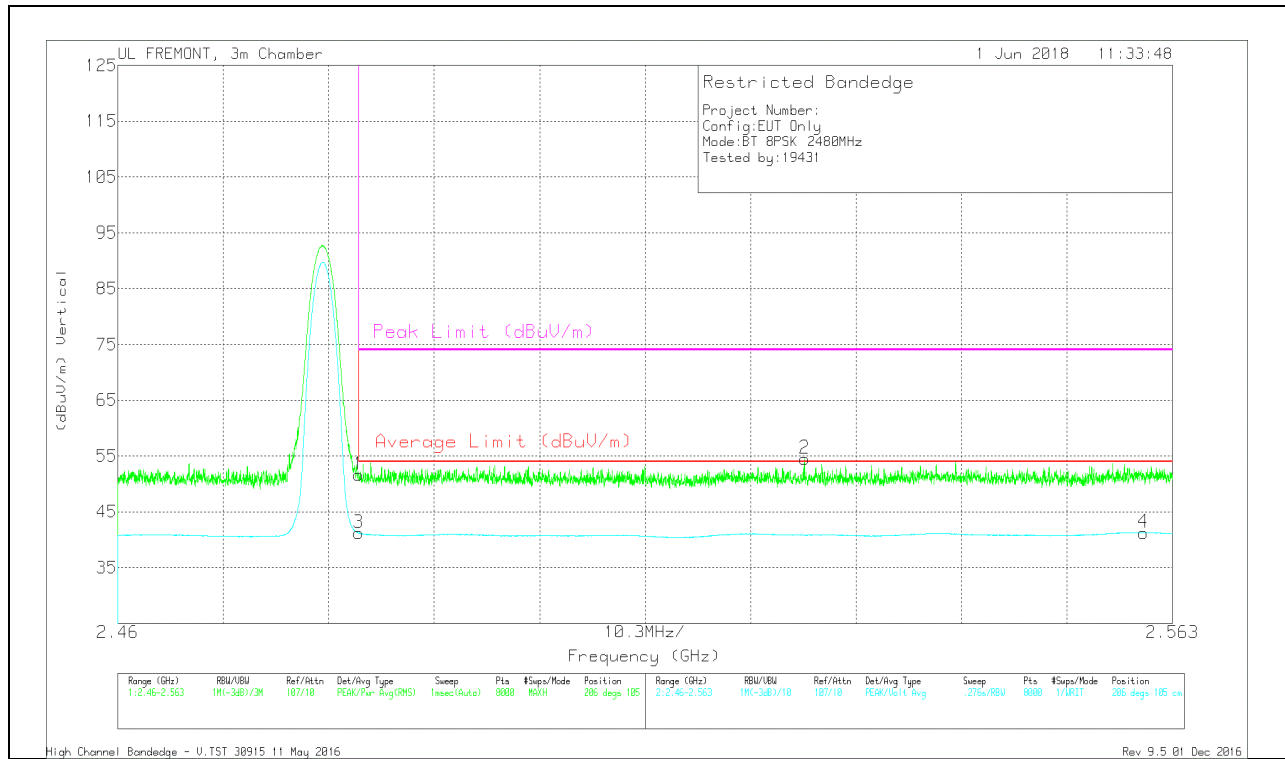


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	39.86	Pk	32.2	-20.7	51.36	-	-	74	-22.64	149	190	H
3	2.484	30.11	VA1T	32.2	-20.7	41.61	54	-12.39	-	-	149	190	H
4	2.484	30.07	VA1T	32.2	-20.7	41.57	54	-12.43	-	-	149	190	H
2	2.499	43.32	Pk	32.3	-20.9	54.72	-	-	74	-19.28	149	190	H

Pk - Peak detector

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

VERTICAL RESULT



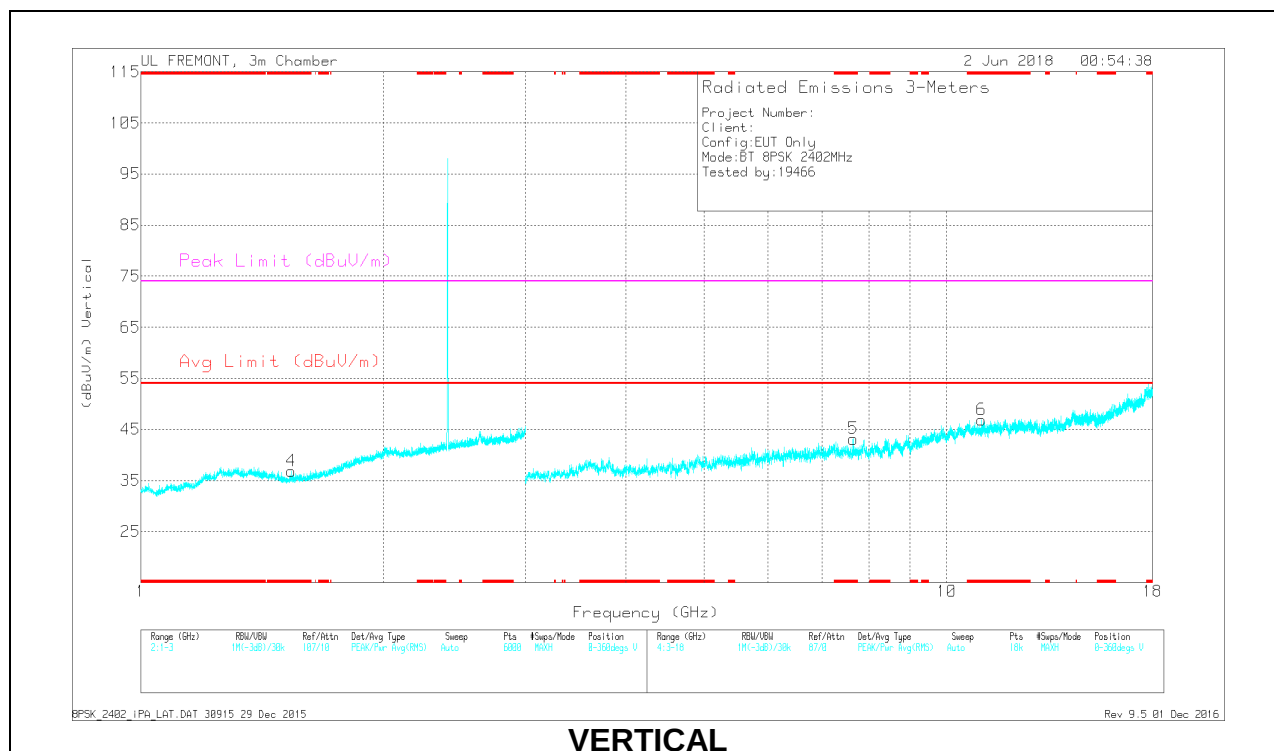
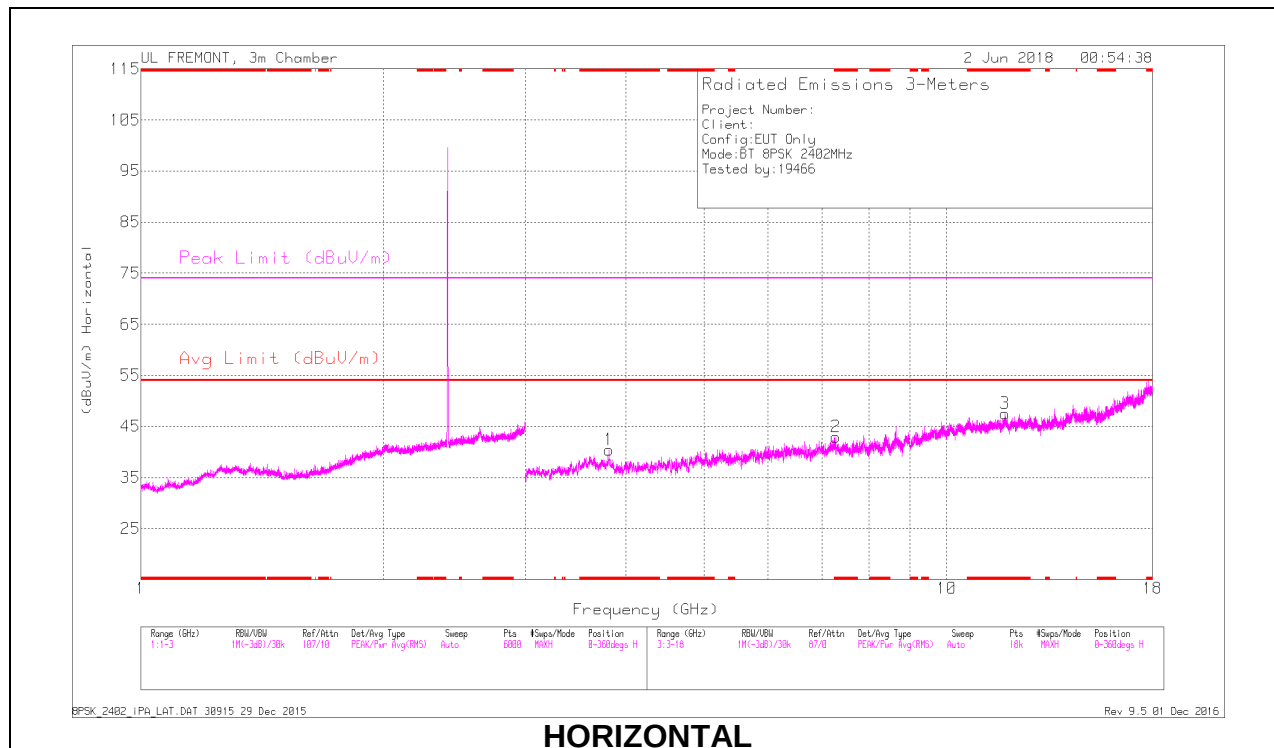
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1	2.484	40.13	Pk	32.2	-20.7	51.63	-	-	74	-22.37	206	105	V
3	2.484	29.72	VA1T	32.2	-20.7	41.22	54	-12.78	-	-	206	105	V
2	2.527	43.07	Pk	32.3	-20.8	54.57	-	-	74	-19.43	206	105	V
4	2.56	29.39	VA1T	32.3	-20.4	41.29	54	-12.71	-	-	206	105	V

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

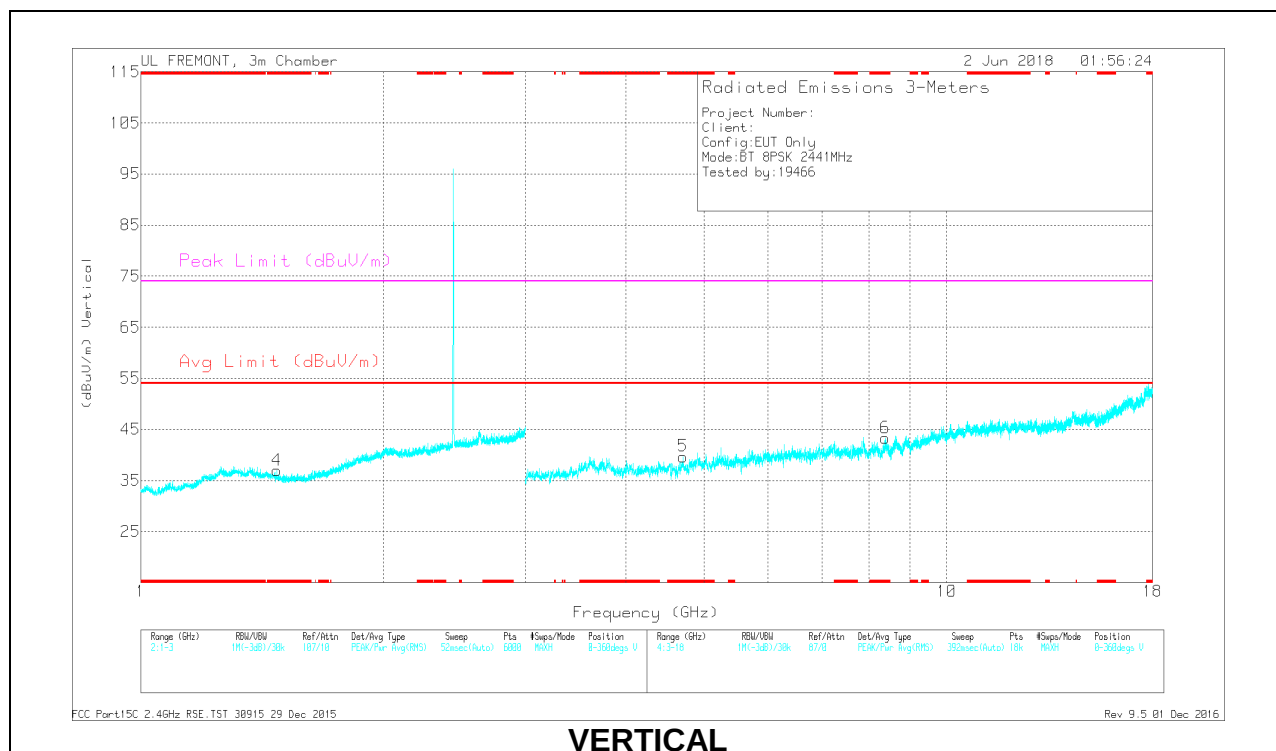
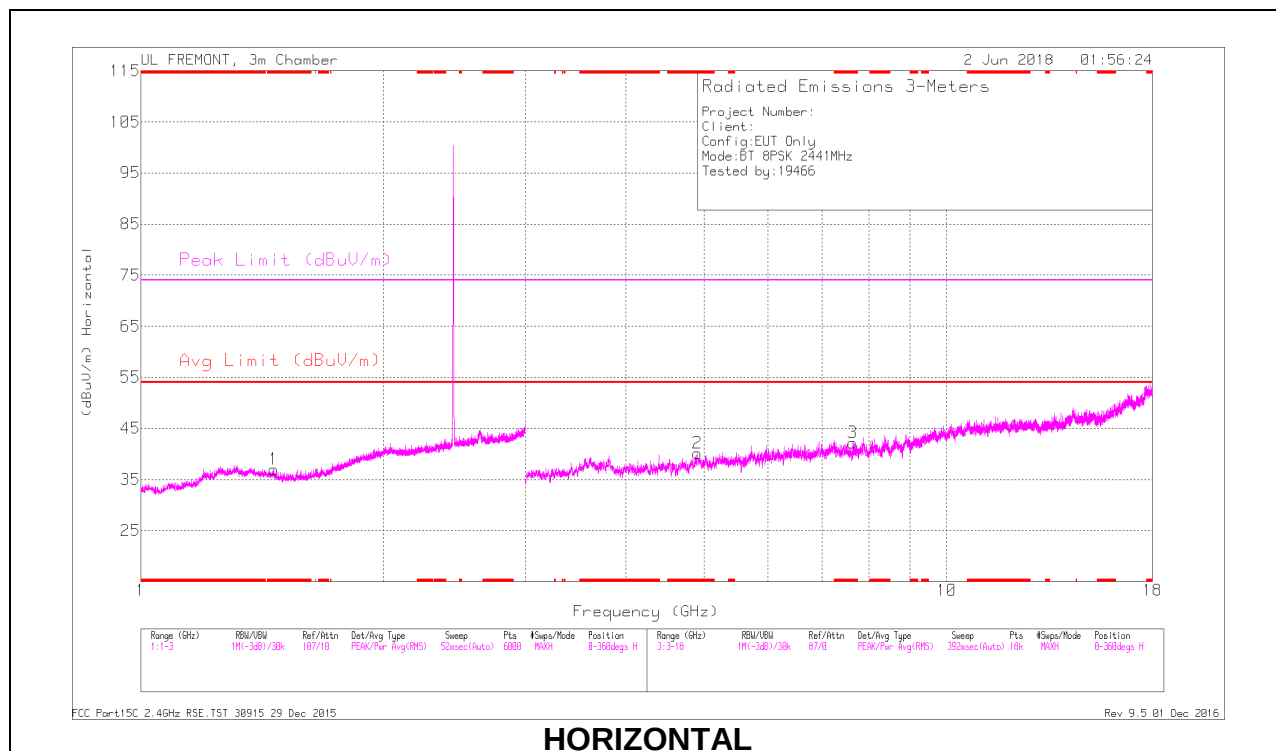
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.537	36.08	PKFH	28	-22.2	41.88	-	-	74	-32.12	176	191	V
	* 1.538	24.18	VA1T	28	-22.2	29.98	54	-24.02	-	-	176	191	V
1	* 3.81	38.94	PKFH	33.7	-26.7	45.94	-	-	74	-28.06	246	386	H
	* 3.813	27.63	VA1T	33.7	-27.1	34.23	54	-19.77	-	-	246	386	H
2	* 7.284	36.94	PKFH	35.7	-23.1	49.54	-	-	74	-24.46	31	120	H
	* 7.285	24.54	VA1T	35.7	-23.4	36.84	54	-17.16	-	-	31	120	H
3	* 11.807	35.26	PKFH	38.9	-21.5	52.66	-	-	74	-21.34	98	228	H
	* 11.808	23.35	VA1T	38.9	-21.5	40.75	54	-13.25	-	-	98	228	H
5	* 7.652	35.69	PKFH	35.8	-22.9	48.59	-	-	74	-25.41	39	150	V
	* 7.654	23.77	VA1T	35.8	-23.4	36.17	54	-17.83	-	-	39	150	V
6	* 11.049	34.96	PKFH	38.1	-20.5	52.56	-	-	74	-21.44	343	120	V
	* 11.047	22.93	VA1T	38.1	-20.6	40.43	54	-13.57	-	-	343	120	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

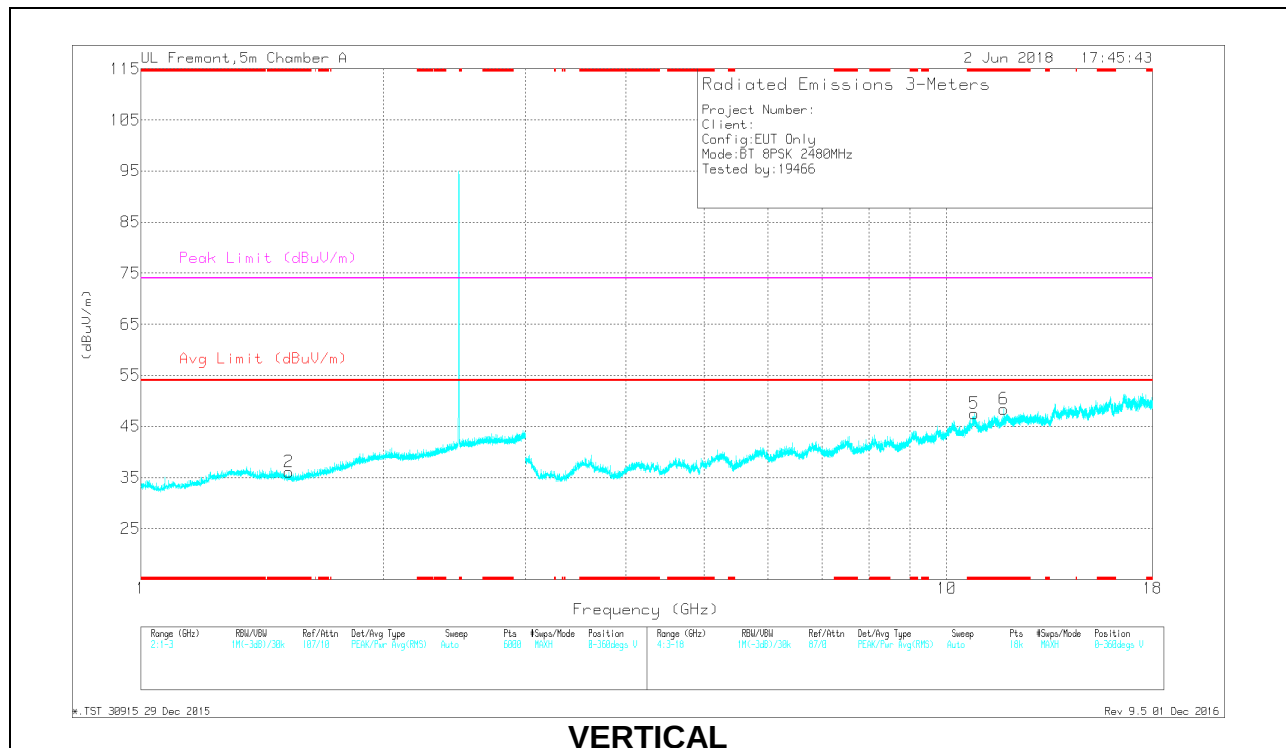
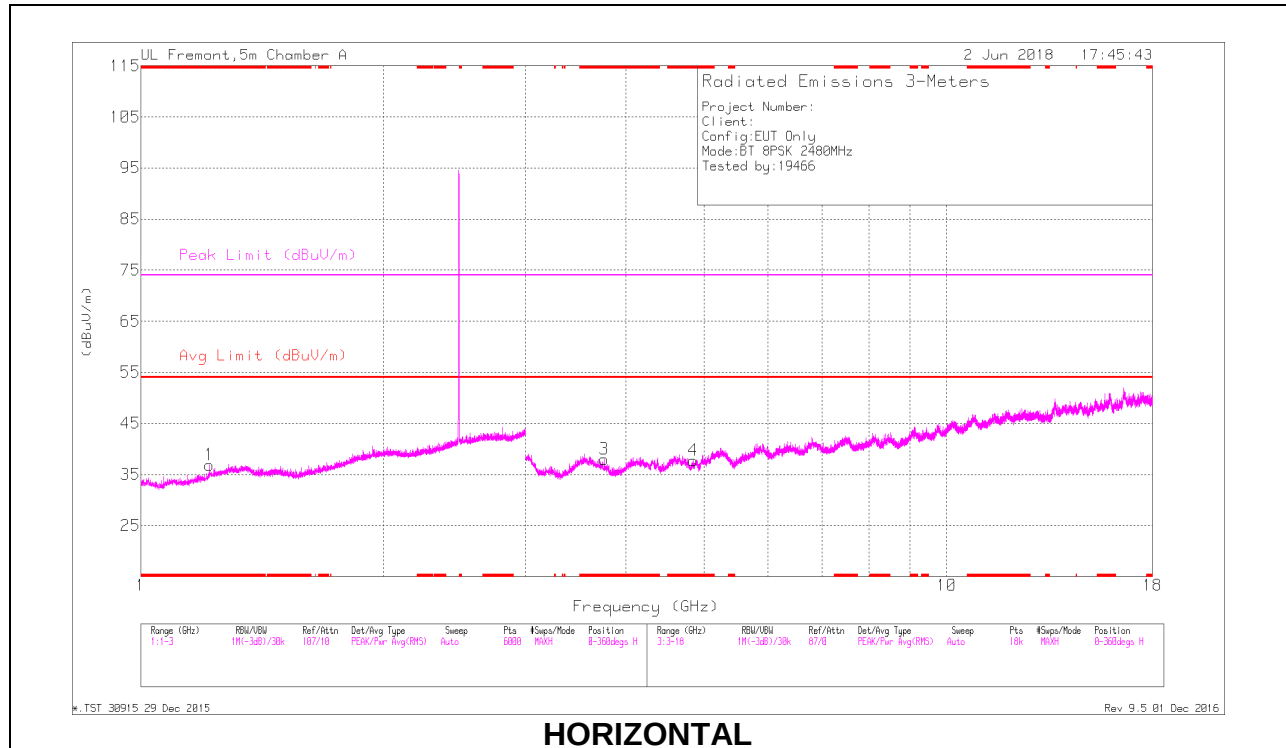
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.463	36.28	PKFH	28.7	-22.1	42.88	-	-	74	-31.12	293	273	H
	* 1.464	23.86	VA1T	28.7	-22.2	30.36	54	-23.64	-	-	293	273	H
4	* 1.474	36.45	PKFH	28.5	-22.4	42.55	-	-	74	-31.45	295	250	V
	* 1.476	24.23	VA1T	28.5	-22.5	30.23	54	-23.77	-	-	295	250	V
2	* 4.906	38.2	PKFH	34	-26.5	45.7	-	-	74	-28.3	162	334	H
	* 4.906	26.92	VA1T	34	-26.6	34.32	54	-19.68	-	-	162	334	H
3	* 7.651	34.72	PKFH	35.8	-22.4	48.12	-	-	74	-25.88	105	180	H
	* 7.651	23.4	VA1T	35.8	-22.6	36.6	54	-17.4	-	-	105	180	H
5	* 4.711	39.18	PKFH	34	-28	45.18	-	-	74	-28.82	171	245	V
	* 4.711	27.29	VA1T	34	-28	33.29	54	-20.71	-	-	171	245	V
6	* 8.385	36.28	PKFH	35.7	-21.5	50.48	-	-	74	-23.52	141	272	V
	* 8.385	23.29	VA1T	35.7	-21.5	37.49	54	-16.51	-	-	141	272	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

Markers	Frequenc y (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	* 1.214	35.99	PKFH	28.5	-23.8	40.69	-	-	74	-33.31	347	159	H
	* 1.218	24.3	VA1T	28.5	-23.5	29.3	54	-24.7	-	-	347	159	H
2	* 1.529	36.11	PKFH	28	-23.4	40.71	-	-	74	-33.29	232	141	V
	* 1.528	24.51	VA1T	28.1	-23.4	29.21	54	-24.79	-	-	232	141	V
3	* 3.755	38	PKFH	33.2	-28.3	42.9	-	-	74	-31.1	228	102	H
	* 3.756	25.75	VA1T	33.2	-28.3	30.65	54	-23.35	-	-	228	102	H
4	* 4.85	35.78	PKFH	34.2	-26.9	43.08	-	-	74	-30.92	239	222	H
	* 4.848	24.16	VA1T	34.2	-26.9	31.46	54	-22.54	-	-	239	222	H
5	* 10.82	32.78	PKFH	37.8	-17.9	52.68	-	-	74	-21.32	228	164	V
	* 10.819	20.53	VA1T	37.8	-17.9	40.43	54	-13.57	-	-	228	164	V
6	* 11.763	31.98	PKFH	38.7	-18.5	52.18	-	-	74	-21.82	113	169	V
	* 11.761	20.44	VA1T	38.7	-18.4	40.74	54	-13.26	-	-	113	169	V

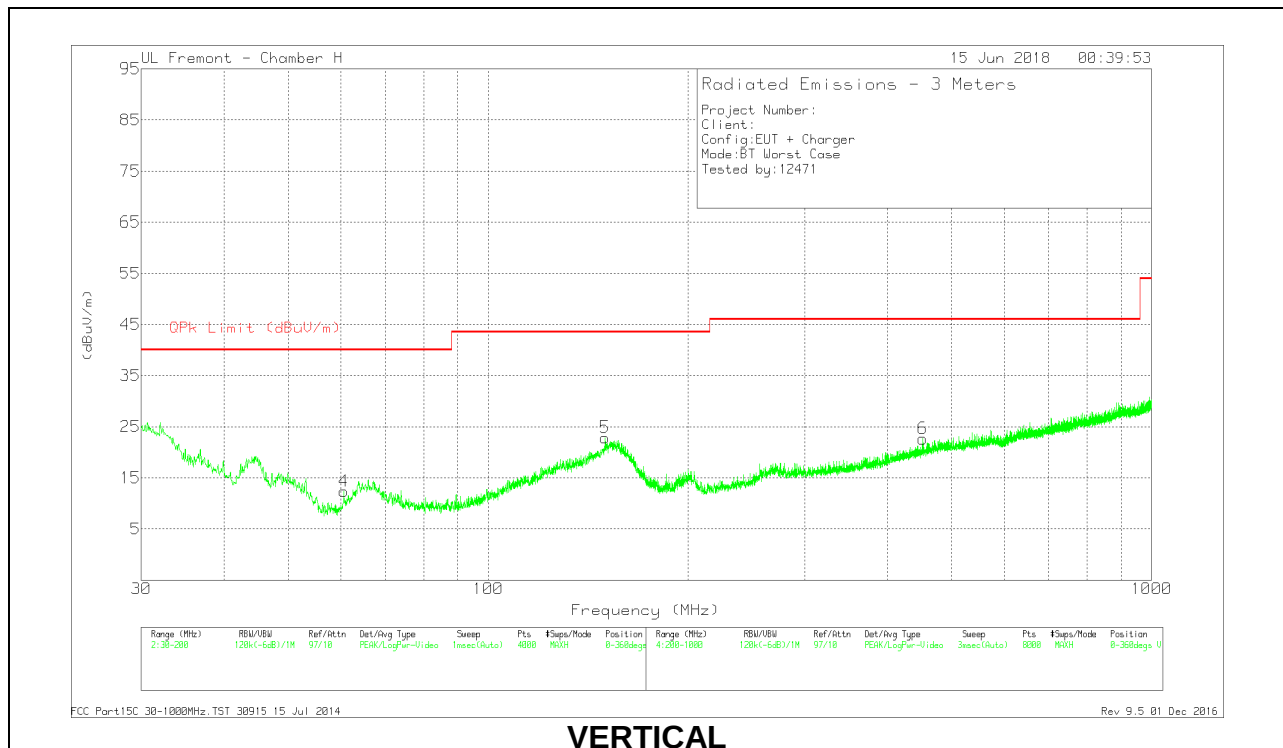
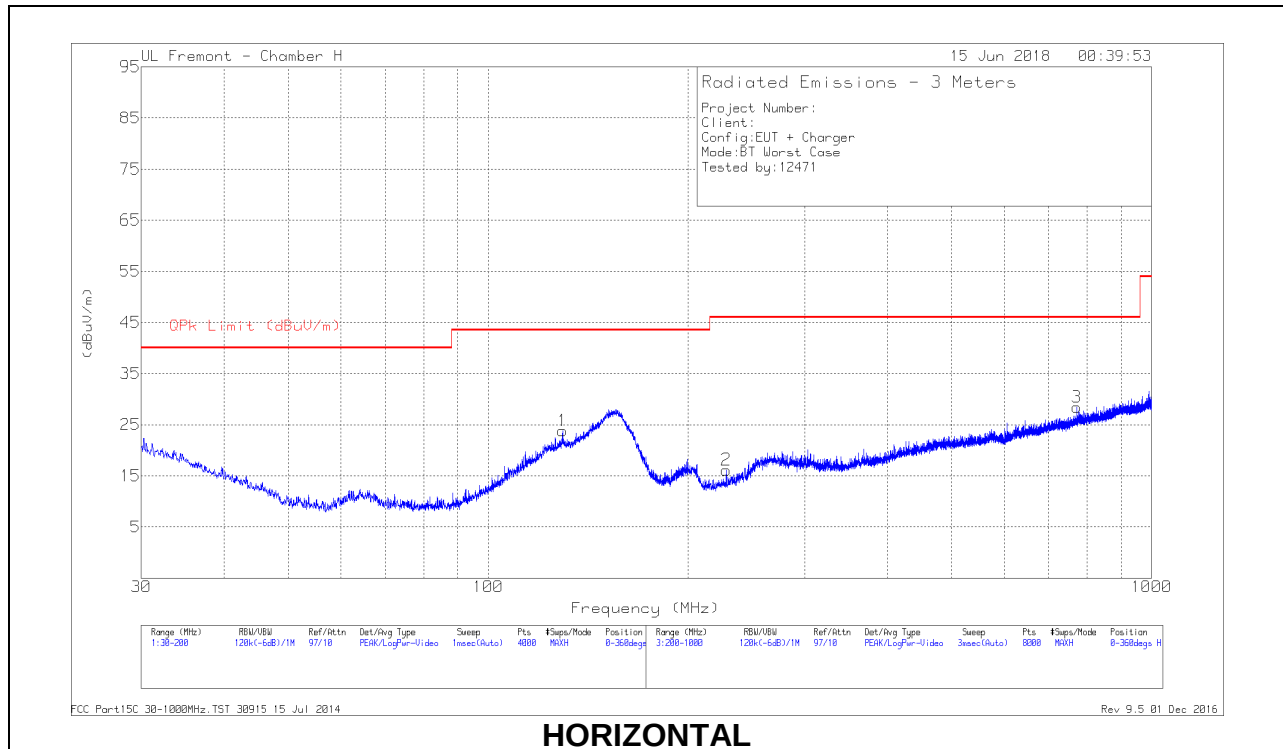
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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)

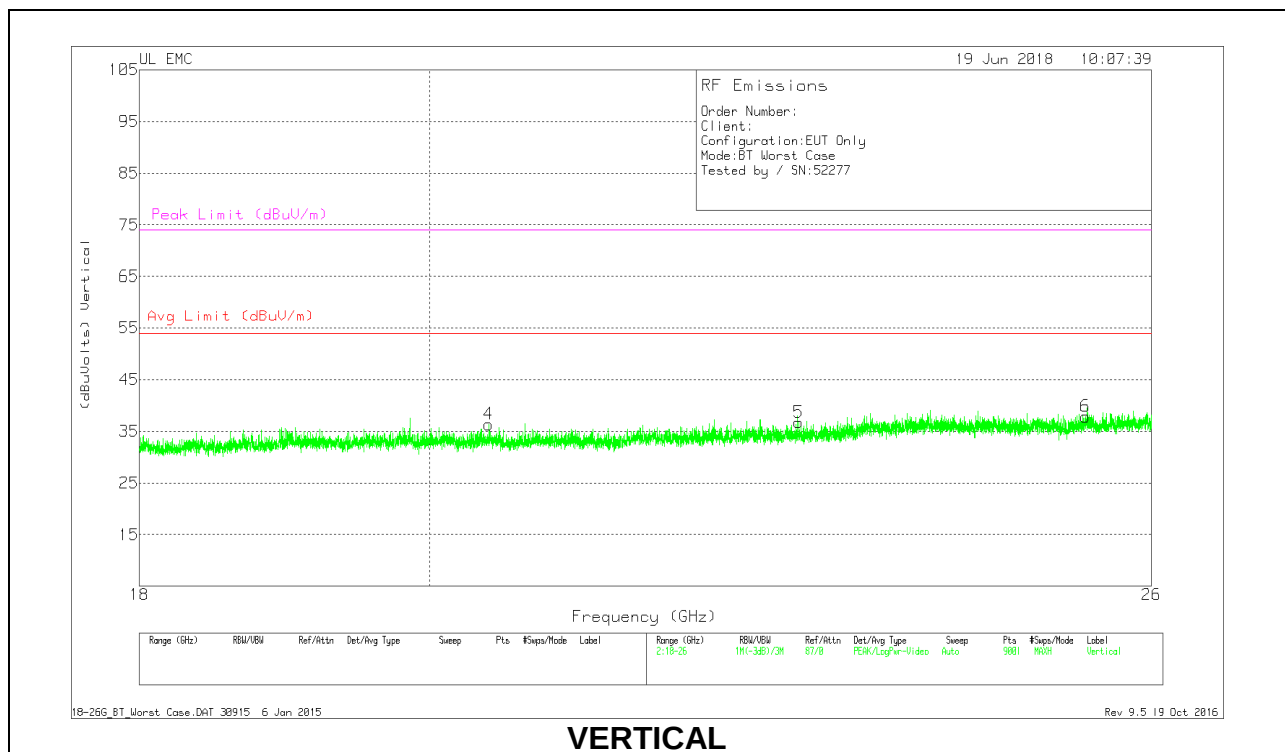
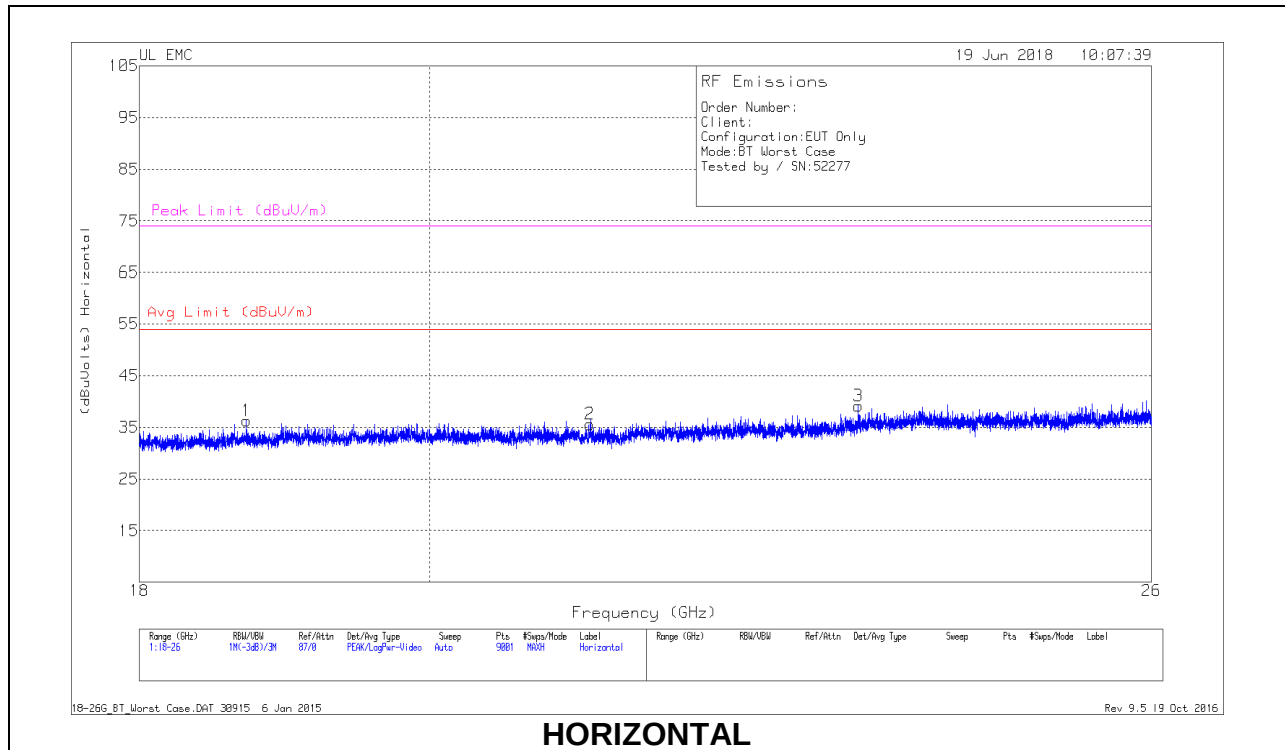


Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T185 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 129.5183	36.21	Pk	17.8	-30.2	23.81	43.52	-19.71	0-360	199	H
5	150.1361	36.75	Pk	16.2	-30.1	22.85	43.52	-20.67	0-360	100	V
2	228.6037	30.75	Pk	15	-29.6	16.15	46.02	-29.87	0-360	101	H
6	452.2328	30.37	Pk	20.8	-28.5	22.67	46.02	-23.35	0-360	100	V
4	60.6079	31.97	Pk	11.3	-30.9	12.37	40	-27.63	0-360	100	V
3	771.3743	30.93	Pk	24.9	-27.4	28.43	46.02	-17.59	0-360	101	H

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	18.714	38.06	Pk	32.3	-24.6	-9.5	36.26	54	-17.74	74	-37.74
2	21.202	36.77	Pk	33	-24.7	-9.5	35.57	54	-18.43	74	-38.43
3	23.372	39.44	Pk	33.8	-24.6	-9.5	39.14	54	-14.86	74	-34.86
4	20.436	37.93	Pk	33.1	-25.2	-9.5	36.33	54	-17.67	74	-37.67
5	22.871	37.71	Pk	33.5	-25	-9.5	36.71	54	-17.29	74	-37.29
6	25.385	37.36	Pk	34.3	-24.3	-9.5	37.86	54	-16.14	74	-36.14

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.

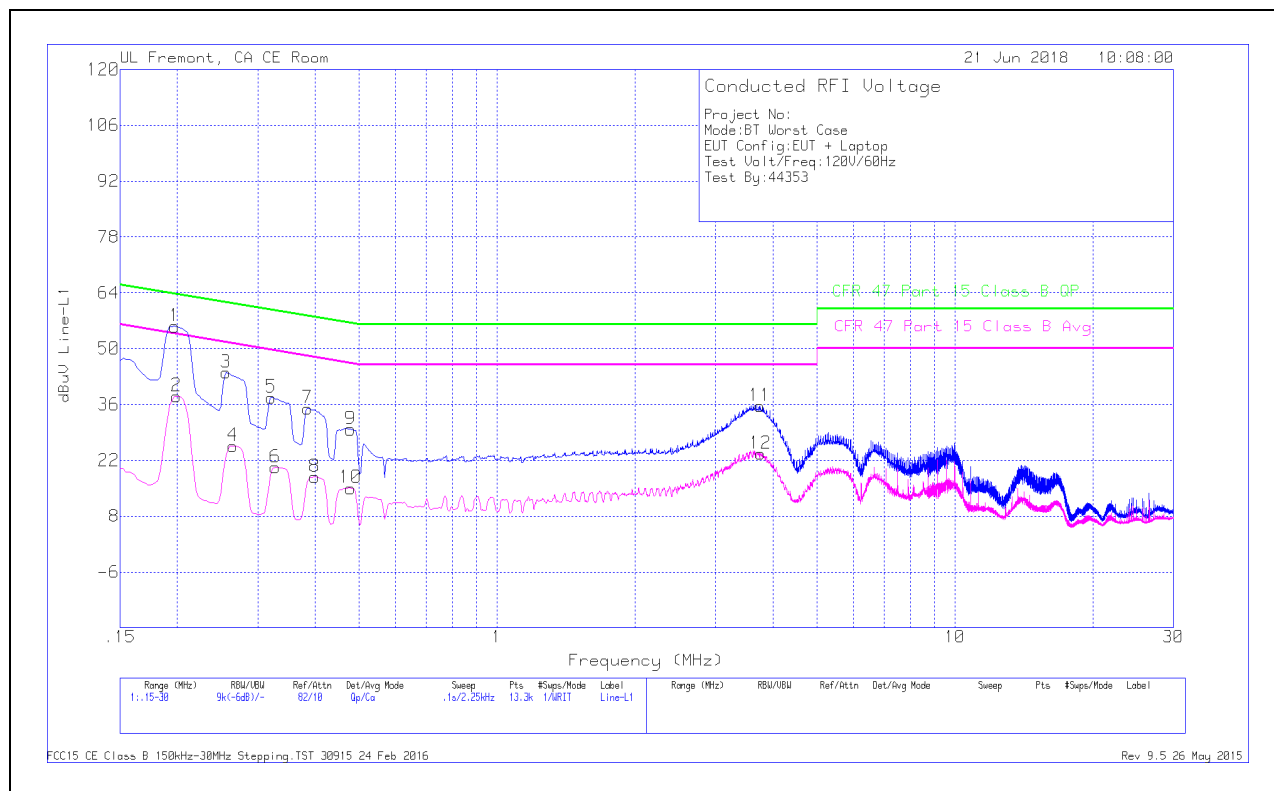
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1.1. AC Power Line Host

LINE 1 RESULTS

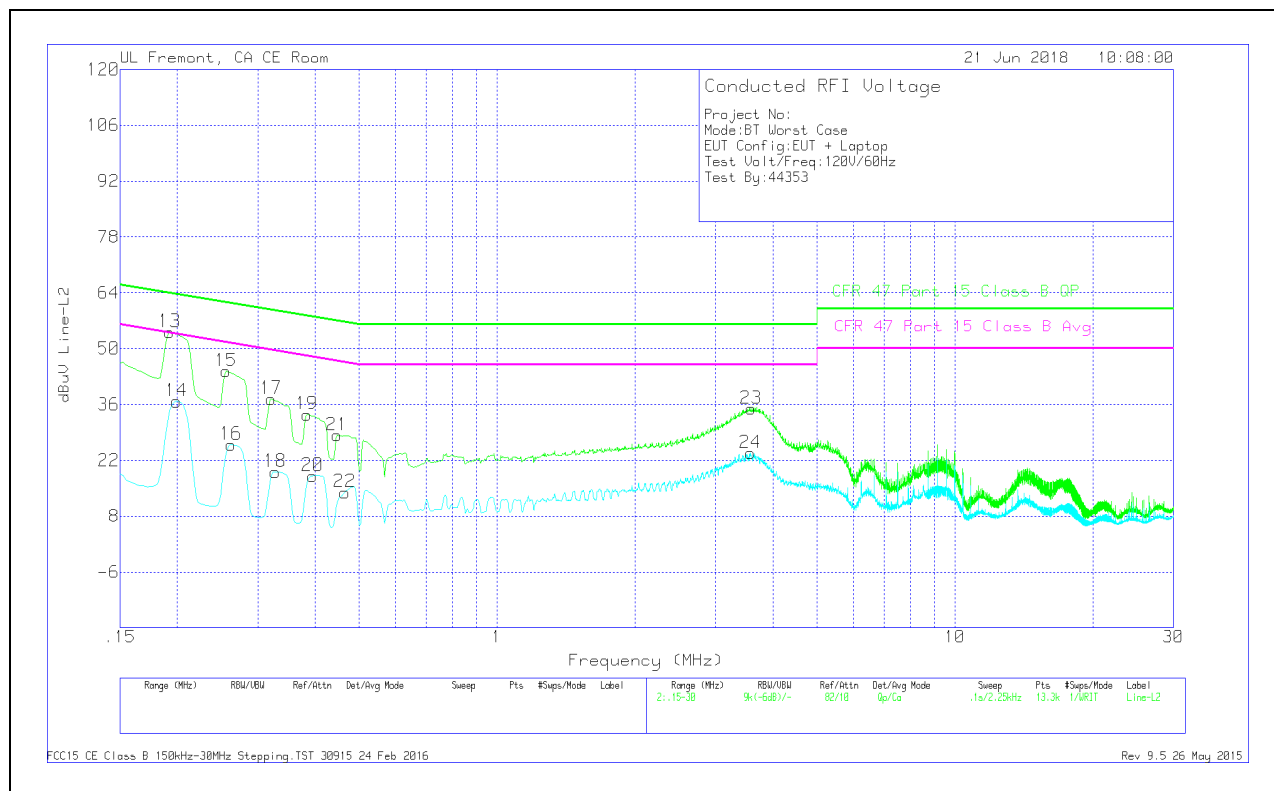


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.19725	44.89	Qp	.6	0	10.1	55.59	63.73	-8.14	-	-
2	.1995	27.4	Ca	.6	0	10.1	38.1	-	-	53.63	-15.53
3	.25575	33.5	Qp	.4	0	10.1	44	61.57	-17.57	-	-
4	.26475	15.12	Ca	.4	0	10.1	25.62	-	-	51.28	-25.66
5	.321	27.25	Qp	.4	0	10.1	37.75	59.68	-21.93	-	-
6	.32775	9.82	Ca	.3	0	10.1	20.22	-	-	49.51	-29.29
7	.38512	24.73	Qp	.2	0	10.1	35.03	58.17	-23.14	-	-
8	.39975	7.54	Ca	.2	0	10.1	17.84	-	-	47.86	-30.02
9	.4785	19.57	Qp	.1	0	10.1	29.77	56.37	-26.6	-	-
10	.4785	4.83	Ca	.1	0	10.1	15.03	-	-	46.37	-31.34
11	3.75225	25.31	Qp	.1	.1	10.1	35.61	56	-20.39	-	-
12	3.76125	13.36	Ca	.1	.1	10.1	23.66	-	-	46	-22.34

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



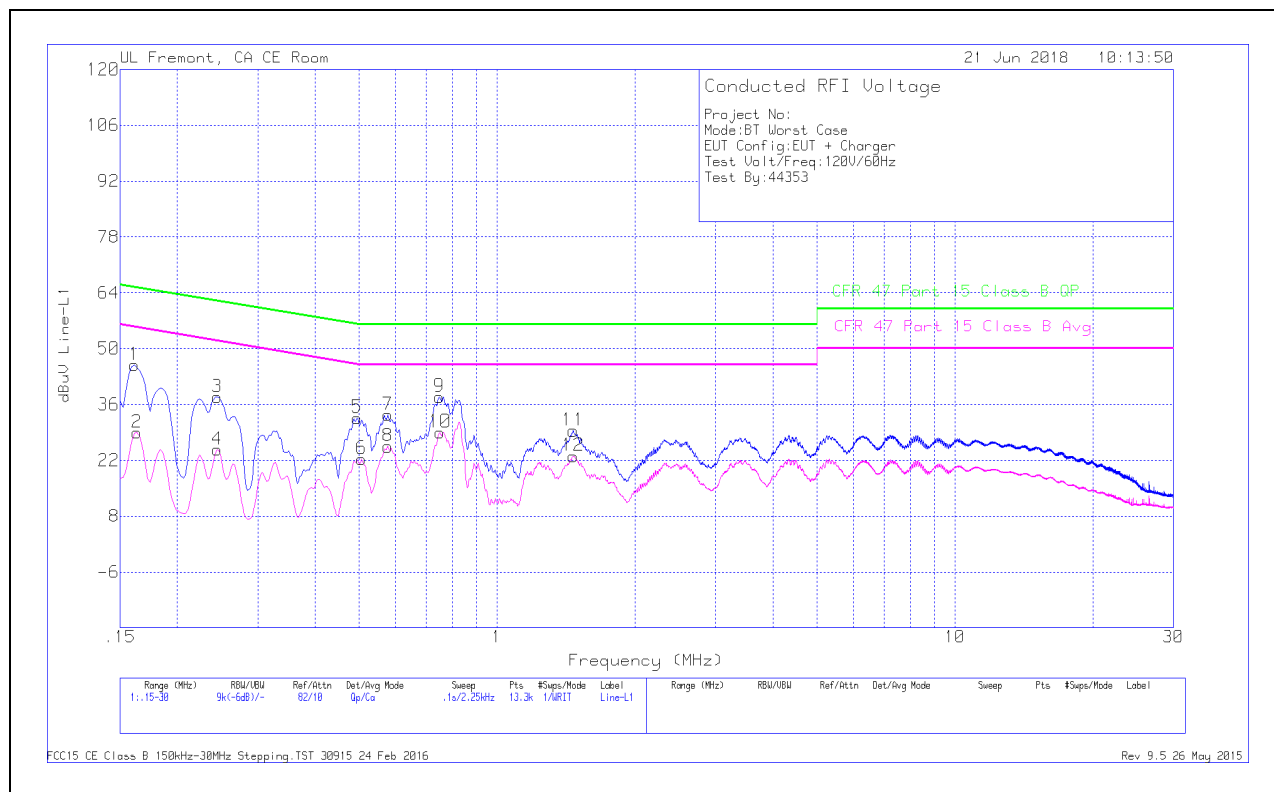
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.19275	43.95	Qp	.1	0	10.1	54.15	63.92	-9.77	-	-
14	.1995	26.58	Ca	.1	0	10.1	36.78	-	-	53.63	-16.85
15	.25575	34.16	Qp	.1	0	10.1	44.36	61.57	-17.21	-	-
16	.2625	15.75	Ca	.1	0	10.1	25.95	-	-	51.35	-25.4
17	.321	27.17	Qp	.1	0	10.1	37.37	59.68	-22.31	-	-
18	.32775	8.89	Ca	.1	0	10.1	19.09	-	-	49.51	-30.42
19	.384	23.29	Qp	.1	0	10.1	33.49	58.19	-24.7	-	-
20	.39525	7.87	Ca	.1	0	10.1	18.07	-	-	47.95	-29.88
21	.447	18.1	Qp	.1	0	10.1	28.3	56.93	-28.63	-	-
22	.465	3.8	Ca	.1	0	10.1	14	-	-	46.6	-32.6
23	3.588	24.72	Qp	0	.1	10.1	34.92	56	-21.08	-	-
24	3.57675	13.64	Ca	0	.1	10.1	23.84	-	-	46	-22.16

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.1.2. AC Power Line Norm

LINE 1 RESULTS

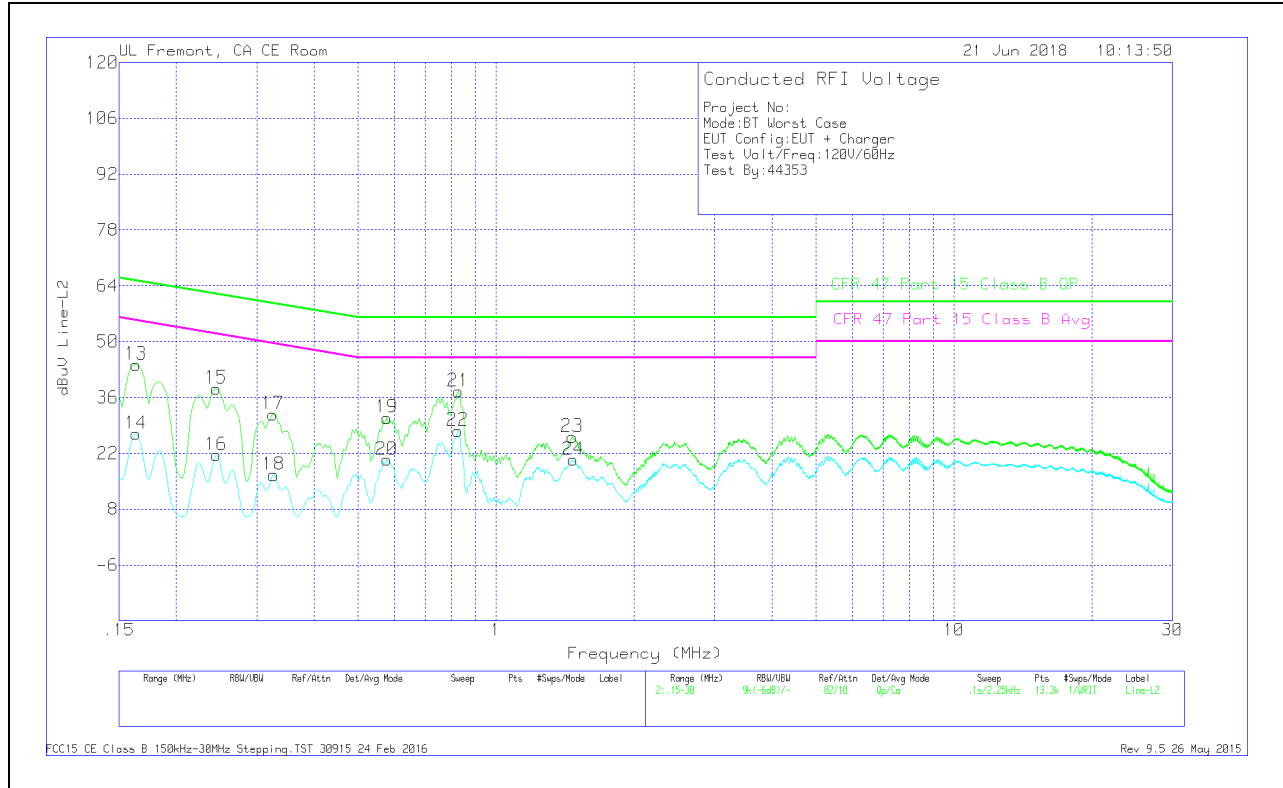


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.16125	35.1	Qp	.7	0	10.1	45.9	65.4	-19.5	-	-
2	.1635	18.18	Ca	.7	0	10.1	28.98	-	-	55.28	-26.3
3	.2445	27.32	Qp	.4	0	10.1	37.82	61.94	-24.12	-	-
4	.2445	14.17	Ca	.4	0	10.1	24.67	-	-	51.94	-27.27
5	.49425	22.43	Qp	.1	0	10.1	32.63	56.1	-23.47	-	-
6	.5055	12.17	Ca	.1	0	10.1	22.37	-	-	46	-23.63
7	.5775	23.18	Qp	.1	0	10.1	33.38	56	-22.62	-	-
8	.5775	15.29	Ca	.1	0	10.1	25.49	-	-	46	-20.51
9	.7485	27.7	Qp	.1	0	10.1	37.9	56	-18.1	-	-
10	.75075	18.82	Ca	.1	0	10.1	29.02	-	-	46	-16.98
11	1.46625	19.11	Qp	.1	.1	10.1	29.41	56	-26.59	-	-
12	1.46625	12.76	Ca	.1	.1	10.1	23.06	-	-	46	-22.94

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	34.06	Qp	.1	0	10.1	44.26	65.28	-21.02	-	-
14	.1635	16.7	Ca	.1	0	10.1	26.9	-	-	55.28	-28.38
15	.2445	28.07	Qp	.1	0	10.1	38.27	61.94	-23.67	-	-
16	.2445	11.39	Ca	.1	0	10.1	21.59	-	-	51.94	-30.35
17	.3255	21.58	Qp	.1	0	10.1	31.78	59.57	-27.79	-	-
18	.32662	6.38	Ca	.1	0	10.1	16.58	-	-	49.54	-32.96
19	.5775	20.74	Qp	.1	0	10.1	30.94	56	-25.06	-	-
20	.5775	10.17	Ca	.1	0	10.1	20.37	-	-	46	-25.63
21	.82725	27.34	Qp	.1	0	10.1	37.54	56	-18.46	-	-
22	.825	17.46	Ca	.1	0	10.1	27.66	-	-	46	-18.34
23	1.46625	15.92	Qp	0	.1	10.1	26.12	56	-29.88	-	-
24	1.473	10.19	Ca	0	.1	10.1	20.39	-	-	46	-25.61

Qp - Quasi-Peak detector
Ca - CISPR average detection

END OF REPORT

11. SETUP PHOTOS

Please refer to 12216366-EP1V1 for setup photos