

8.10.5. OUTPUT POWER

ID:	30554	Date:	7/13/17
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LIMITS

§15.247 (b) (1)

RSS-247 (5.4) (b)

The maximum antenna gain is less than 6 dBi, therefore the limit is 30 dBm.

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

TEST PROCEDURE

The transmitter output is connected to a wideband peak and average power meter.

RESULTS

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	19.91	21	-1.09
Middle	2441	20.09	21	-0.91
High	2480	19.98	21	-1.02

8.10.6. AVERAGE POWER

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LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	17.46
Middle	2441	17.49
High	2480	17.44

8.10.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-247 (5.5)

Limit = -20 dBc

TEST PROCEDURE

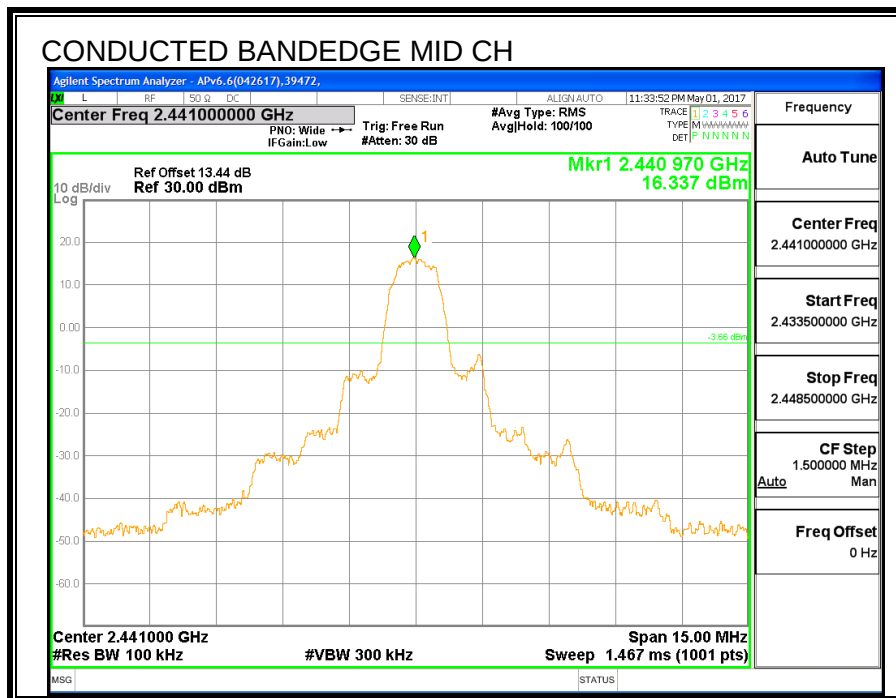
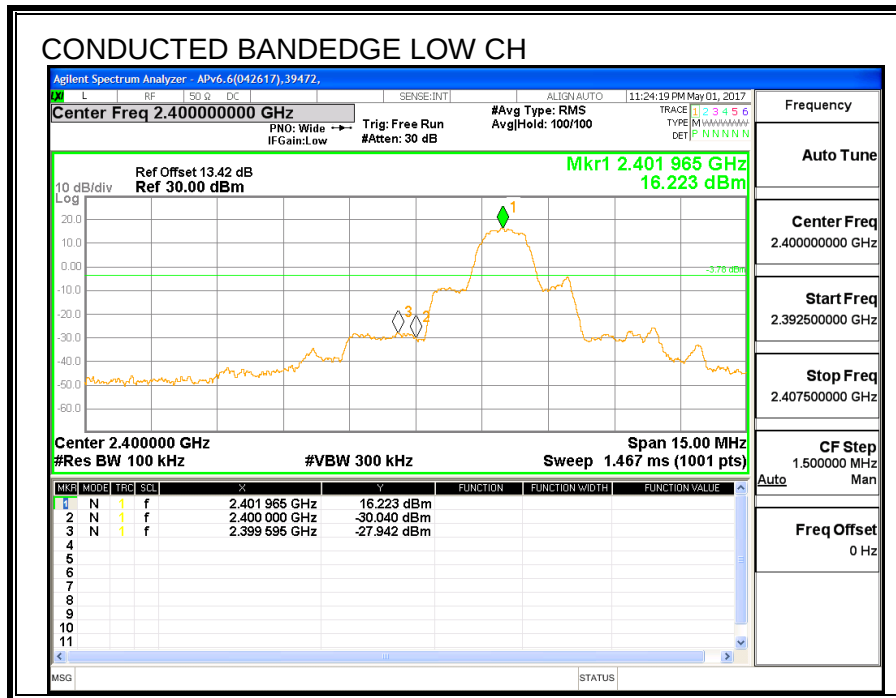
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

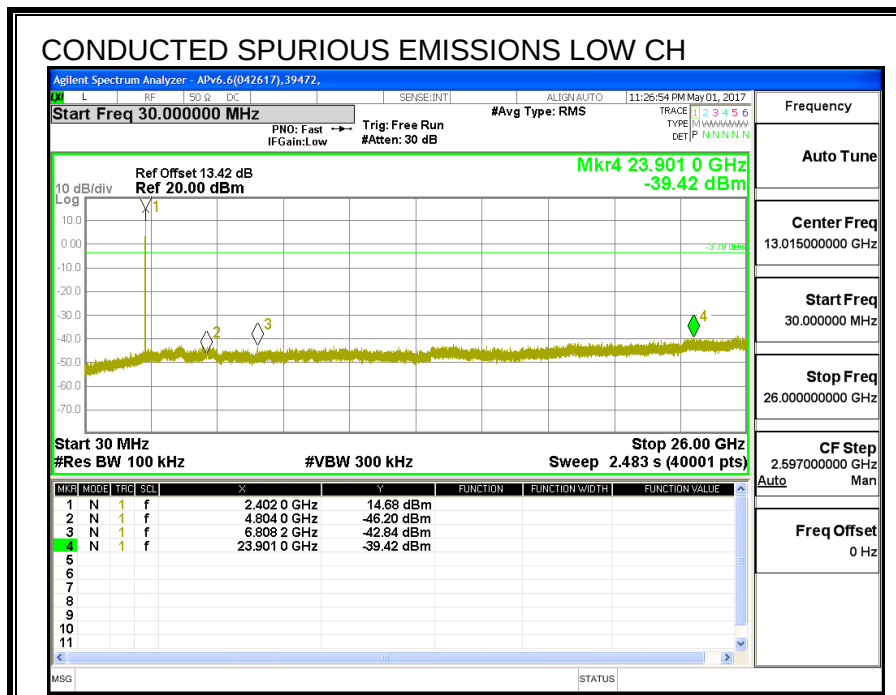
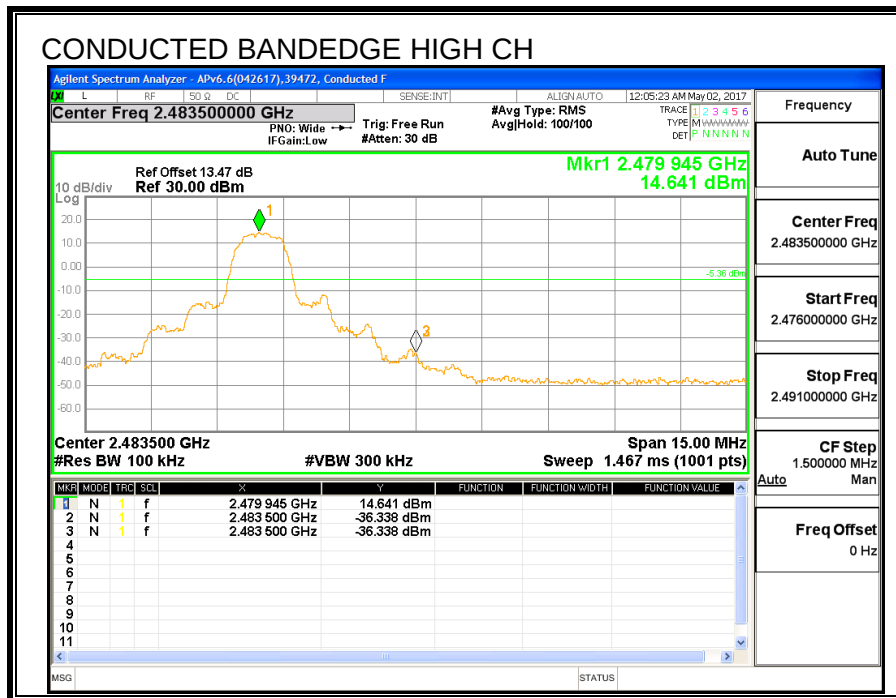
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

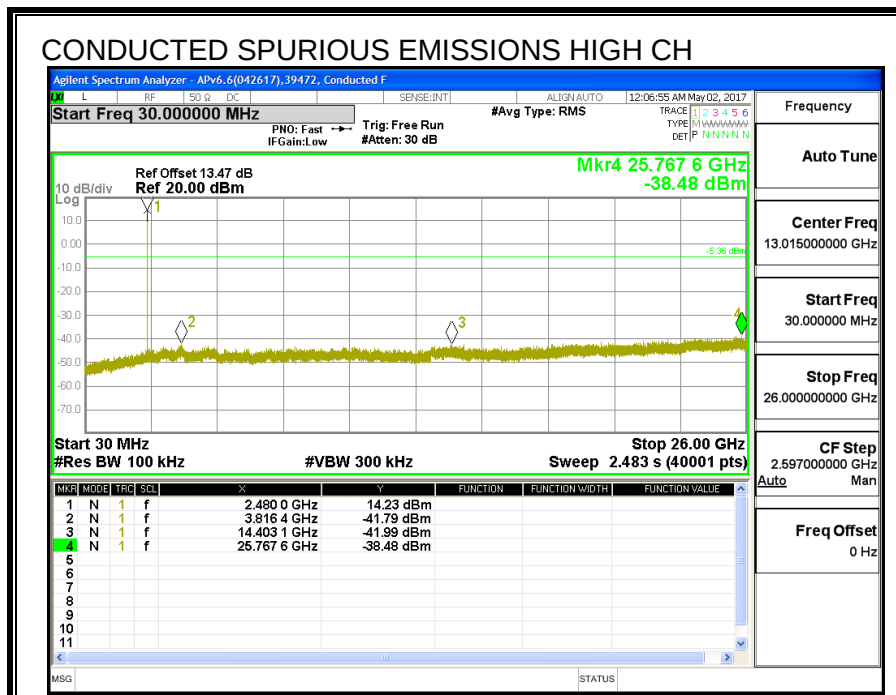
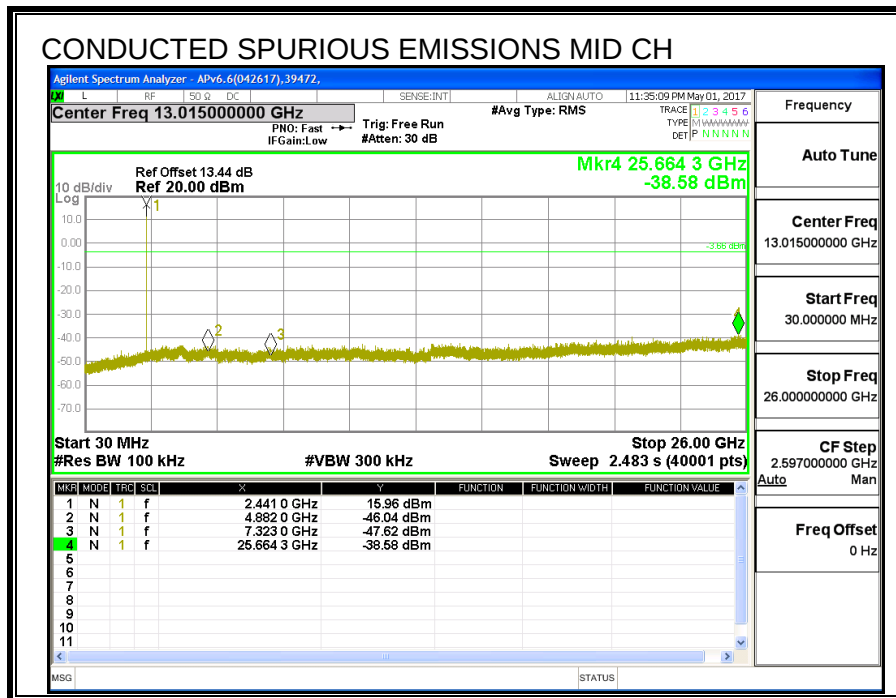
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

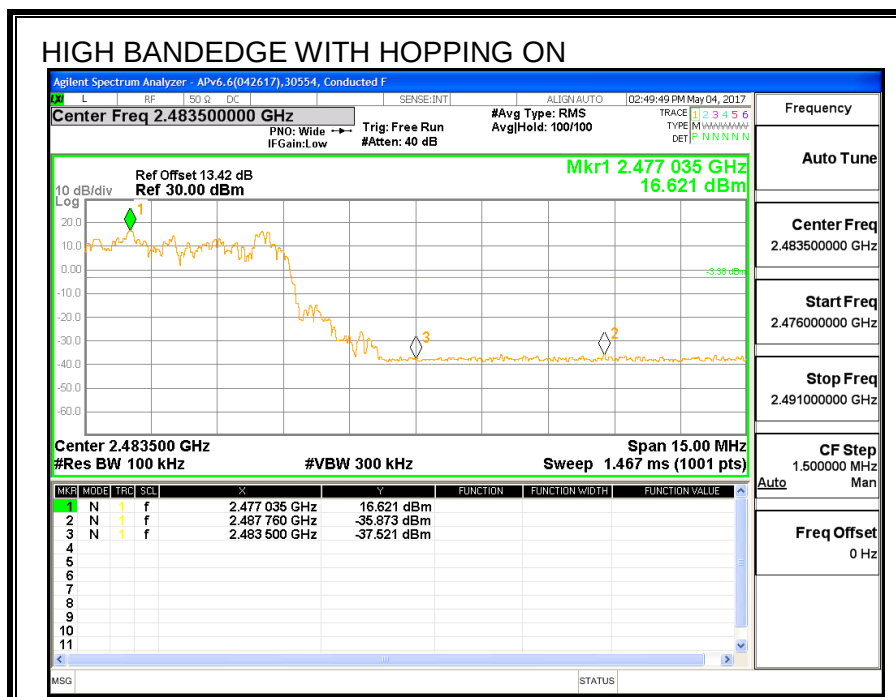
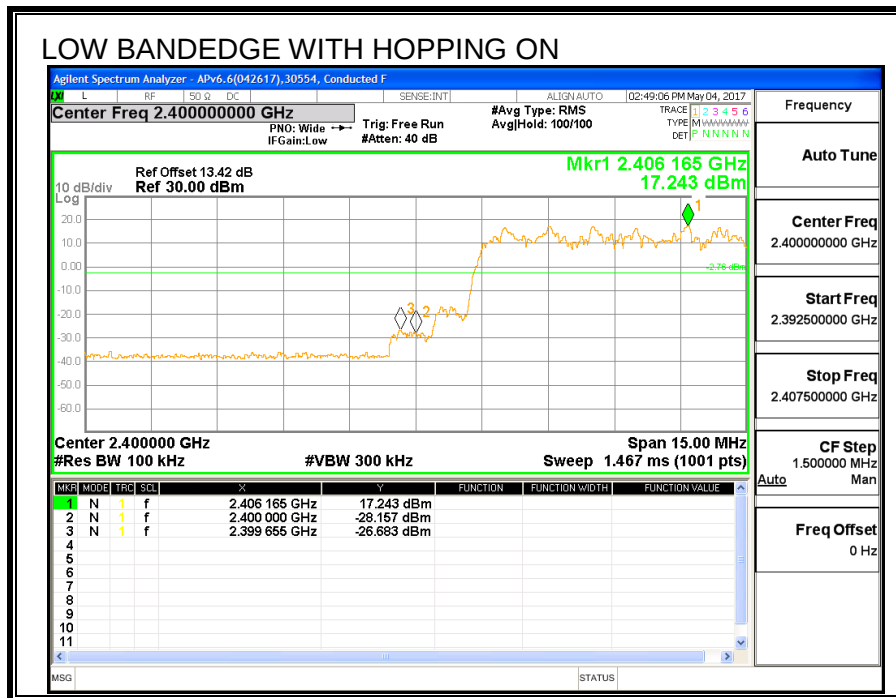
RESULTS

CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS









8.11. LAT 3, PLOW BASIC DATA RATE GFSK MODULATION

8.11.1. 20 dB AND 99% BANDWIDTH

LIMITS

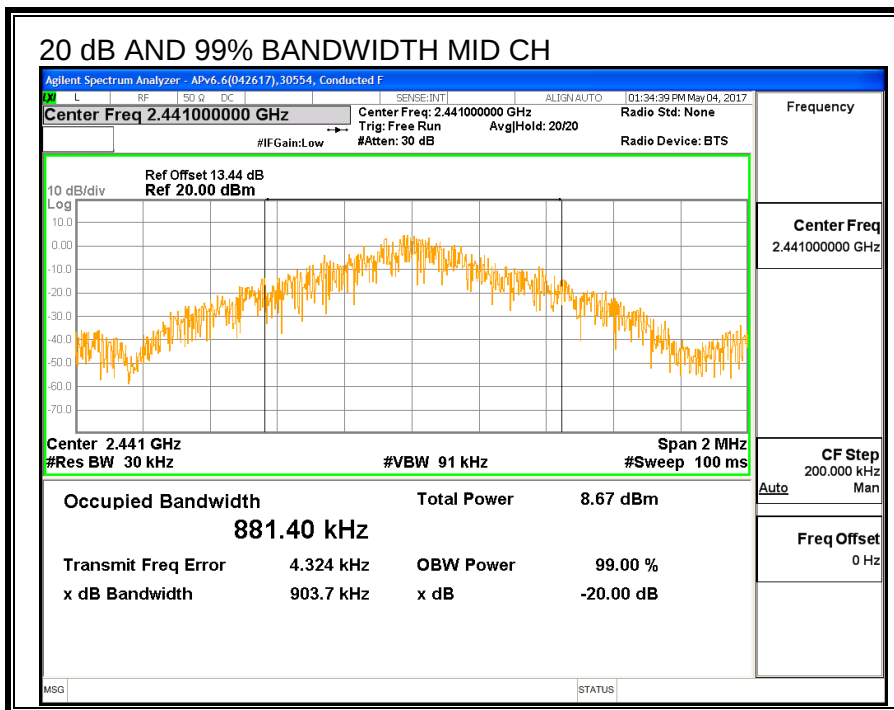
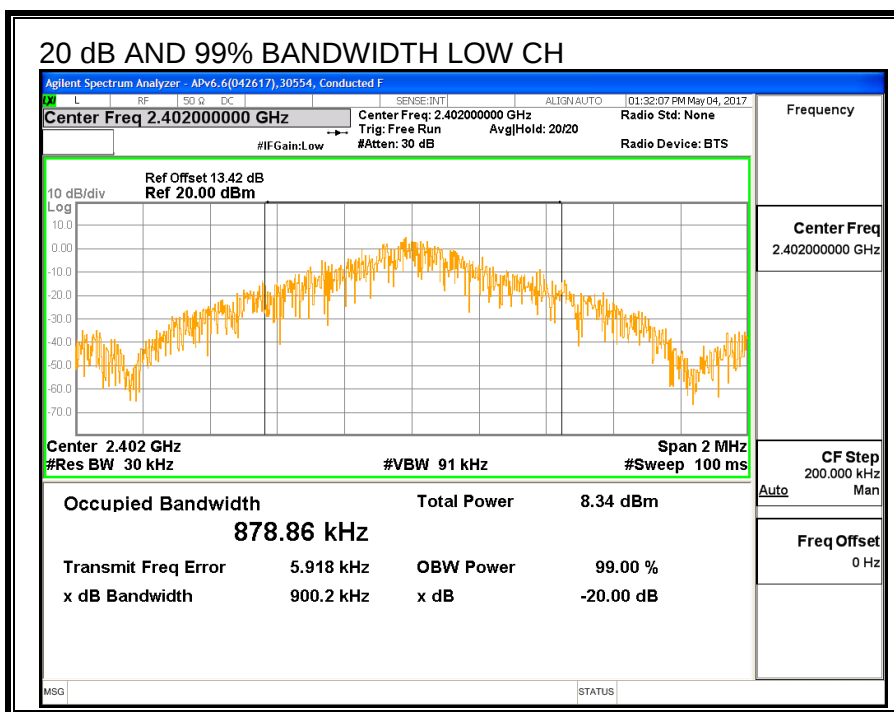
None; for reporting purposes only.

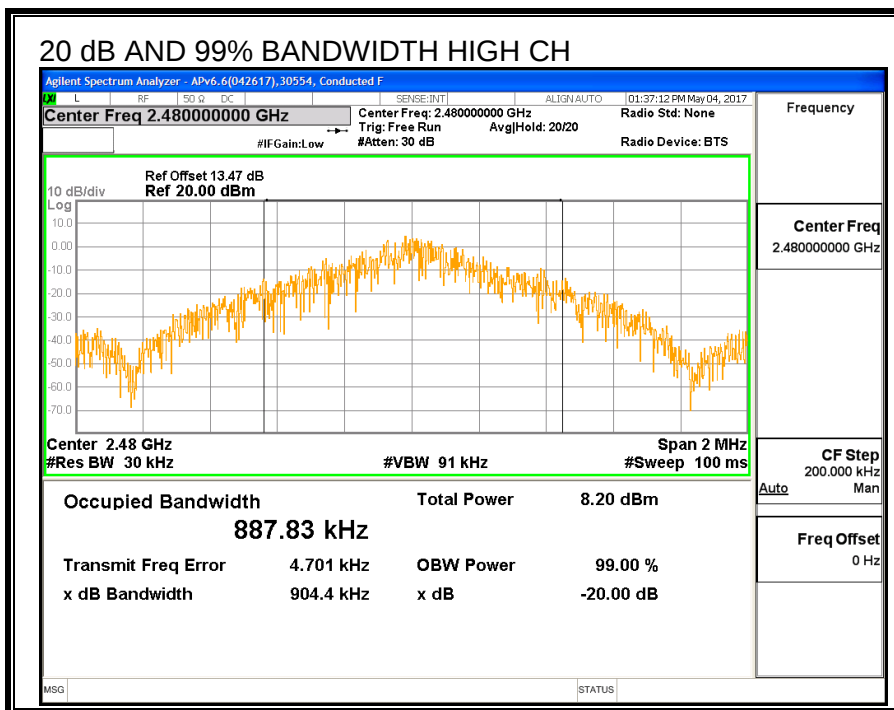
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to $\geq 1\%$ of the 20 dB bandwidth. The VBW is set to $\geq$ RBW. The sweep time is coupled.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (KHz)	20 dB Bandwidth (KHz)
Low	2402	878.86	900.2
Middle	2441	881.40	903.7
High	2480	887.83	904.4





8.11.2. HOPPING FREQUENCY SEPRATION

LIMITS

FCC §15.247 (a) (1)

IC RSS-247 (5.1) (b)

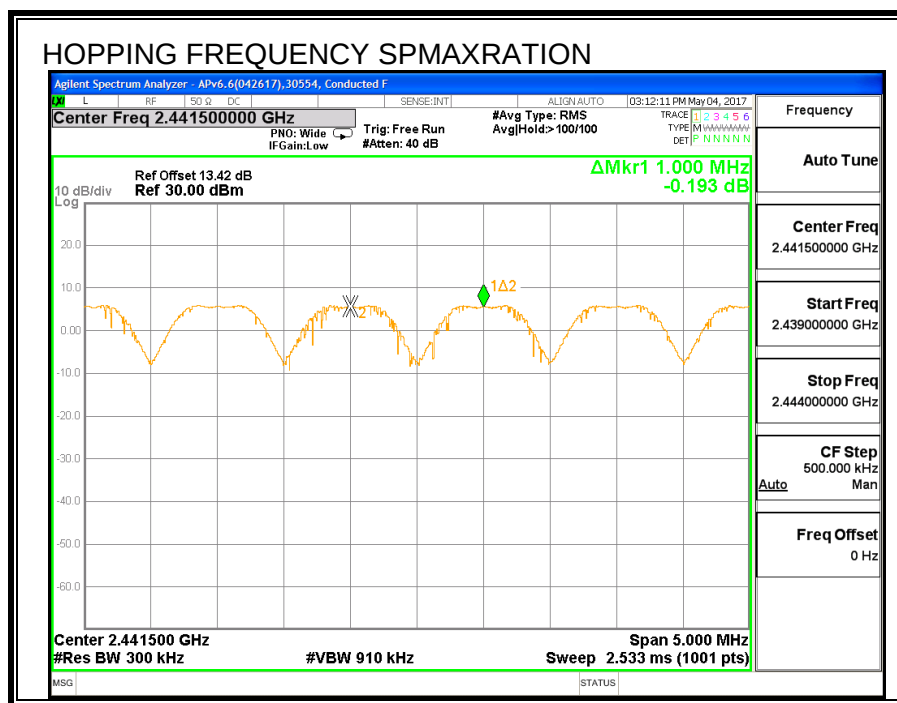
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to 300 kHz and the VBW is set to 910 kHz. The sweep time is coupled.

RESULTS



8.11.3. NUMBER OF HOPPING CHANNELS

LIMITS

FCC §15.247 (a) (1) (iii)

IC RSS-247 (5.1) (d)

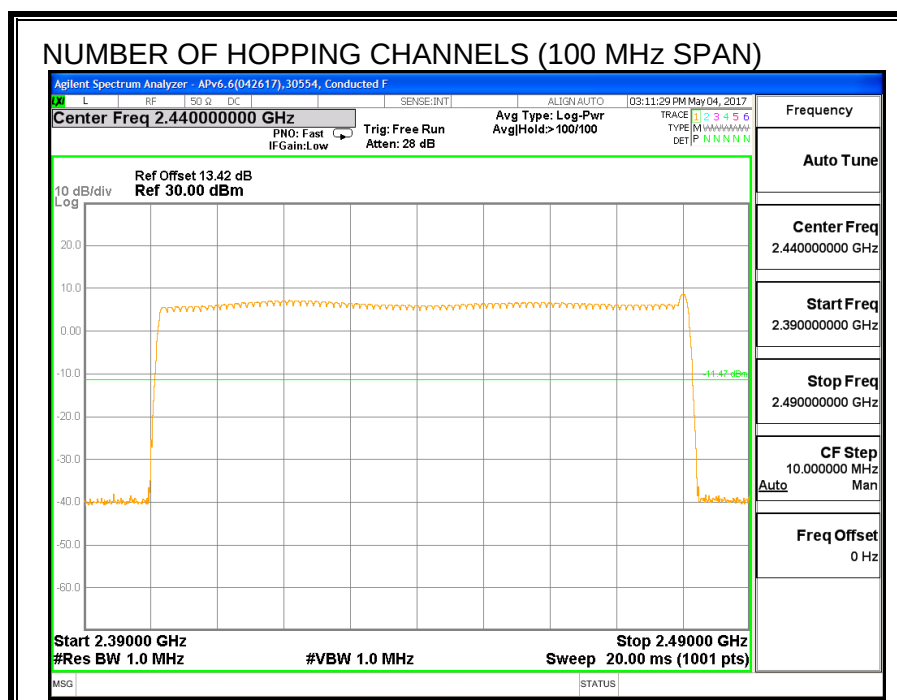
Frequency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 non-overlapping channels.

TEST PROCEDURE

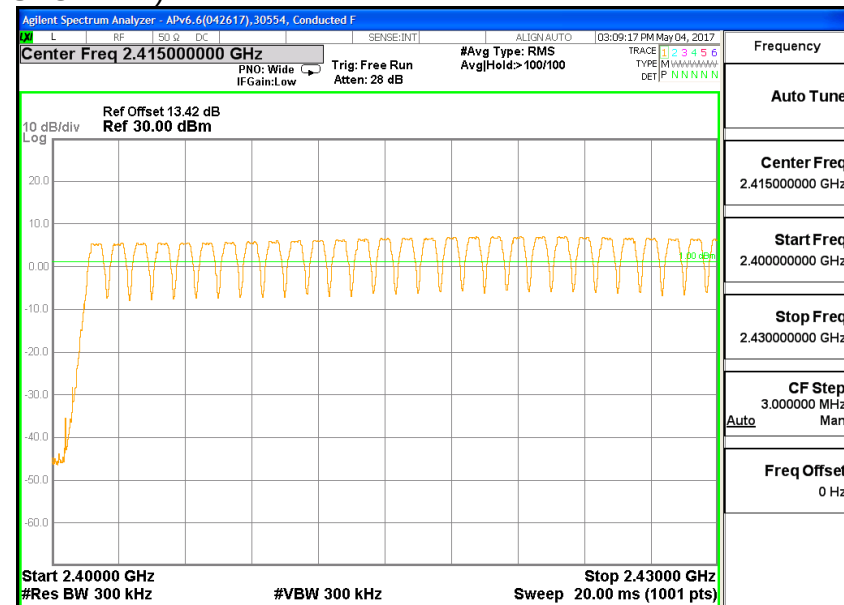
The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

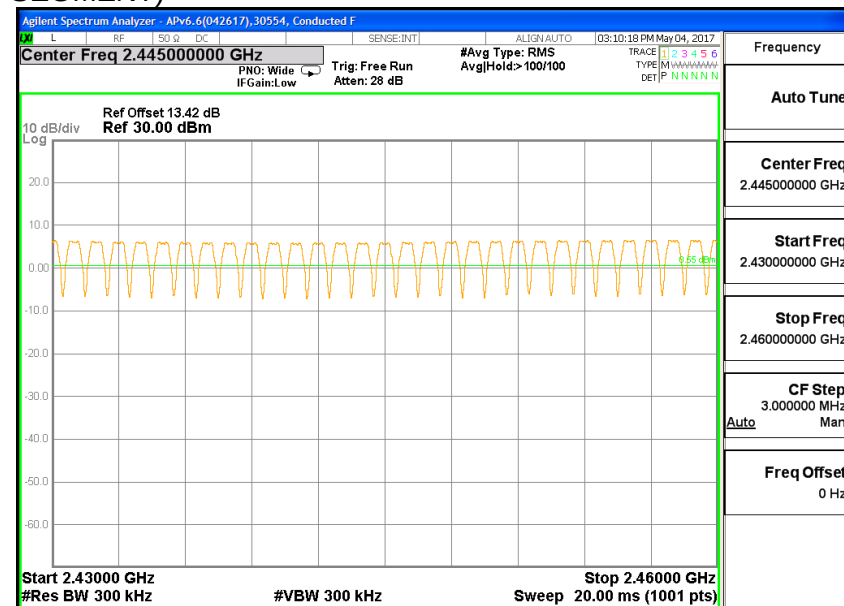
Normal Mode: 79 Channels observed.

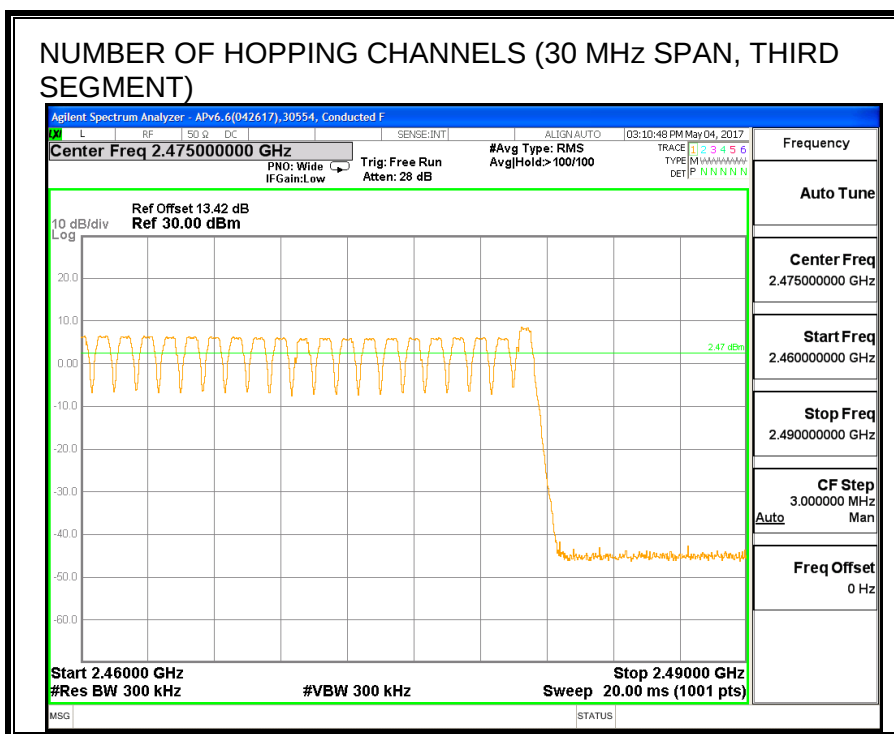


NUMBER OF HOPPING CHANNELS (30 MHz SPAN, FIRST SEGMENT)



NUMBER OF HOPPING CHANNELS (30 MHz SPAN, SECOND SEGMENT)





8.11.4. AVERAGE TIME OF OCCUPANCY

LIMITS

FCC §15.247 (a) (1) (iii)

IC RSS-247 (5.1) (d)

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

TEST PROCEDURE

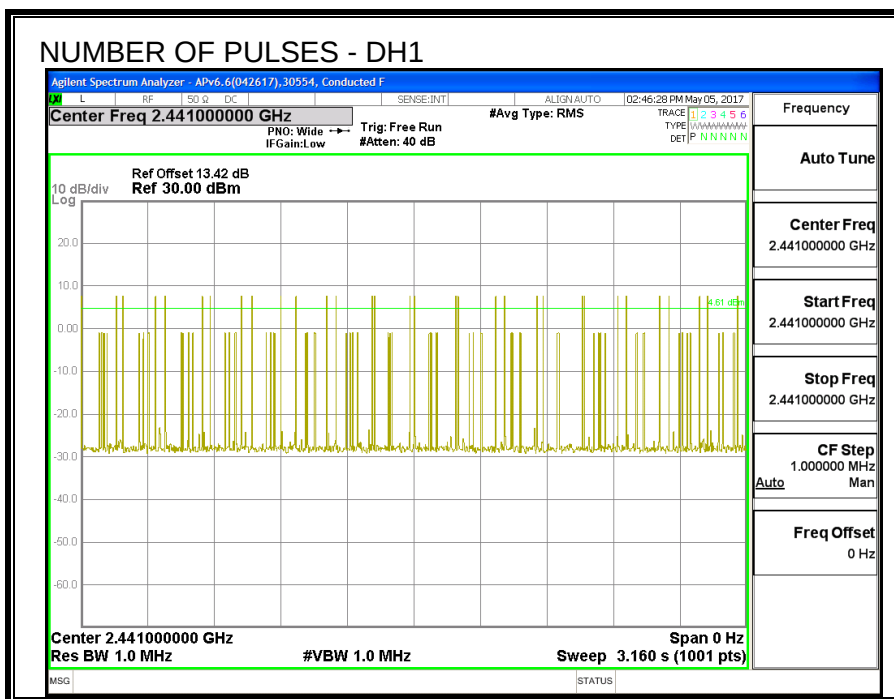
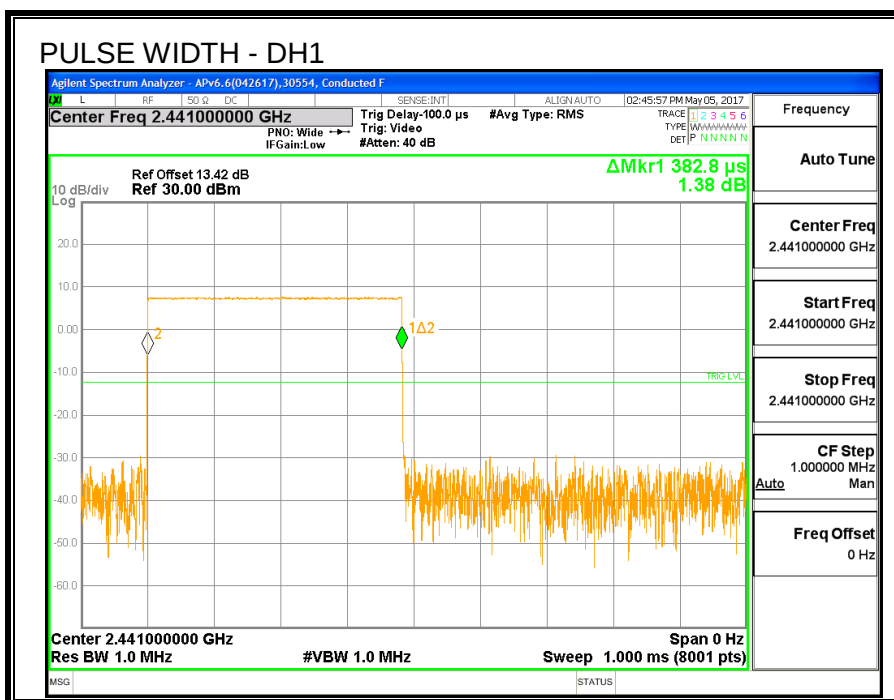
The transmitter output is connected to a spectrum analyzer. The span is set to 0 Hz, centered on a single, selected hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured in a 3.16 second scan, to enable resolution of each occurrence.

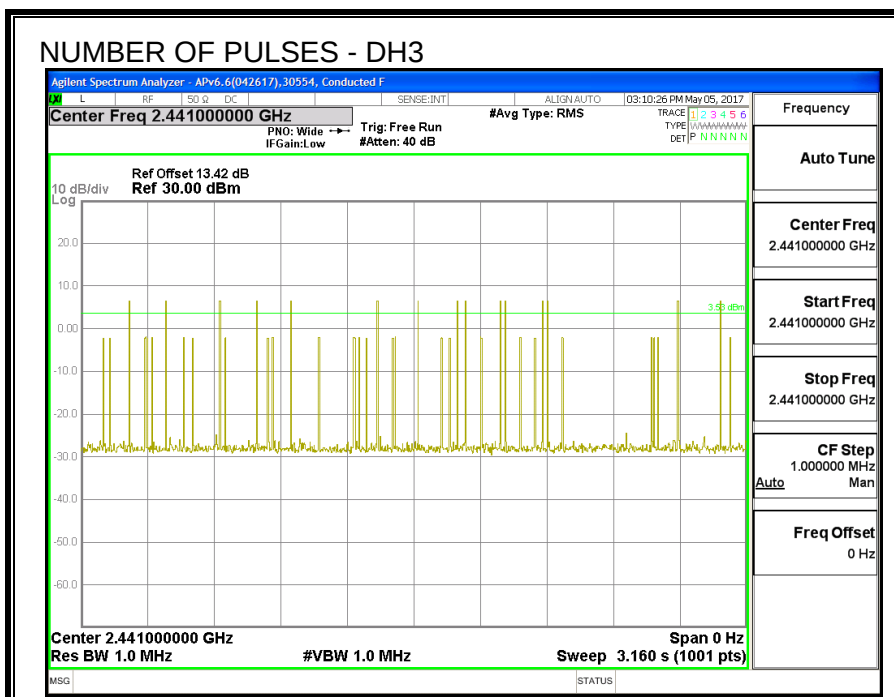
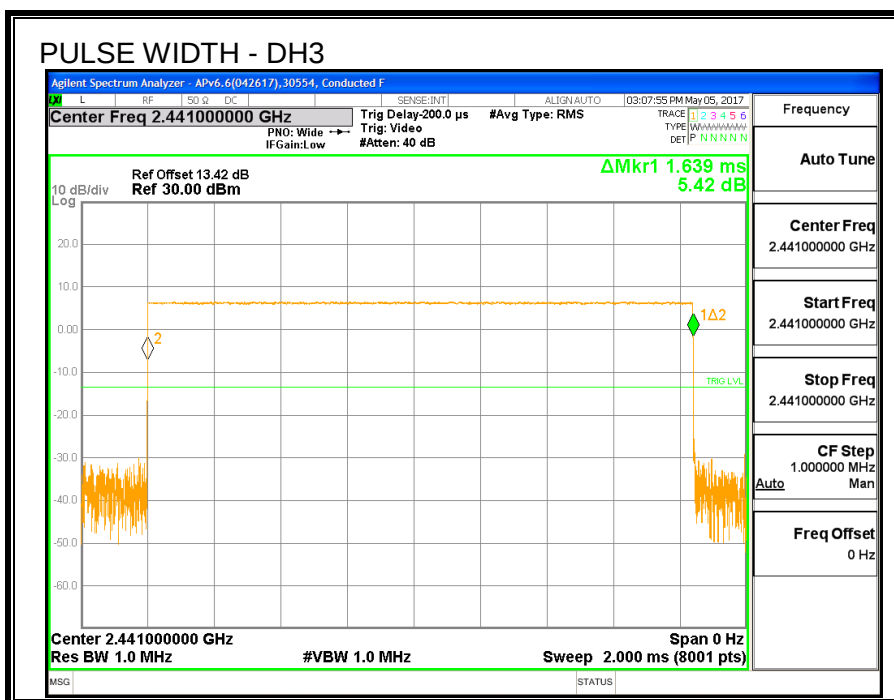
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{pulse width}$.

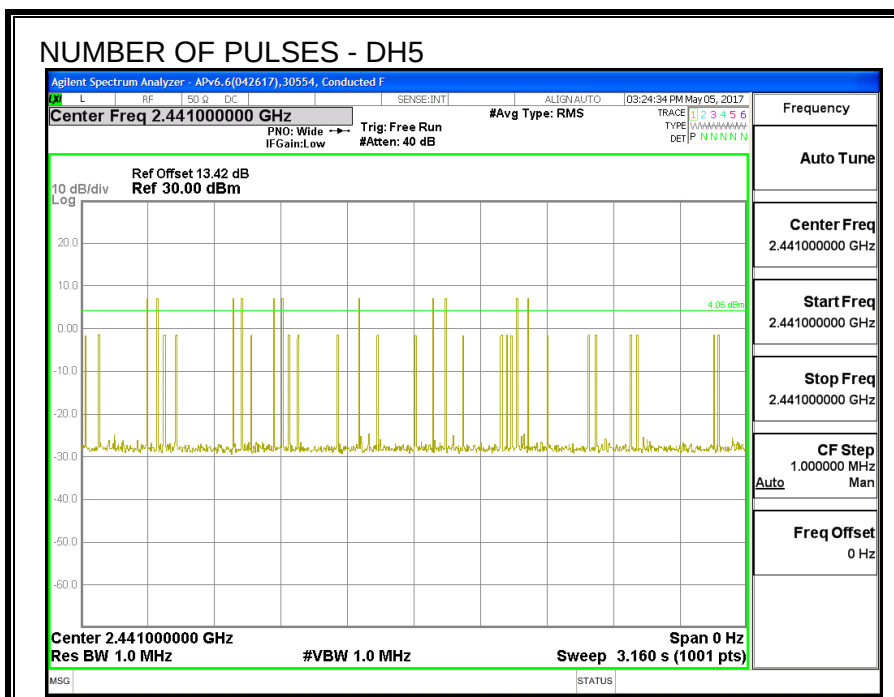
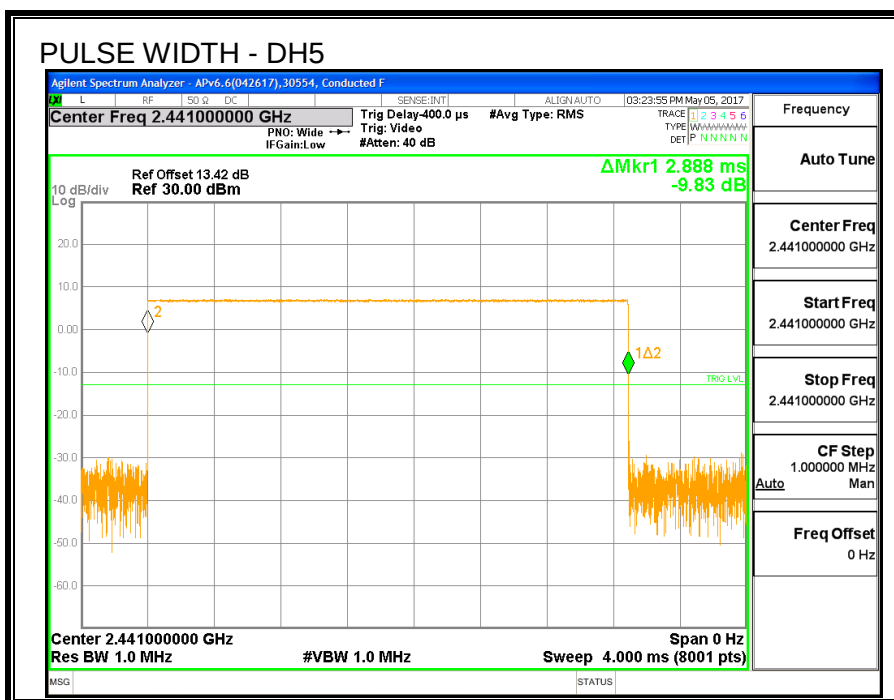
For AFH mode, the average time of occupancy in the specified 8 second period (20 channels * 0.4 seconds) is equal to $10 * (\# \text{ of pulses in } 0.8 \text{ s}) * \text{pulse width}$.

RESULTS

DH Packet	Pulse Width (msec)	Number of Pulses in 3.16 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
GFSK Normal Mode					
DH1	0.3828	30	0.115	0.4	-0.285
DH3	1.639	15	0.246	0.4	-0.154
DH5	2.888	11	0.318	0.4	-0.082
DH Packet	Pulse Width (msec)	Number of Pulses in 0.8 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
GFSK AFH Mode					
DH1	0.3828	7.5	0.029	0.4	-0.371
DH3	1.639	3.75	0.061	0.4	-0.339
DH5	2.888	2.75	0.079	0.4	-0.321







8.11.5. OUTPUT POWER

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LIMITS

§15.247 (b) (1)

RSS-247 (5.4) (b)

The maximum antenna gain is less than 6 dBi, therefore the limit is 30 dBm.

TEST PROCEDURE

The transmitter output is connected to a wideband peak and average power meter.

RESULTS

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	10.13	30	-19.87
Middle	2441	10.23	30	-19.77
High	2480	10.13	30	-19.87

8.11.6. AVERAGE POWER

ID:	30554	Date:	7/13/17
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LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	9.87
Middle	2441	9.92
High	2480	9.84

8.11.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-247 (5.5)

Limit = -20 dBc

TEST PROCEDURE

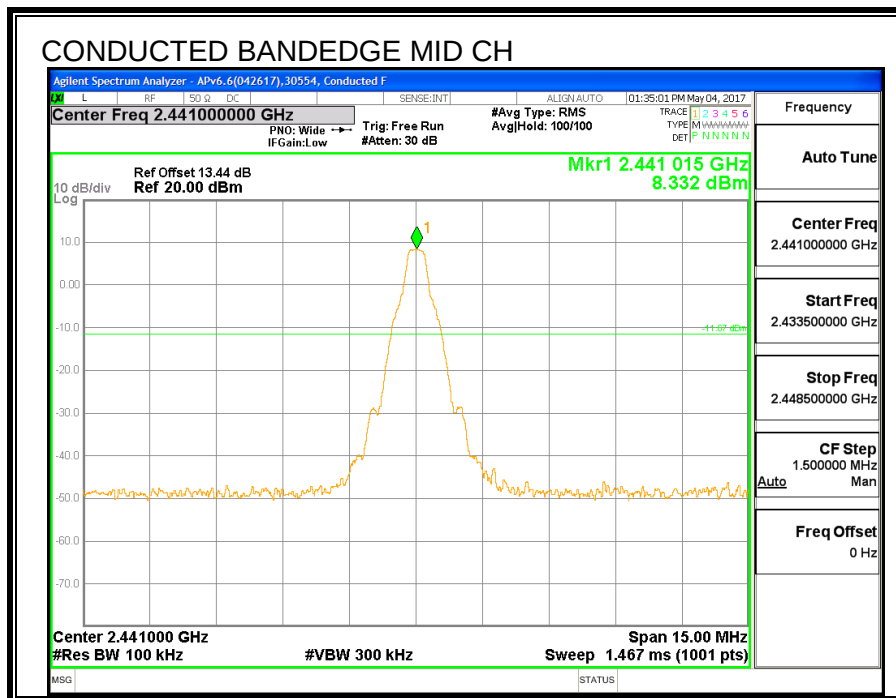
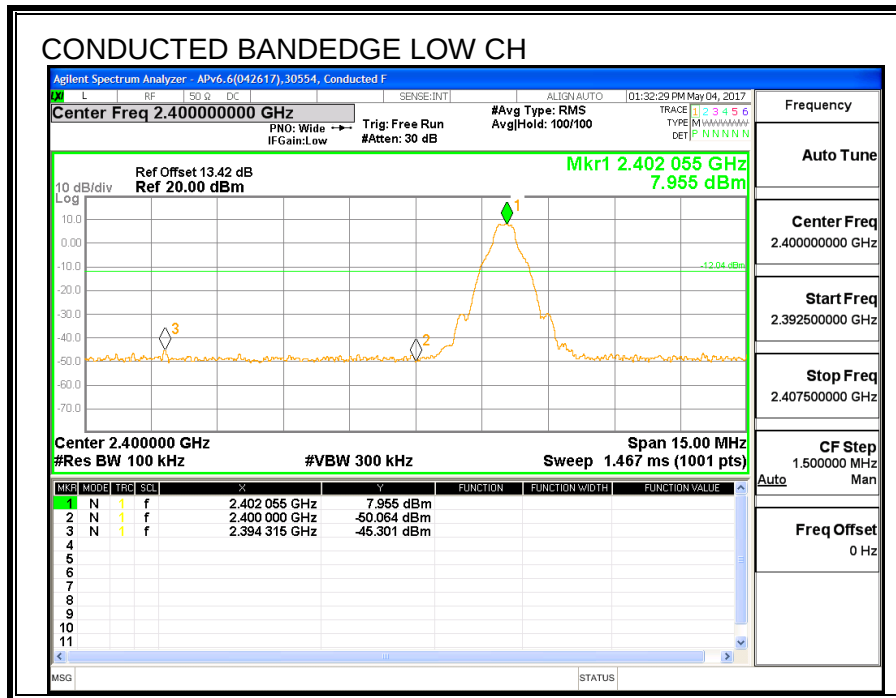
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

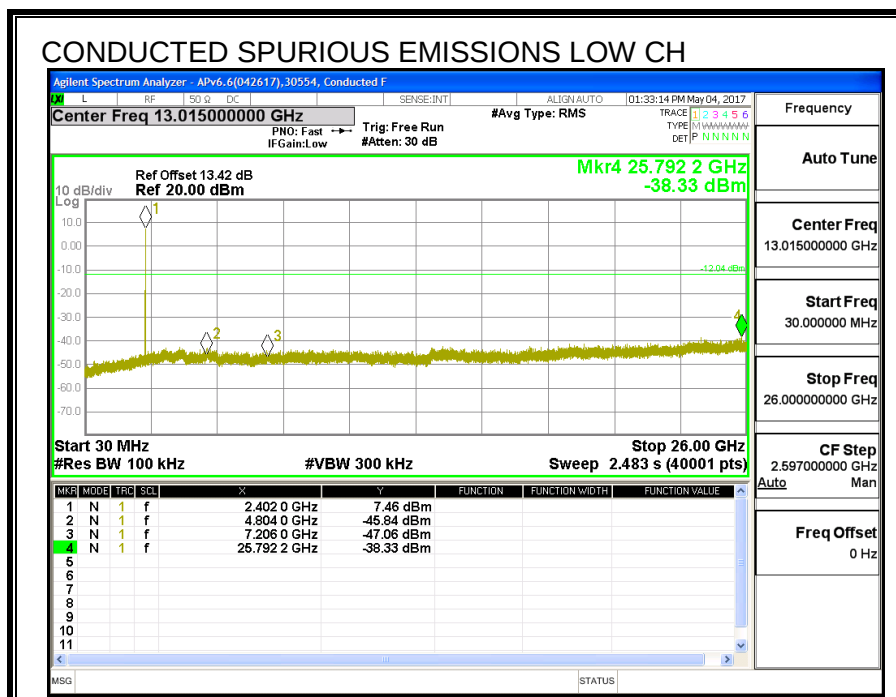
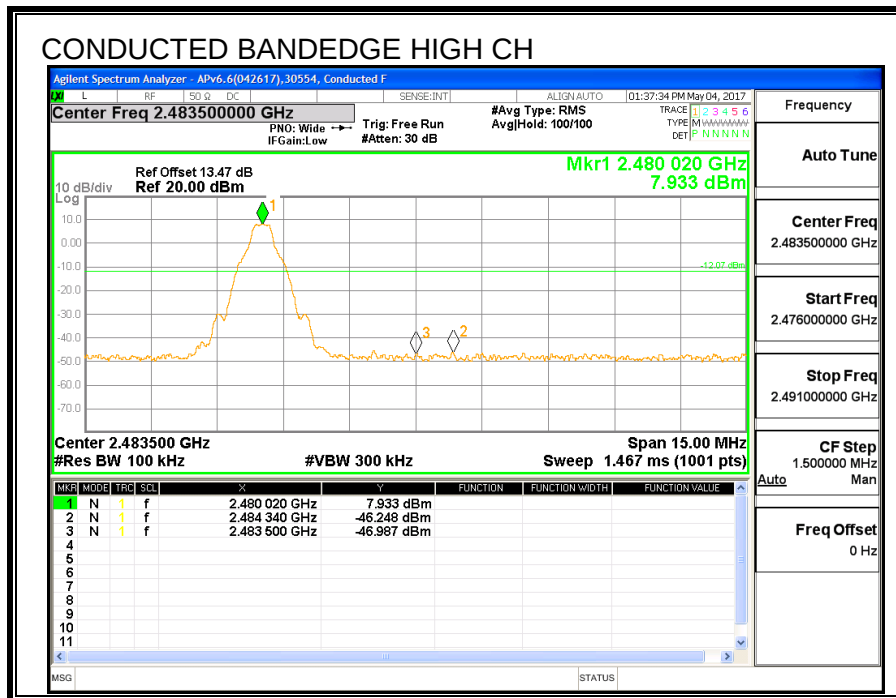
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

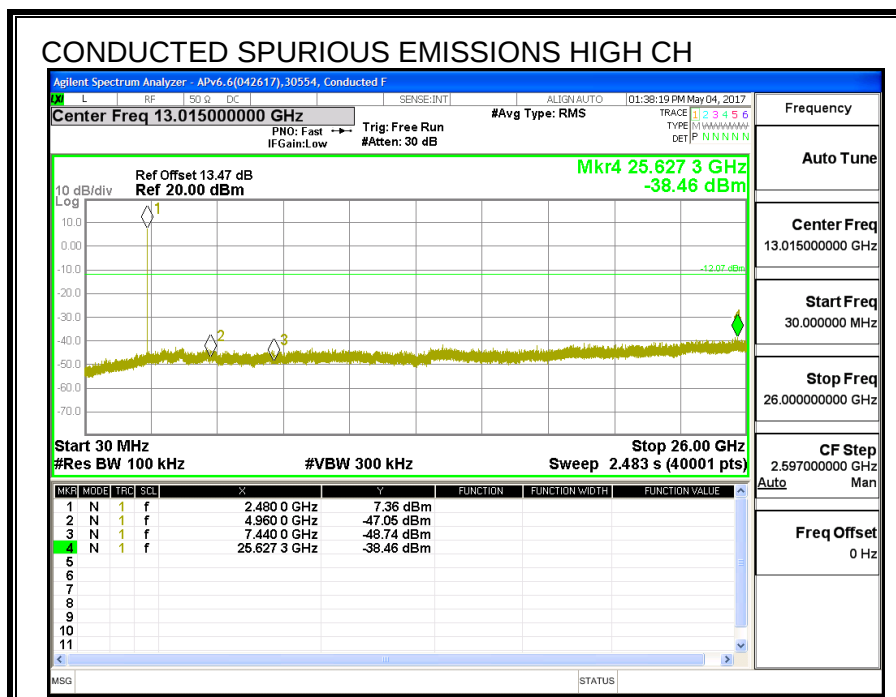
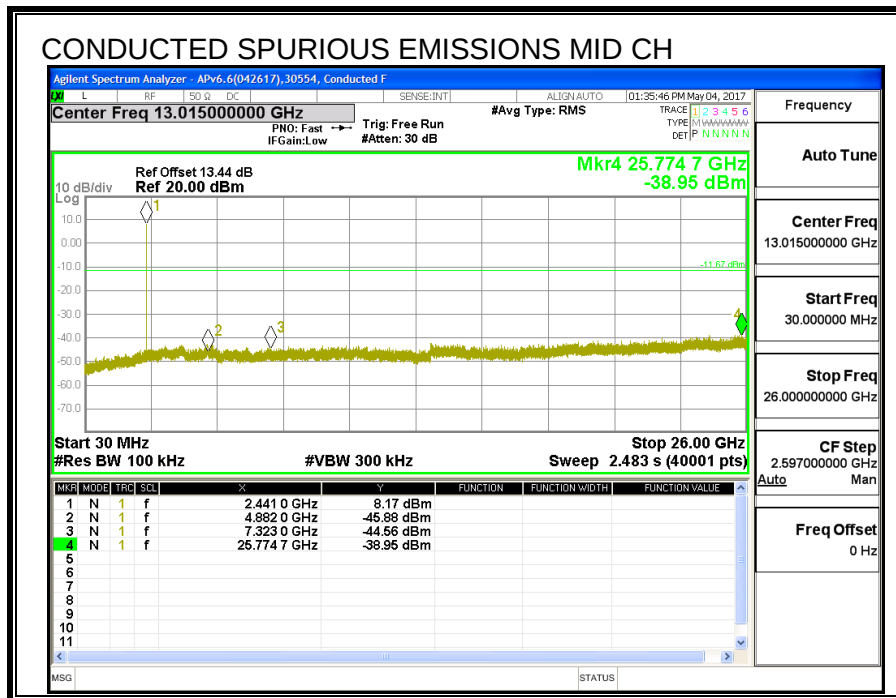
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

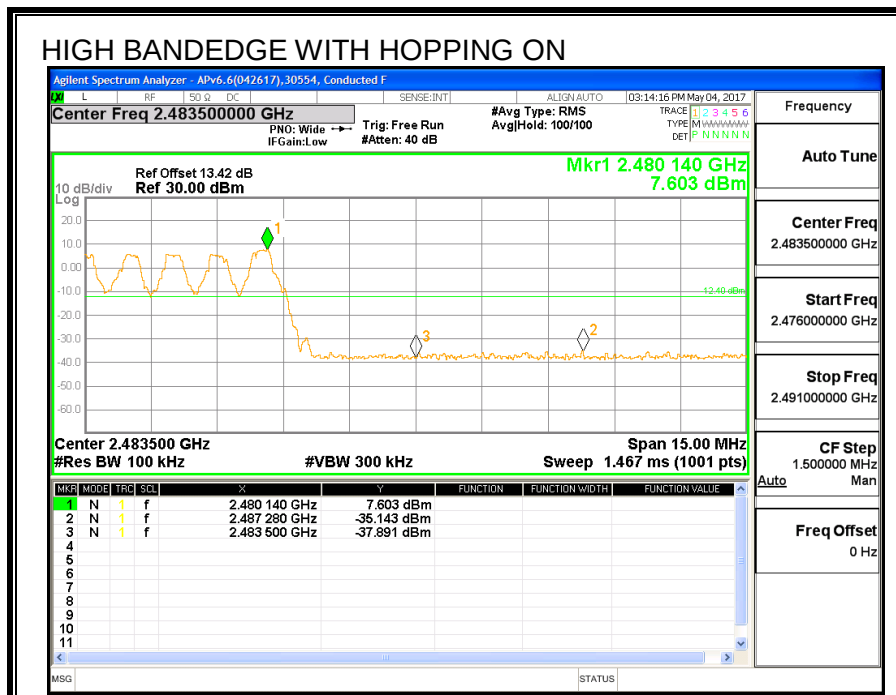
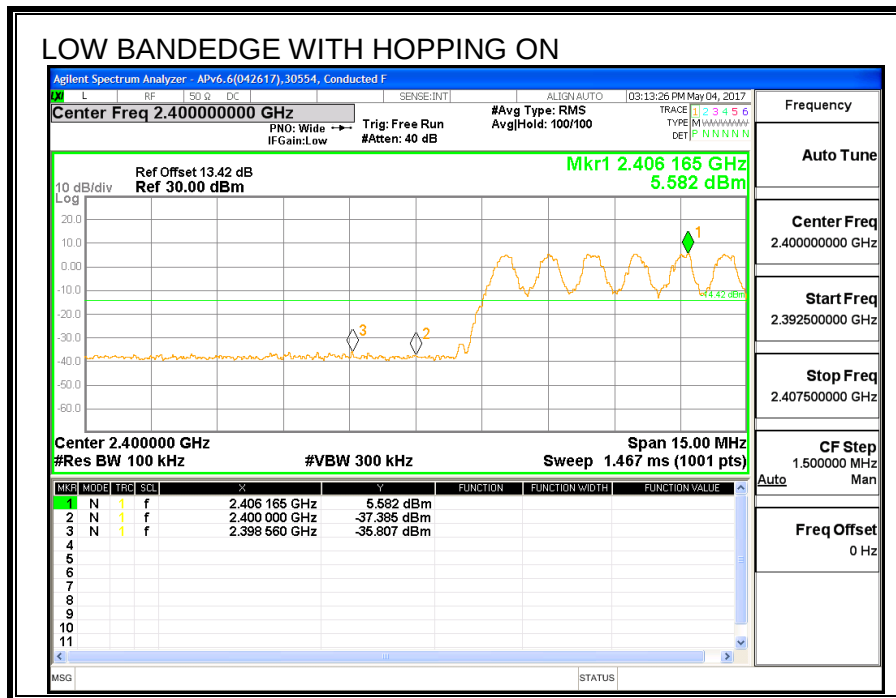
RESULTS

CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS









8.12. LAT 3, PLOW ENHANCED DATA RATE DQPSK MODULATION

8.12.1. OUTPUT POWER

ID:	30554	Date:	7/13/17
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LIMITS

§15.247 (b) (1)

RSS-247 (5.4) (b)

The maximum antenna gain is less than 6 dBi, therefore the limit is 30 dBm.

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

TEST PROCEDURE

The transmitter output is connected to a wideband peak and average power meter.

RESULTS

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	10.15	21	-10.85
Middle	2441	10.25	21	-10.75
High	2480	10.22	21	-10.78

8.12.2. AVERAGE POWER

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LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	7.84
Middle	2441	7.87
High	2480	7.81

8.13. LAT 3, PLOW ENHANCED DATA RATE 8PSK MODULATION

8.13.1. 20 dB AND 99% BANDWIDTH

LIMITS

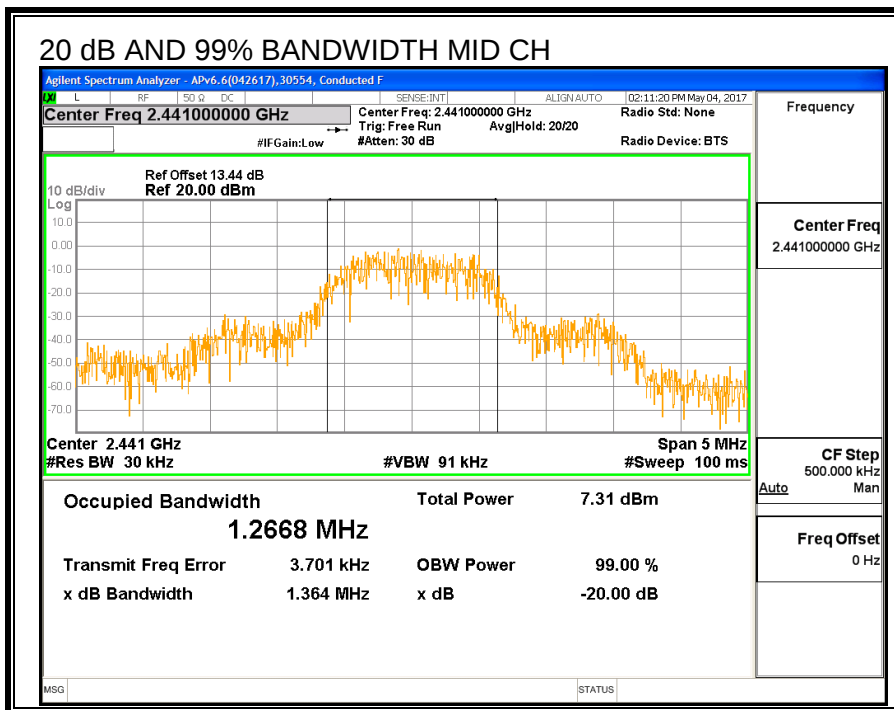
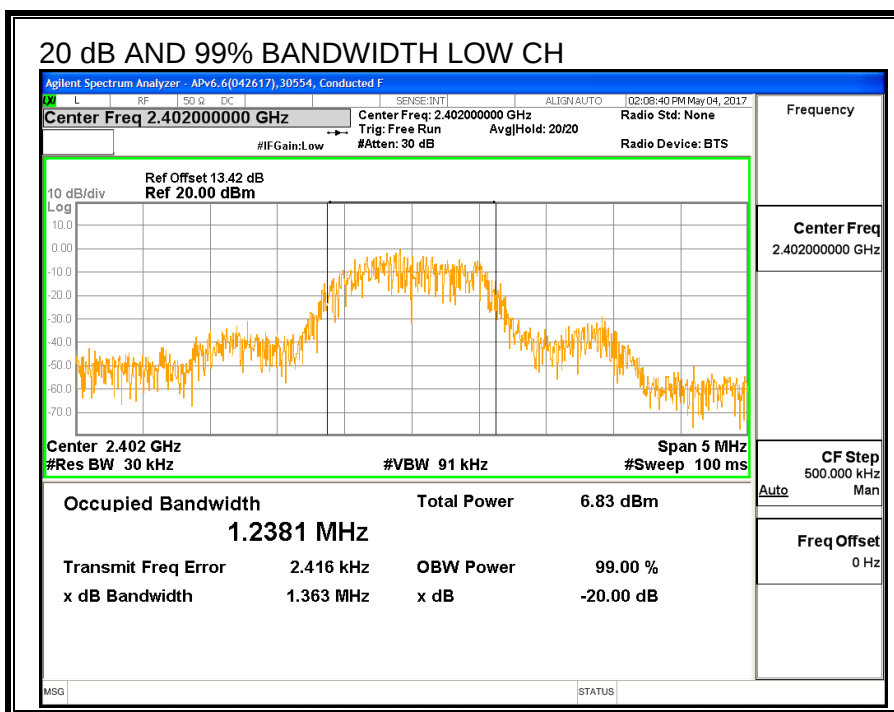
None; for reporting purposes only.

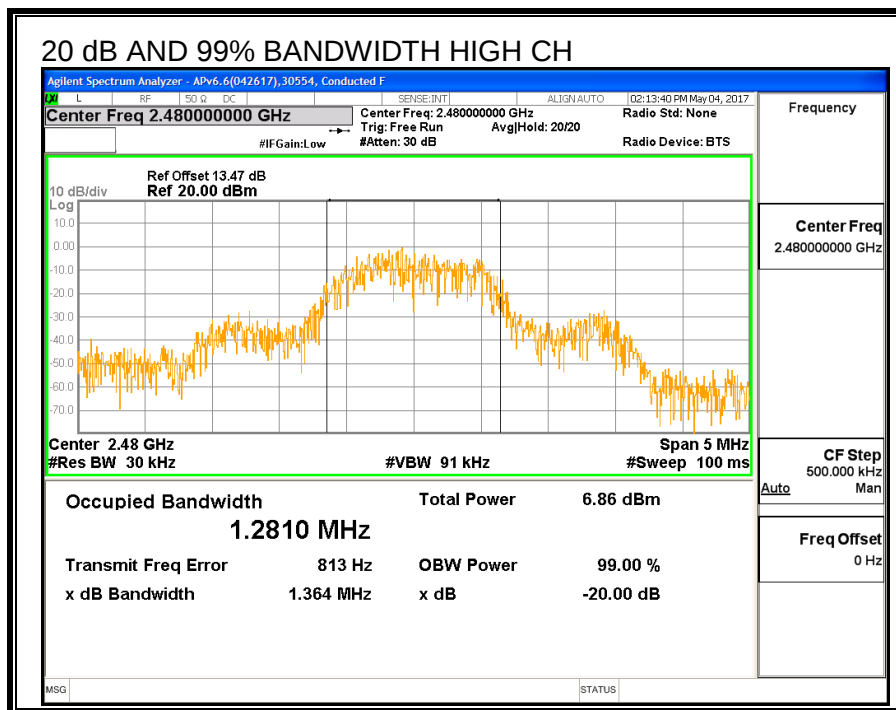
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to $\geq 1\%$ of the 20 dB bandwidth. The VBW is set to $\geq$ RBW. The sweep time is coupled.

RESULTS

Channel	Frequency (MHz)	99 % Bandwidth (MHz)	20 dB Bandwidth (MHz)
Low	2402	1.2381	1.363
Middle	2441	1.2668	1.364
High	2480	1.2810	1.364





8.13.2. HOPPING FREQUENCY SEPARATION

LIMITS

FCC §15.247 (a) (1)

IC RSS-247 (5.1) (b)

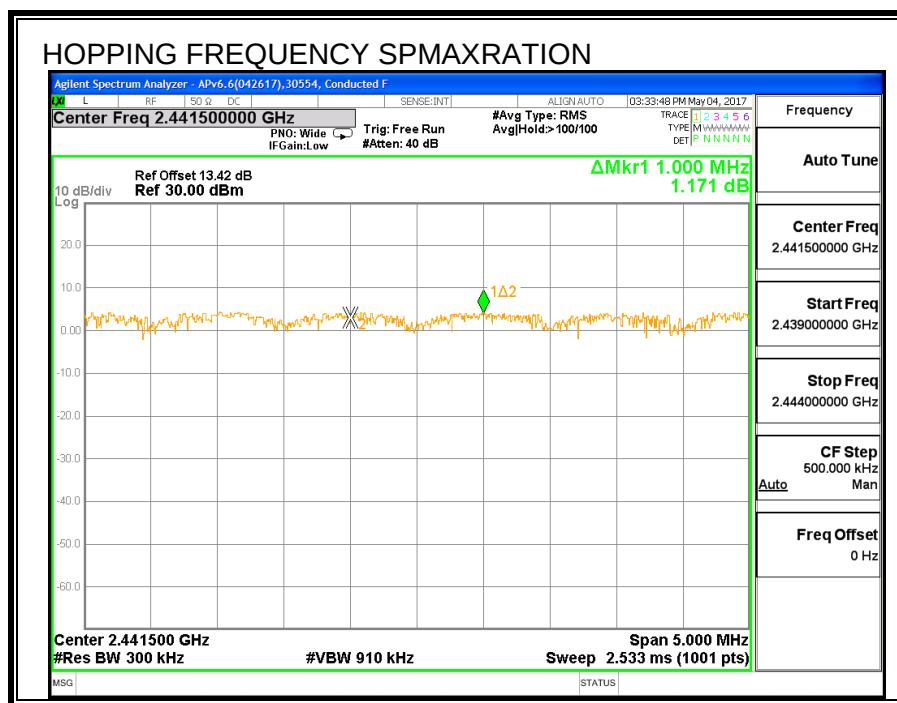
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to 300 kHz and the VBW is set to 910 kHz. The sweep time is coupled.

RESULTS



8.13.3. NUMBER OF HOPPING CHANNELS

LIMITS

FCC §15.247 (a) (1) (iii)

IC RSS-247 (5.1) (d)

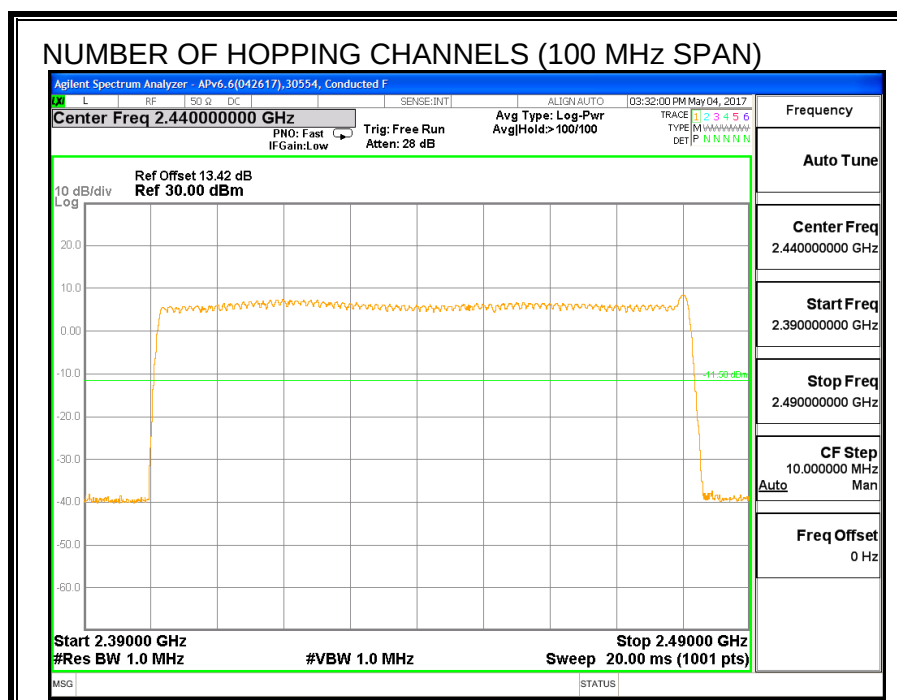
Frequency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 non-overlapping channels.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

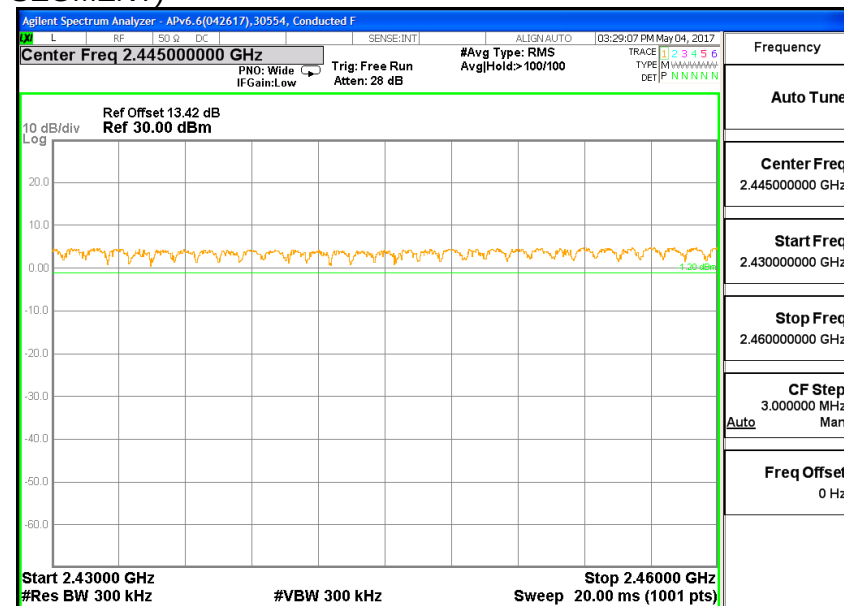
Normal Mode: 79 Channels observed.

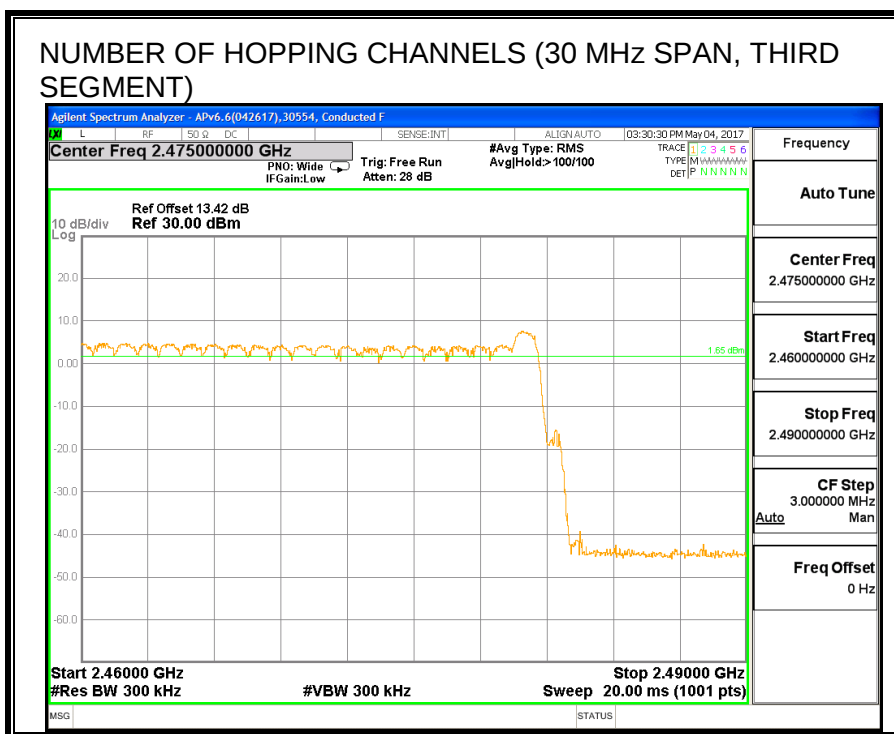


NUMBER OF HOPPING CHANNELS (30 MHz SPAN, FIRST SEGMENT)



NUMBER OF HOPPING CHANNELS (30 MHz SPAN, SECOND SEGMENT)





8.13.4. AVERAGE TIME OF OCCUPANCY

LIMITS

FCC §15.247 (a) (1) (iii)

IC RSS-247 (5.1) (d)

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

TEST PROCEDURE

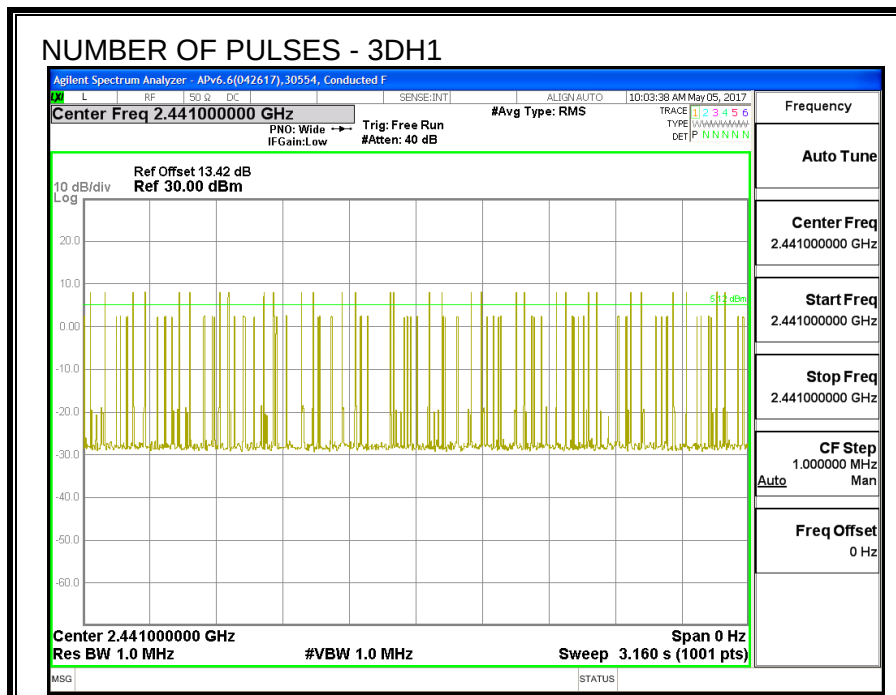
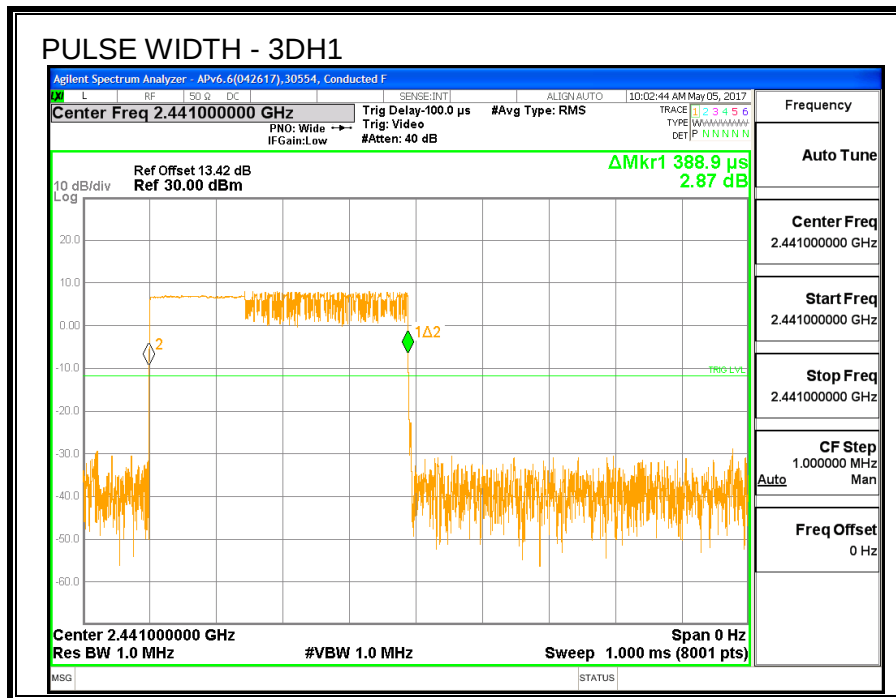
The transmitter output is connected to a spectrum analyzer. The span is set to 0 Hz, centered on a single, selected hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured in a 3.16 second scan, to enable resolution of each occurrence.

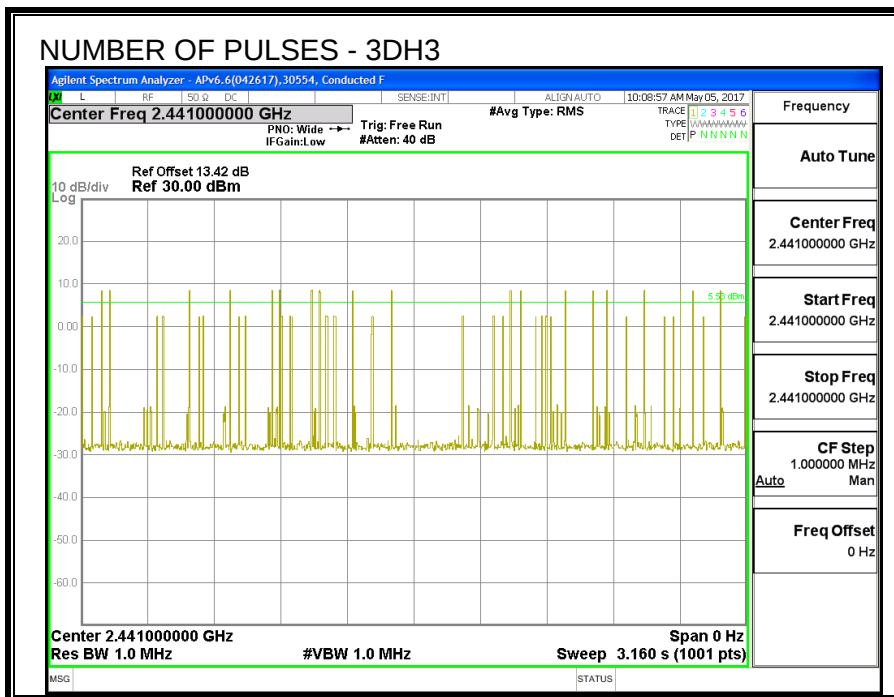
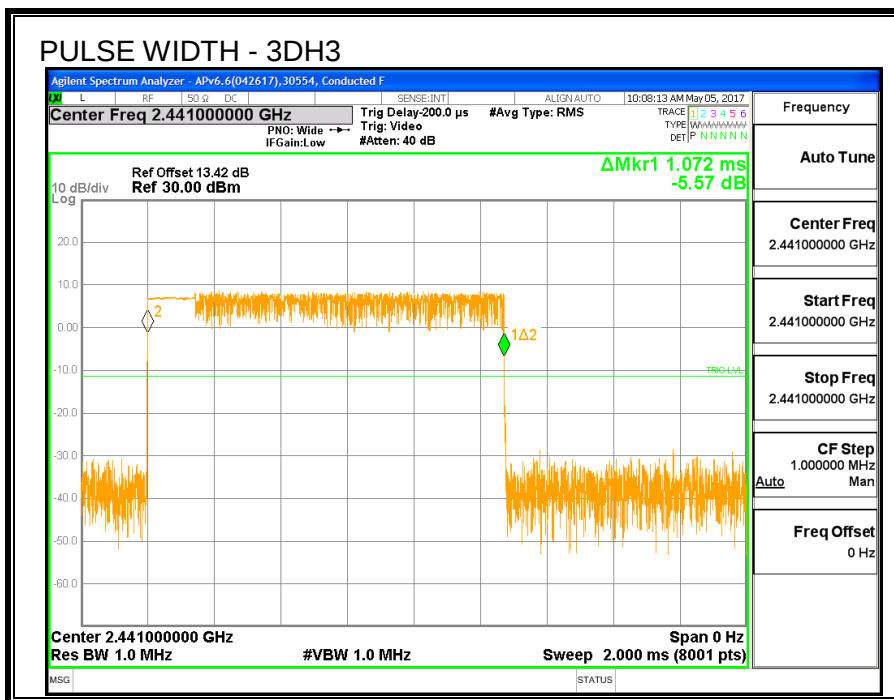
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{pulse width}$.

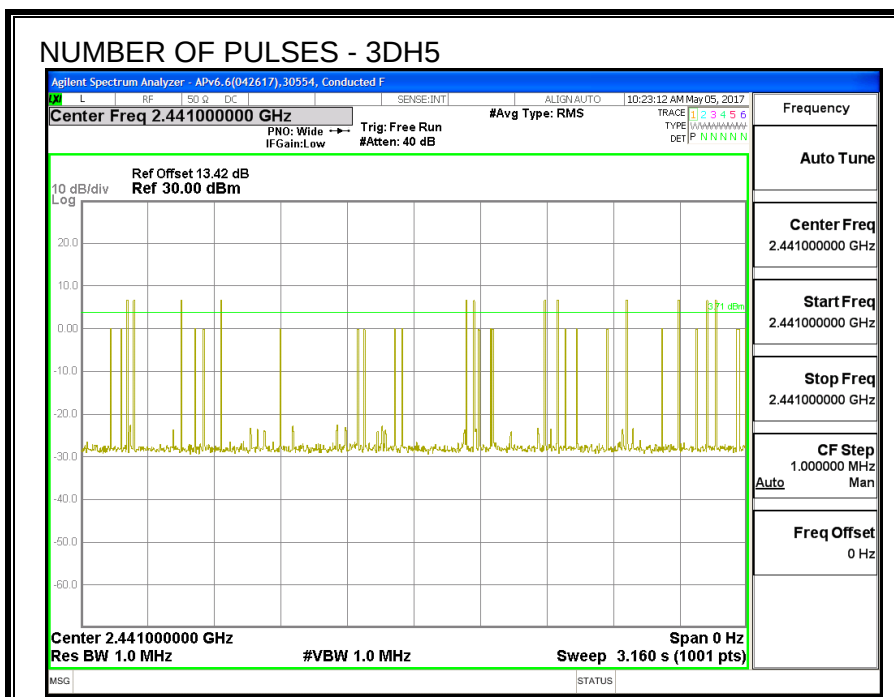
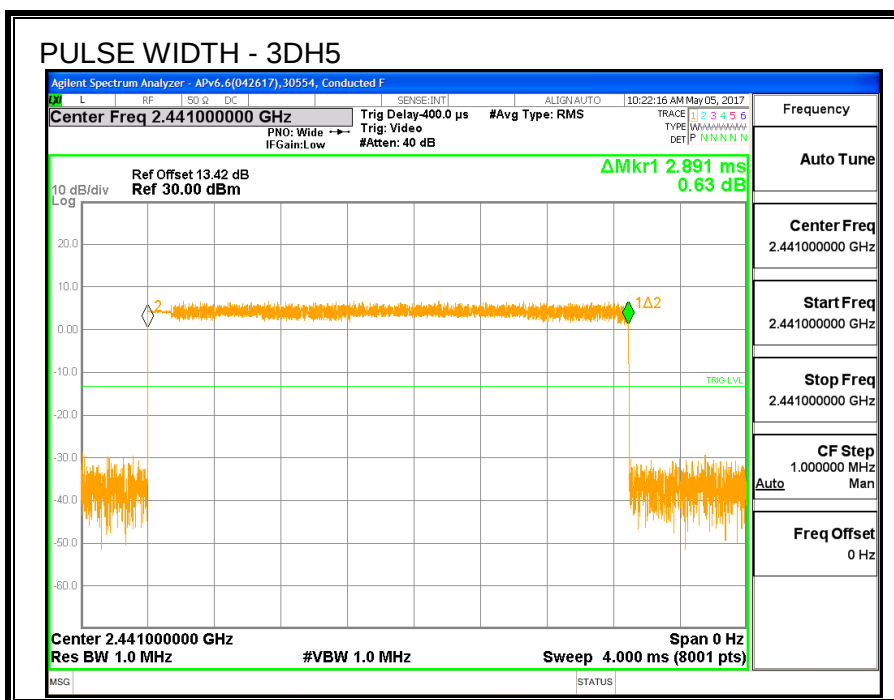
For AFH mode, the average time of occupancy in the specified 8 second period (20 channels * 0.4 seconds) is equal to $10 * (\# \text{ of pulses in } 0.8 \text{ s}) * \text{pulse width}$.

RESULTS

DH Packet	Pulse Width (msec)	Number of Pulses in 3.16 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
8PSK (EDR) Mode					
3DH1	0.3889	32	0.124	0.4	-0.276
3DH3	1.072	18	0.193	0.4	-0.207
3DH5	2.891	12	0.347	0.4	-0.053







8.13.5. OUTPUT POWER

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LIMITS

§15.247 (b) (1)

RSS-247 (5.4) (b)

The maximum antenna gain is less than 6 dBi, therefore the limit is 30 dBm.

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

TEST PROCEDURE

The transmitter output is connected to a wideband peak and average power meter.

RESULTS

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	10.33	21	-11.03
Middle	2441	10.45	21	-10.95
High	2480	10.39	21	-11.06

8.13.6. AVERAGE POWER

ID:	30554	Date:	7/13/17
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LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	7.89
Middle	2441	7.95
High	2480	7.88

8.13.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-247 (5.5)

Limit = -20 dBc

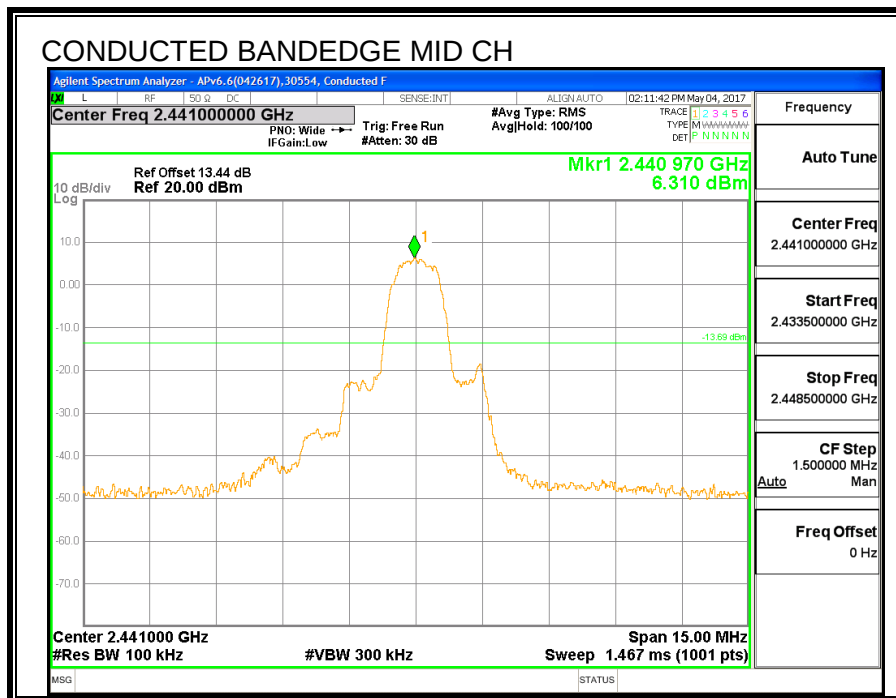
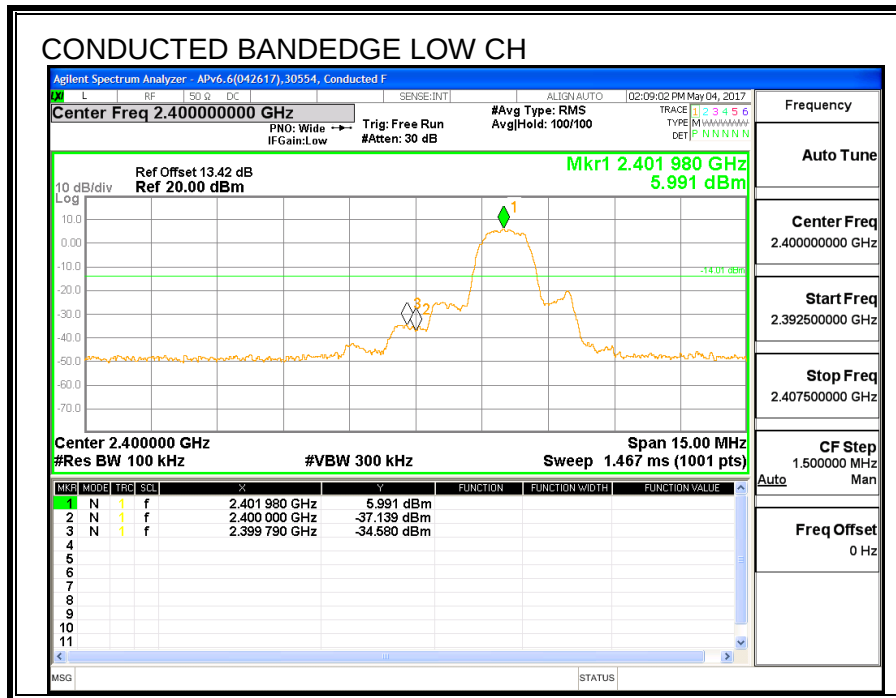
TEST PROCEDURE

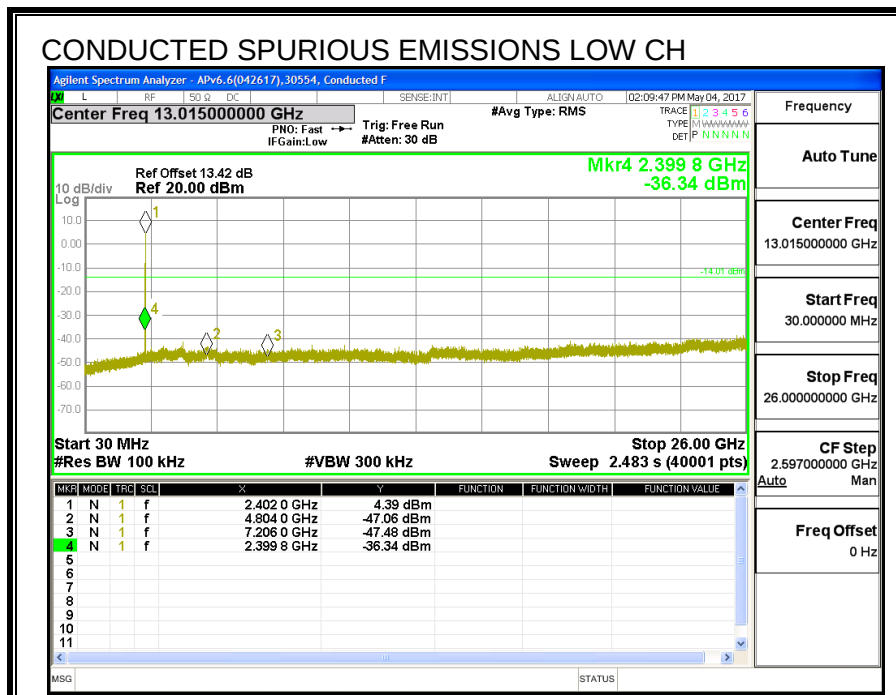
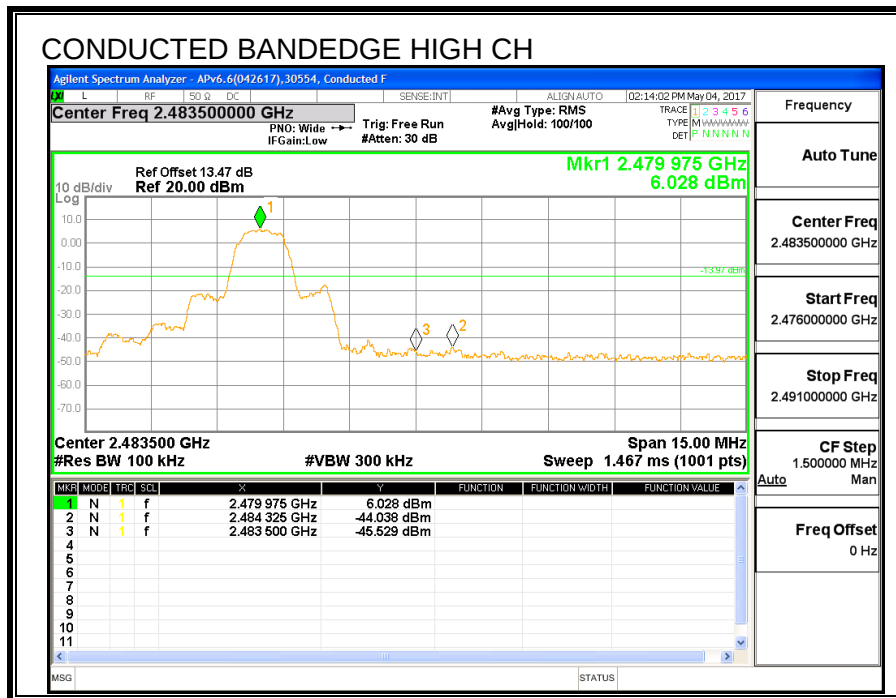
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

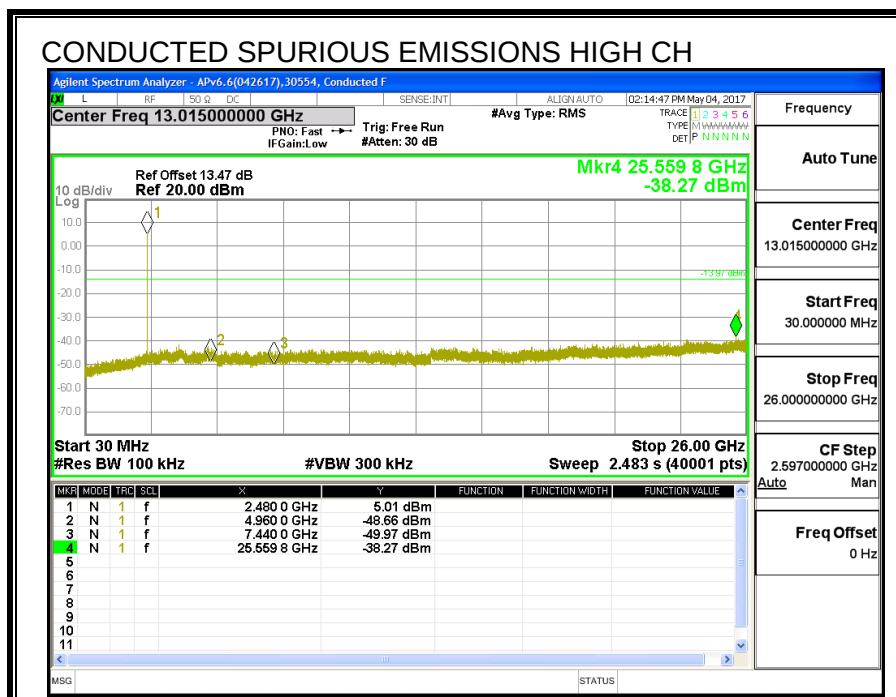
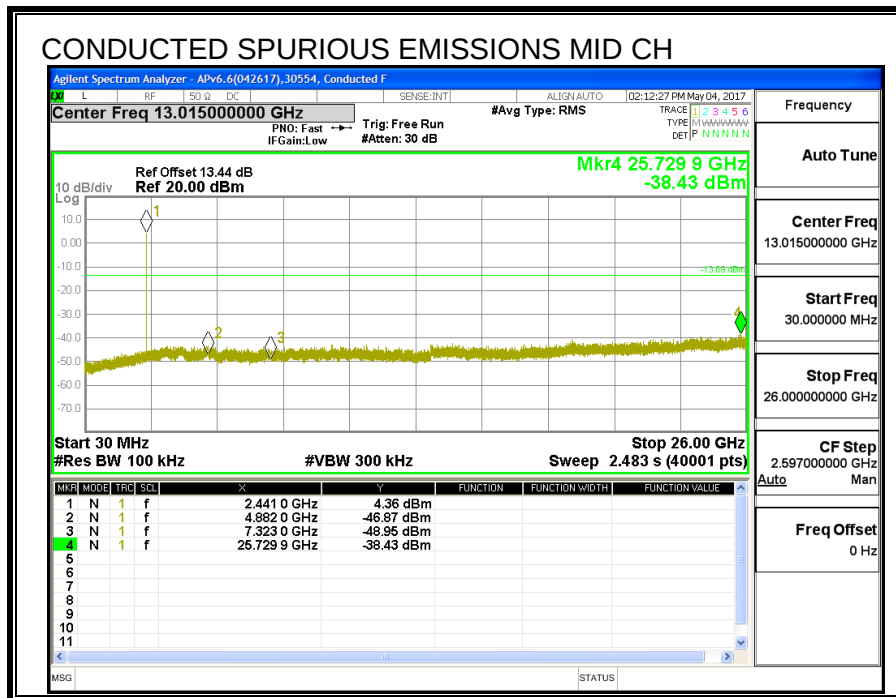
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

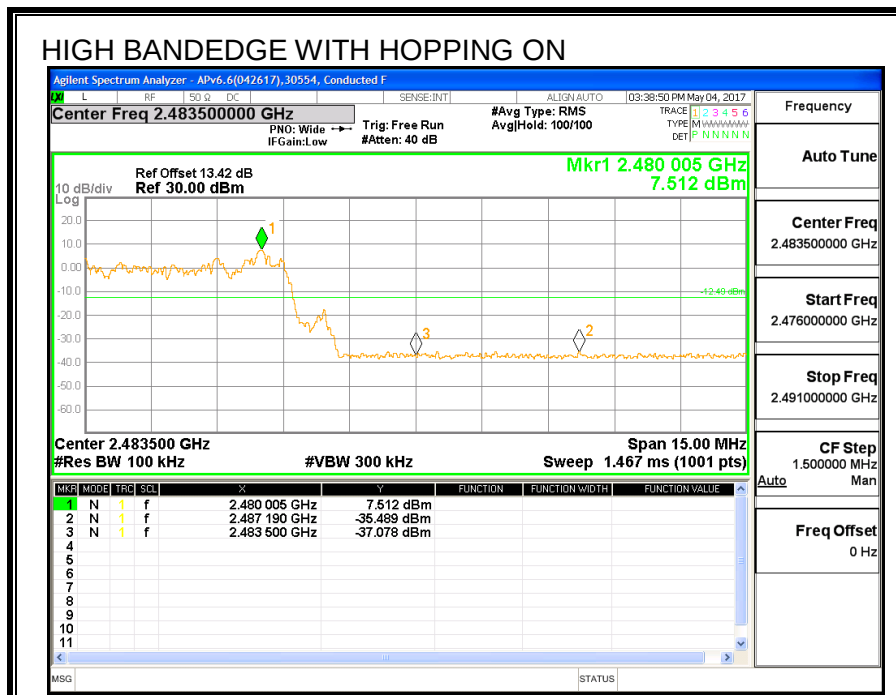
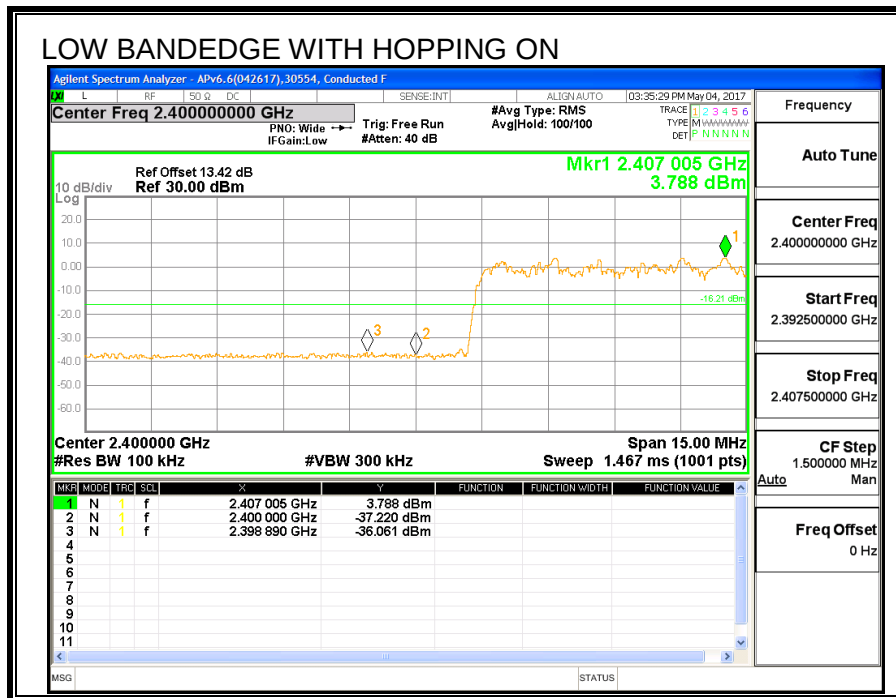
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS









9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.8.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
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.

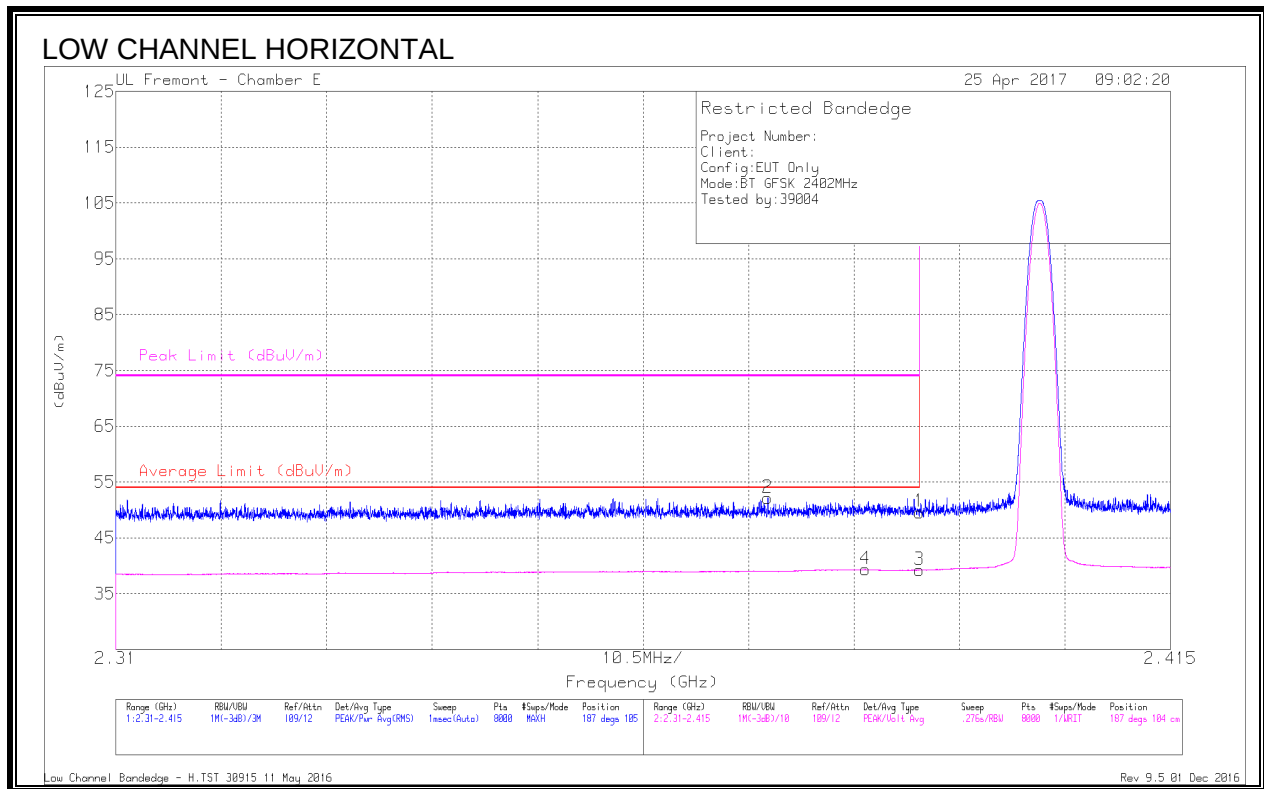
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak→ this is a note from Radiated automation software. When the frequency is below 1G, software is using RB=100kHz; when the frequency is above 1G, software is using RB=1MHz.

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.

RESULTS

9.2. UAT 1, PMAX BASIC DATA RATE GFSK MODULATION

9.2.1. RESTRICTED BANDEDGE (LOW CHANNEL)

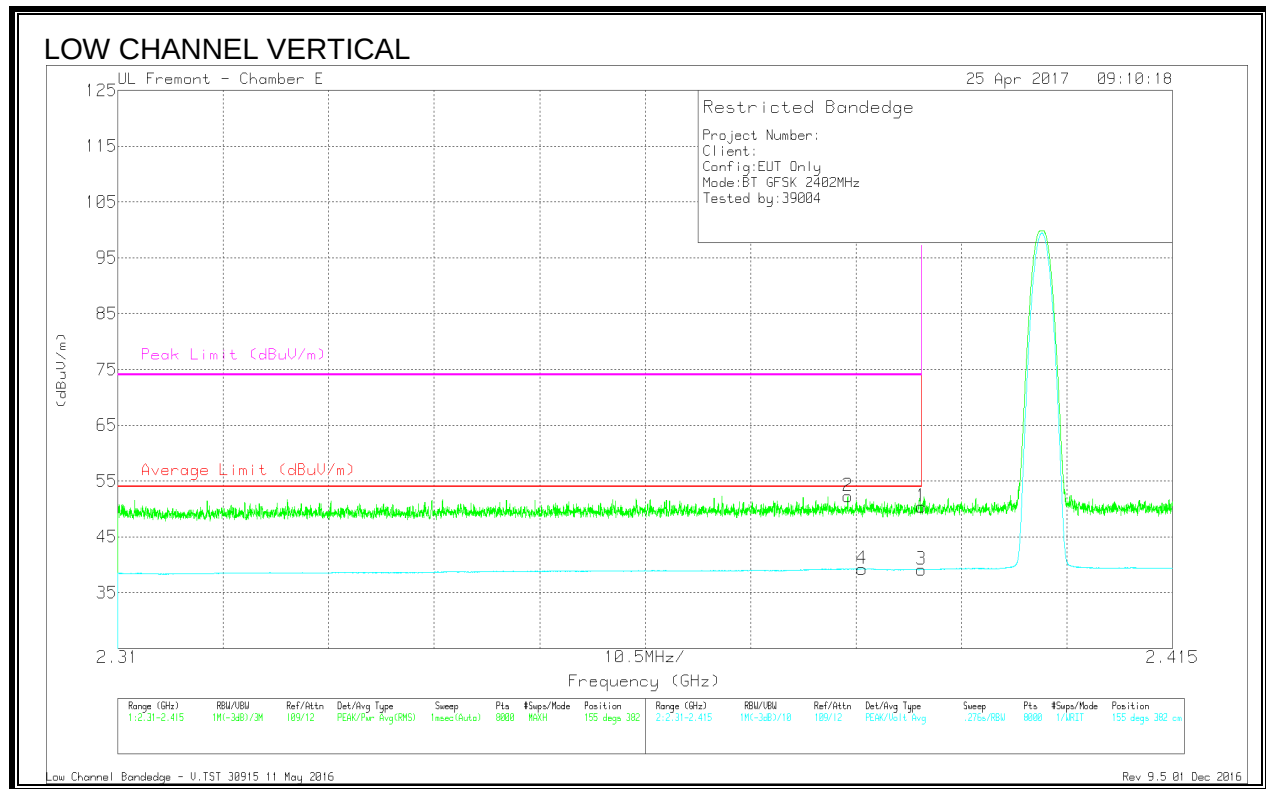


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.31	Pk	32	-19.7	49.61	-	-	74	-24.39	187	105	H
2	* 2.375	39.85	Pk	32	-19.7	52.15	-	-	74	-21.85	187	105	H
3	* 2.39	26.91	VA1T	32	-19.7	39.21	54	-14.79	-	-	187	104	H
4	* 2.385	26.82	VA1T	32	-19.5	39.32	54	-14.68	-	-	187	104	H

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

Pk - Peak detector

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



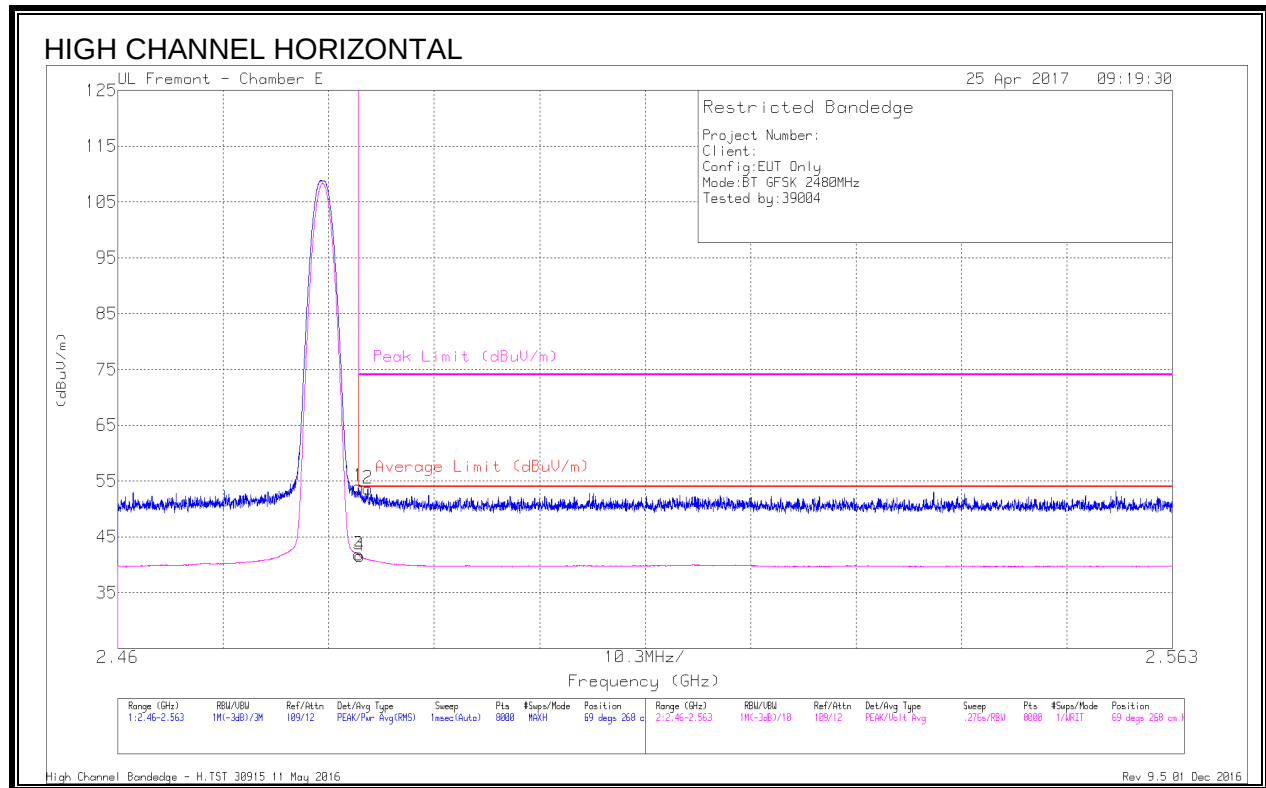
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.17	Pk	32	-19.7	50.47	-	-	74	-23.53	155	382	V
2	* 2.383	39.81	Pk	32	-19.5	52.31	-	-	74	-21.69	155	382	V
3	* 2.39	26.82	VA1T	32	-19.7	39.12	54	-14.88	-	-	155	382	V
4	* 2.384	26.77	VA1T	32	-19.5	39.27	54	-14.73	-	-	155	382	V

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

Pk - Peak detector

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

9.2.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

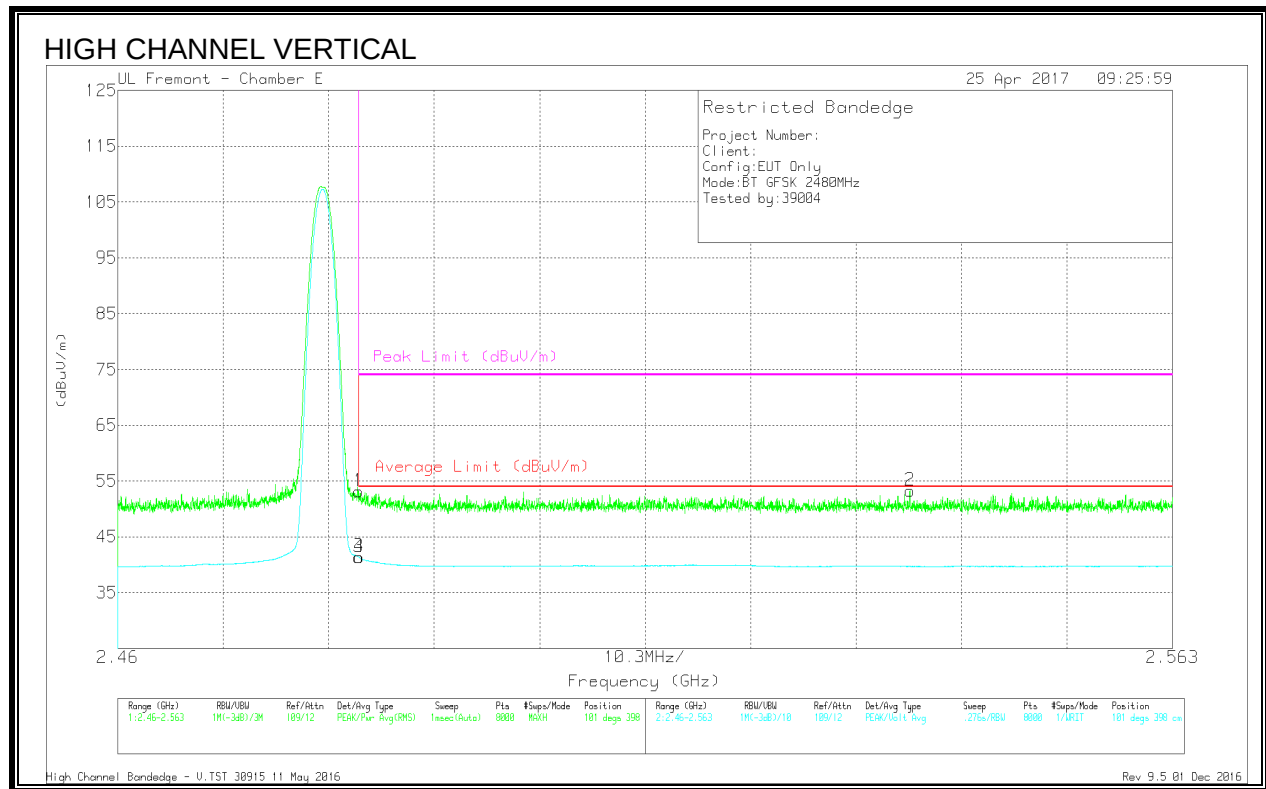


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.21	Pk	32.5	-19.7	54.01	-	-	74	-19.99	69	268	H
2	* 2.484	40.88	Pk	32.5	-19.7	53.68	-	-	74	-20.32	69	268	H
3	* 2.484	29	VA1T	32.5	-19.7	41.8	54	-12.2	-	-	69	268	H
4	* 2.484	28.77	VA1T	32.5	-19.7	41.57	54	-12.43	-	-	69	268	H

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

Pk - Peak detector

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



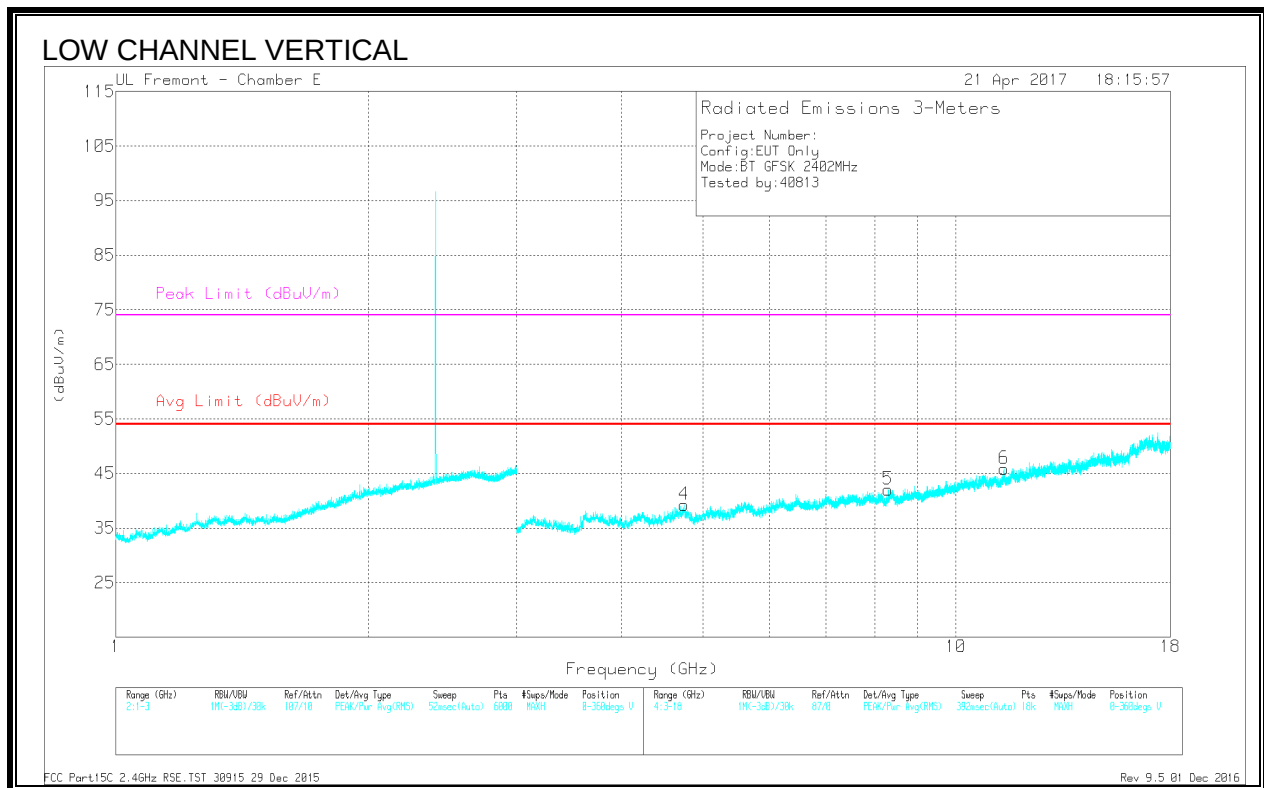
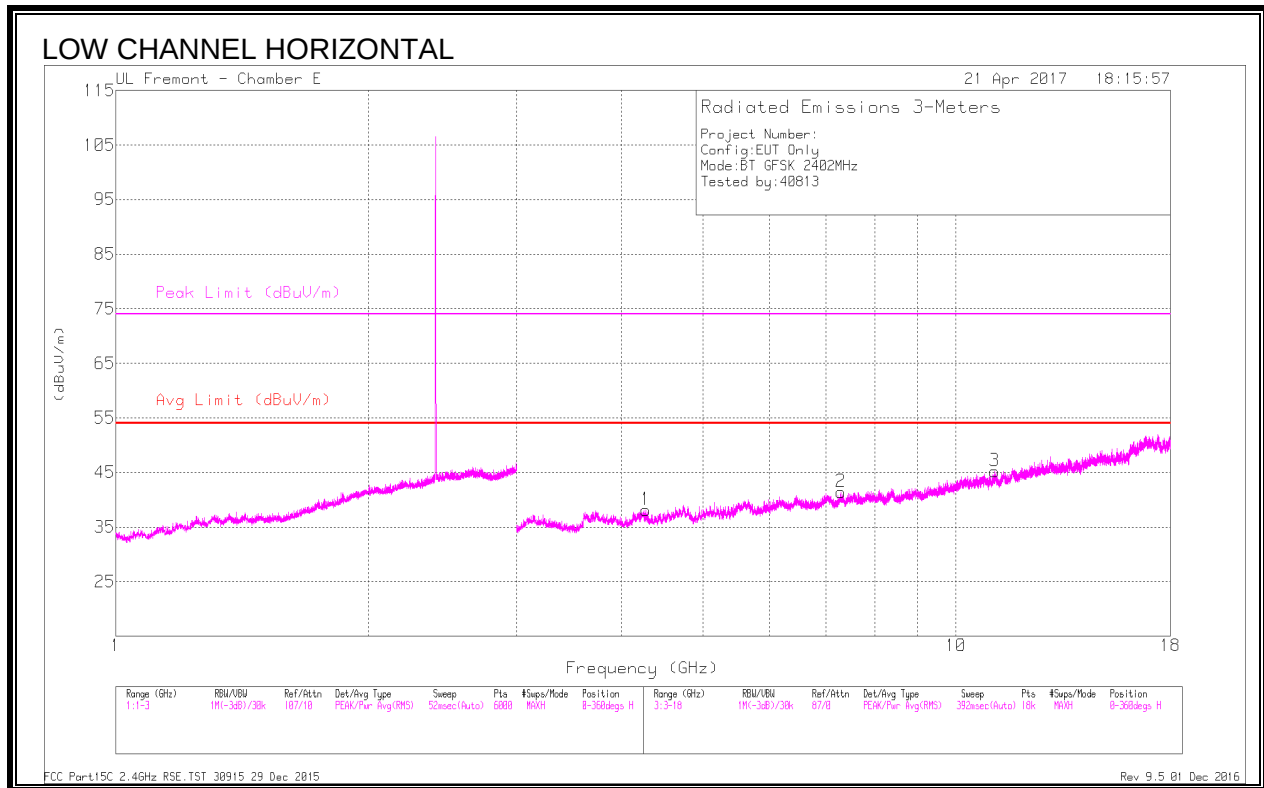
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.484	40.31	Pk	32.5	-19.7	53.11	-	-	74	-20.89	101	398	V
3	* 2.484	28.61	VA1T	32.5	-19.7	41.41	54	-12.59	-	-	101	398	V
4	* 2.484	28.52	VA1T	32.5	-19.7	41.32	54	-12.68	-	-	101	398	V
2	2.537	40.57	Pk	32.6	-19.9	53.27	-	-	74	-20.73	101	398	V

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

Pk - Peak detector

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

9.2.3. HARMONICS AND SPURIOUS EMISSIONS

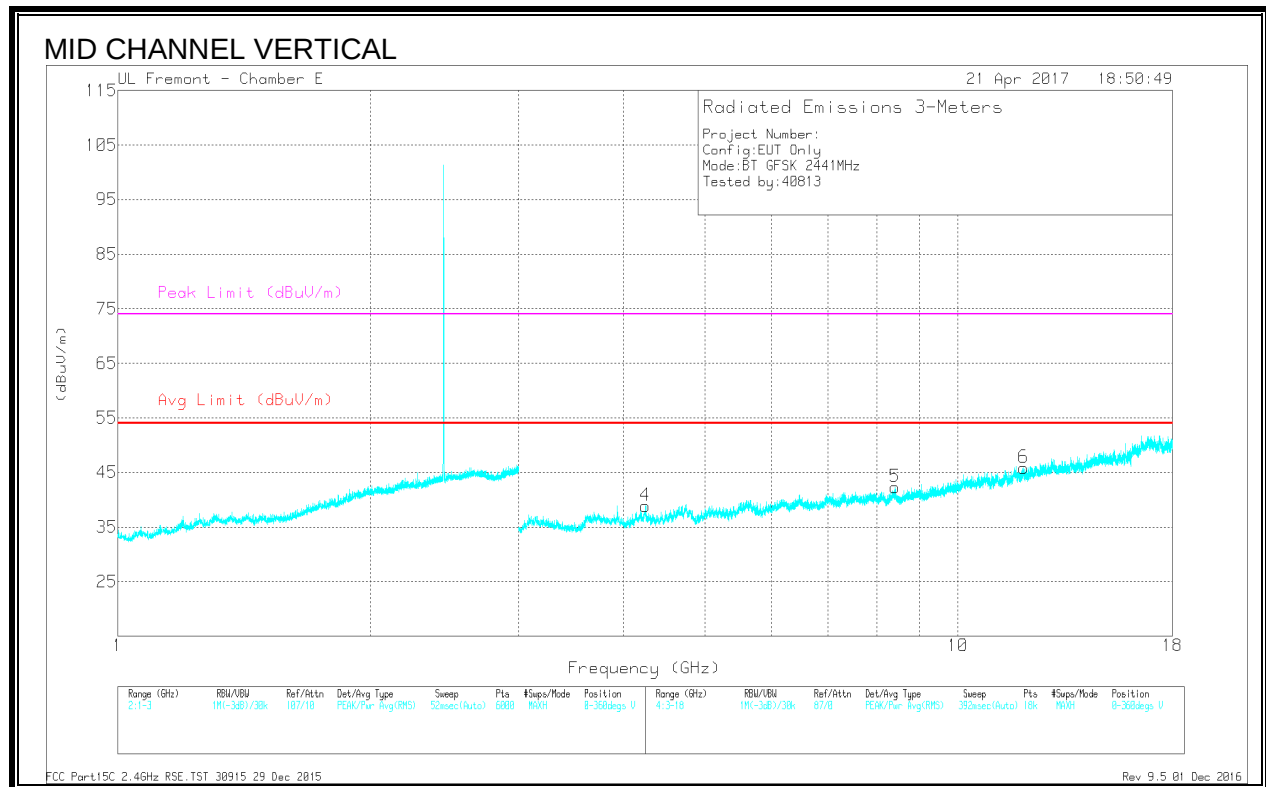
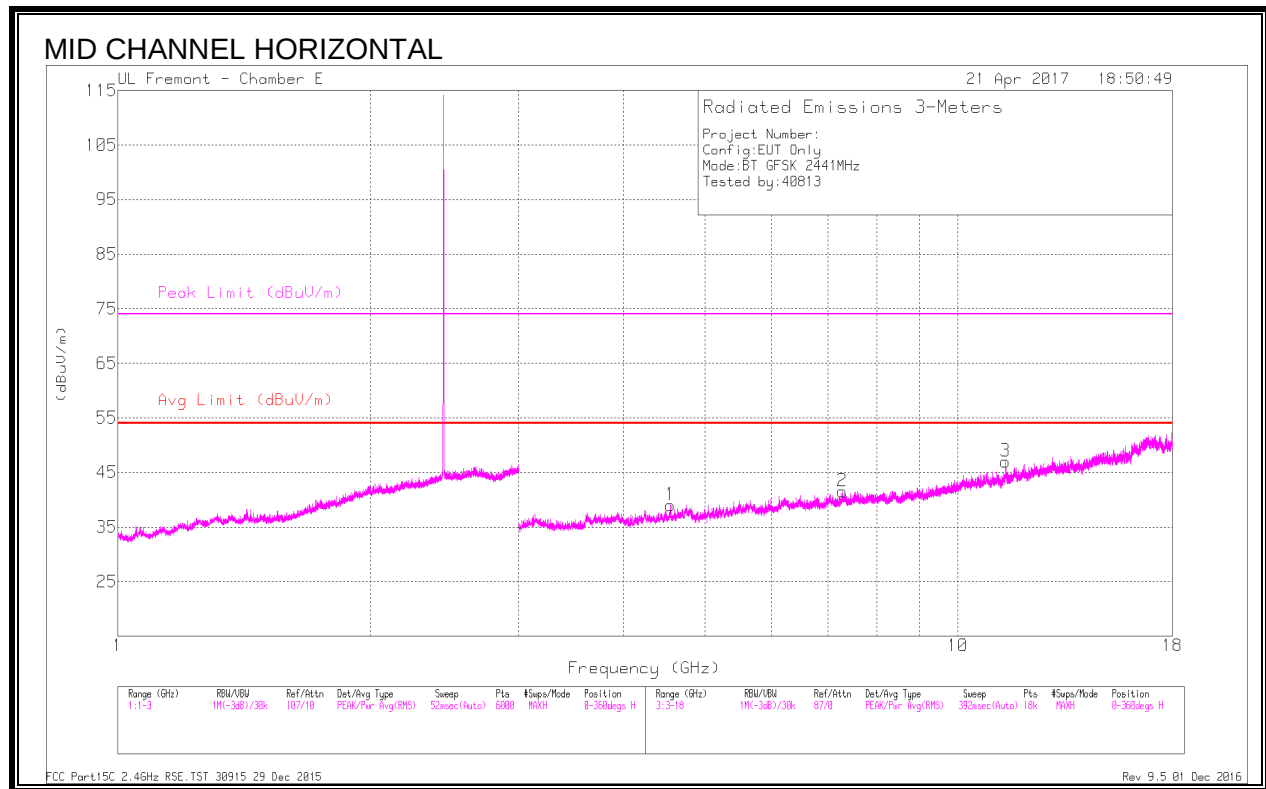


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Filt/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.275	39.84	PKFH	33.5	-29.3	44.04	-	-	74	-29.96	271	200	H
	* 4.276	28	VA1T	33.5	-29.4	32.1	54	-21.9	-	-	271	200	H
2	* 7.298	37.17	PKFH	35.9	-26.2	46.87	-	-	74	-27.13	124	114	H
	* 7.299	25.73	VA1T	35.9	-26.2	35.43	54	-18.57	-	-	124	114	H
3	* 11.125	33.82	PKFH	37.7	-22.7	48.82	-	-	74	-25.18	25	237	H
	* 11.125	23.18	VA1T	37.7	-22.7	38.18	54	-15.82	-	-	25	237	H
4	* 4.743	40.08	PKFH	34.3	-29	45.38	-	-	74	-28.62	322	112	V
	* 4.743	28.01	VA1T	34.3	-29	33.31	54	-20.69	-	-	322	112	V
5	* 8.3	37.96	PKFH	36.1	-26.8	47.26	-	-	74	-26.74	197	219	V
	* 8.301	26.02	VA1T	36.1	-26.8	35.32	54	-18.68	-	-	197	219	V
6	* 11.4	35.48	PKFH	38	-21.6	51.88	-	-	74	-22.12	113	208	V
	* 11.4	23.39	VA1T	38	-21.6	39.79	54	-14.21	-	-	113	208	V

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

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

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

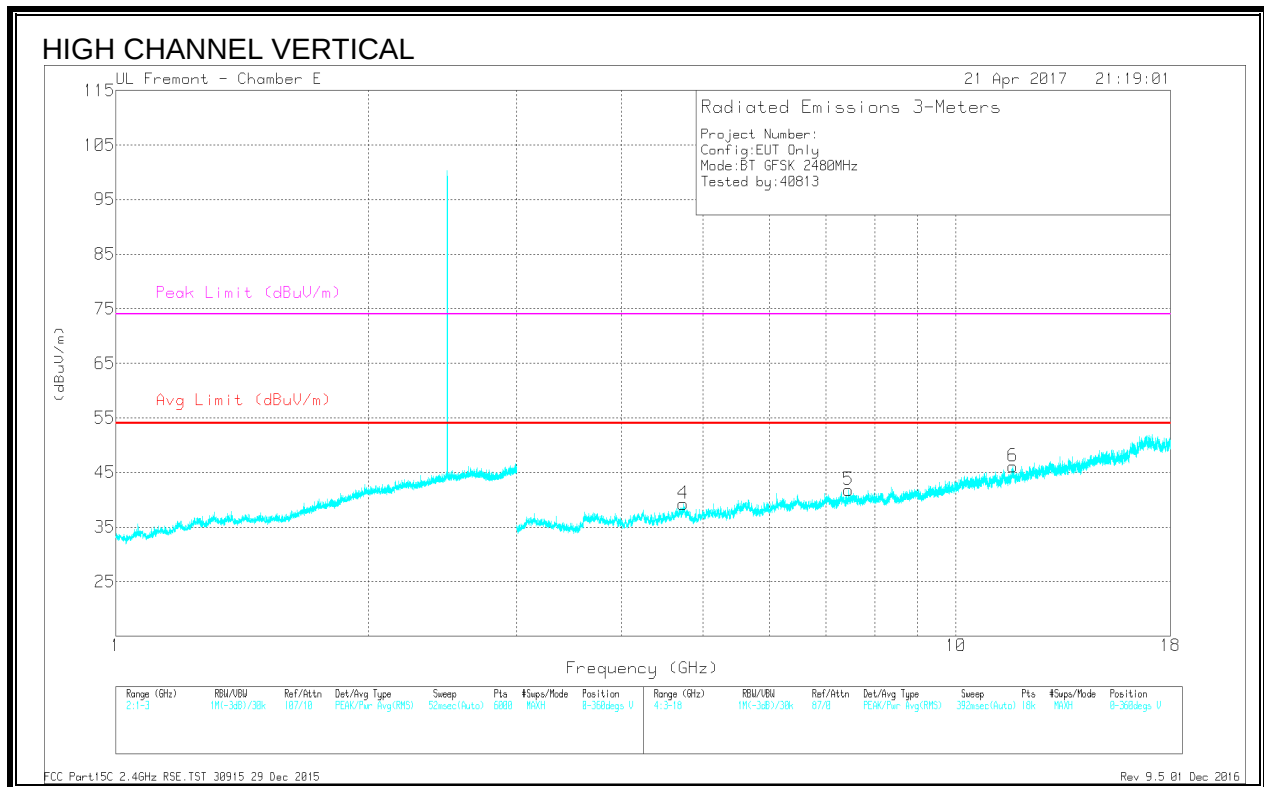
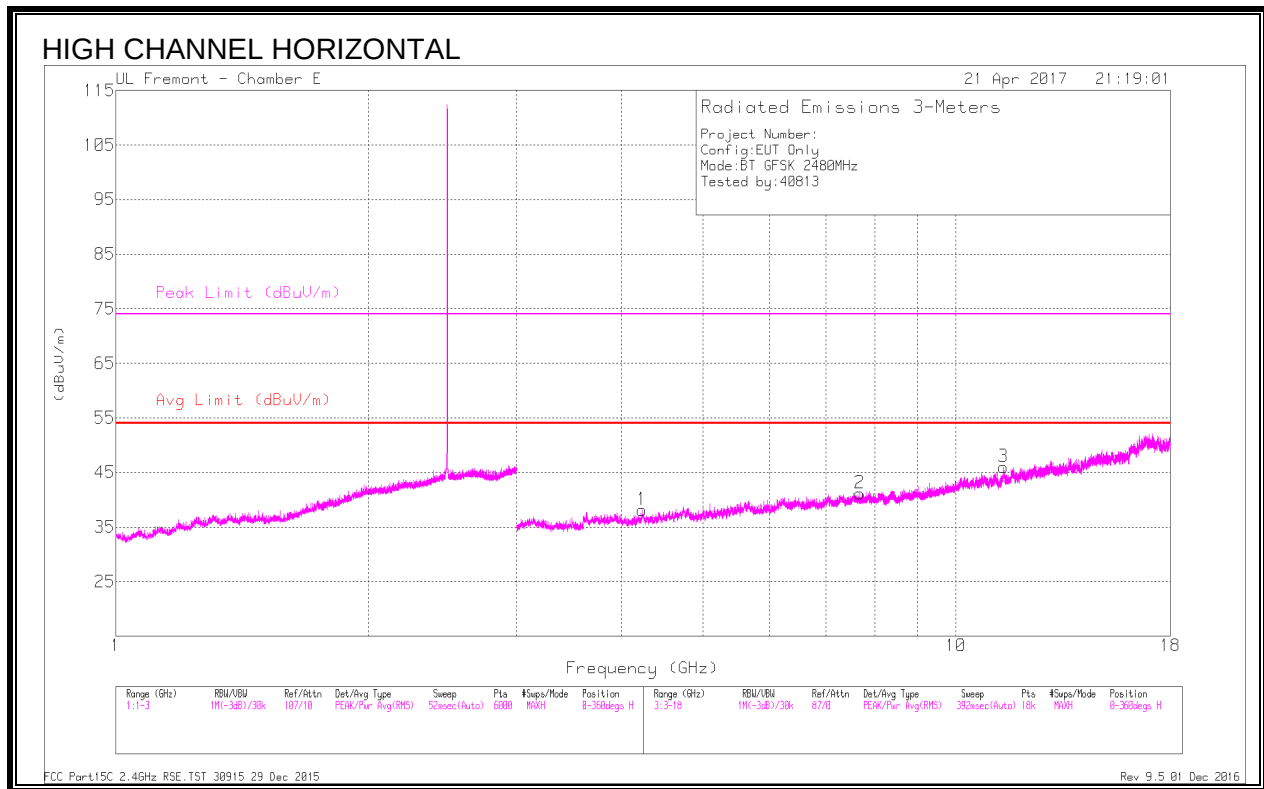


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Filt/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.55	39.9	PKFH	34.1	-29.3	44.7	-	-	74	-29.3	316	297	H
	* 4.551	27.98	VA1T	34.1	-29.3	32.78	54	-21.22	-	-	316	297	H
2	* 7.281	37.64	PKFH	35.9	-26.3	47.24	-	-	74	-26.76	211	120	H
	* 7.284	25.53	VA1T	35.9	-26.2	35.23	54	-18.77	-	-	211	120	H
3	* 11.397	36.28	PKFH	38	-21.6	52.68	-	-	74	-21.32	352	143	H
	* 11.398	23.28	VA1T	38	-21.6	39.68	54	-14.32	-	-	352	143	H
4	* 4.249	40.66	PKFH	33.5	-28.8	45.36	-	-	74	-28.64	212	220	V
	* 4.248	27.85	VA1T	33.5	-28.8	32.55	54	-21.45	-	-	212	220	V
5	* 8.415	37.18	PKFH	36	-25.2	47.98	-	-	74	-26.02	75	102	V
	* 8.414	25.1	VA1T	36	-25.2	35.9	54	-18.1	-	-	75	102	V
6	* 11.976	35.61	PKFH	38.8	-22.4	52.01	-	-	74	-21.99	195	226	V
	* 11.976	23.34	VA1T	38.8	-22.4	39.74	54	-14.26	-	-	195	226	V

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

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

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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 4.233	39.75	PKFH	33.5	-28.8	44.45	-	-	74	-29.55	73	119	H
	* 4.231	28.11	VA1T	33.5	-28.9	32.71	54	-21.29	-	-	73	119	H
2	* 7.686	37.61	PKFH	36.1	-27.2	46.51	-	-	74	-27.49	353	135	H
	* 7.686	25.85	VA1T	36.1	-27.2	34.75	54	-19.25	-	-	353	135	H
3	* 11.393	35.61	PKFH	38	-21.8	51.81	-	-	74	-22.19	239	279	H
	* 11.392	23.25	VA1T	38	-21.8	39.45	54	-14.55	-	-	239	279	H
4	* 4.734	39.63	PKFH	34.3	-29.1	44.83	-	-	74	-29.17	133	335	V
	* 4.737	27.69	VA1T	34.3	-29	32.99	54	-21.01	-	-	133	335	V
5	* 7.444	39.08	PKFH	36	-27.3	47.78	-	-	74	-26.22	254	284	V
	* 7.446	26.28	VA1T	36	-27.4	34.88	54	-19.12	-	-	254	284	V
6	* 11.683	35.22	PKFH	38.3	-22.2	51.32	-	-	74	-22.68	32	186	V
	* 11.68	23.57	VA1T	38.3	-22.2	39.67	54	-14.33	-	-	32	186	V

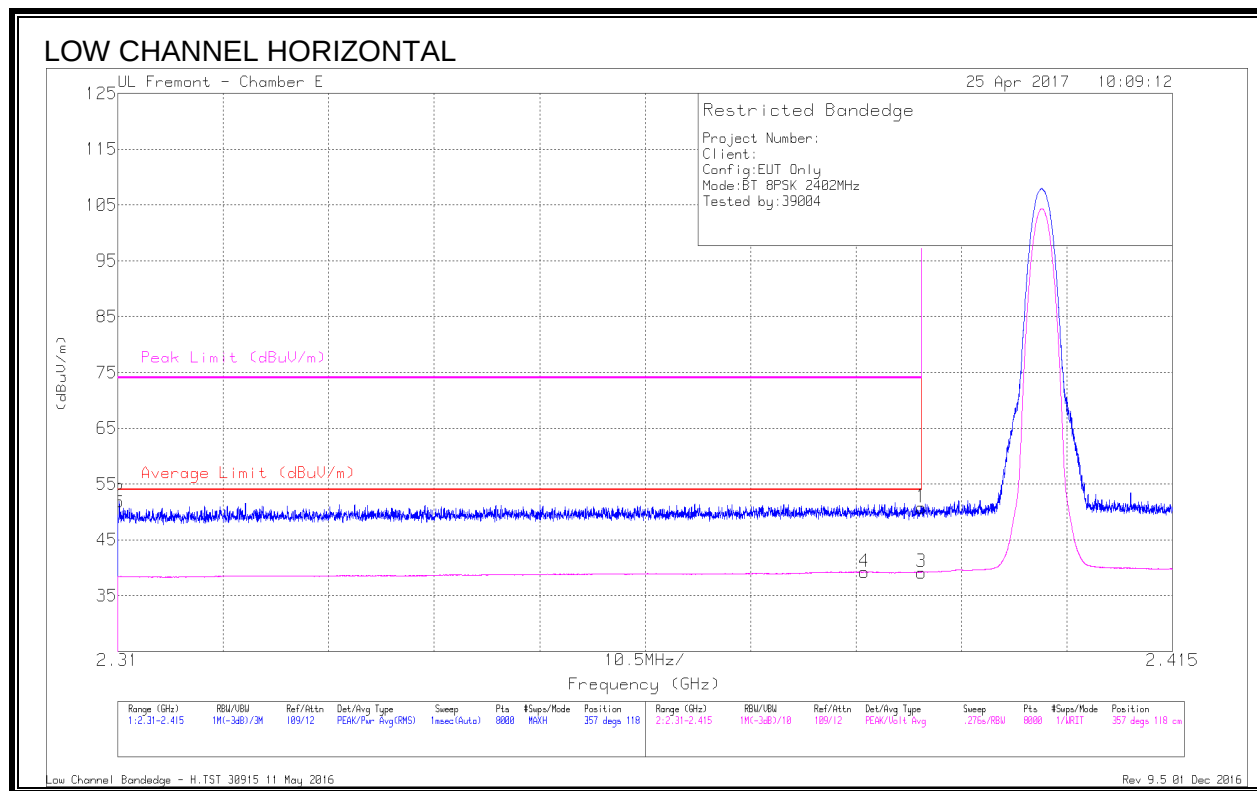
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

9.3. UAT 1, PMAX ENHANCED DATA RATE 8PSK MODULATION

9.3.1. RESTRICTED BANDEDGE (LOW CHANNEL)

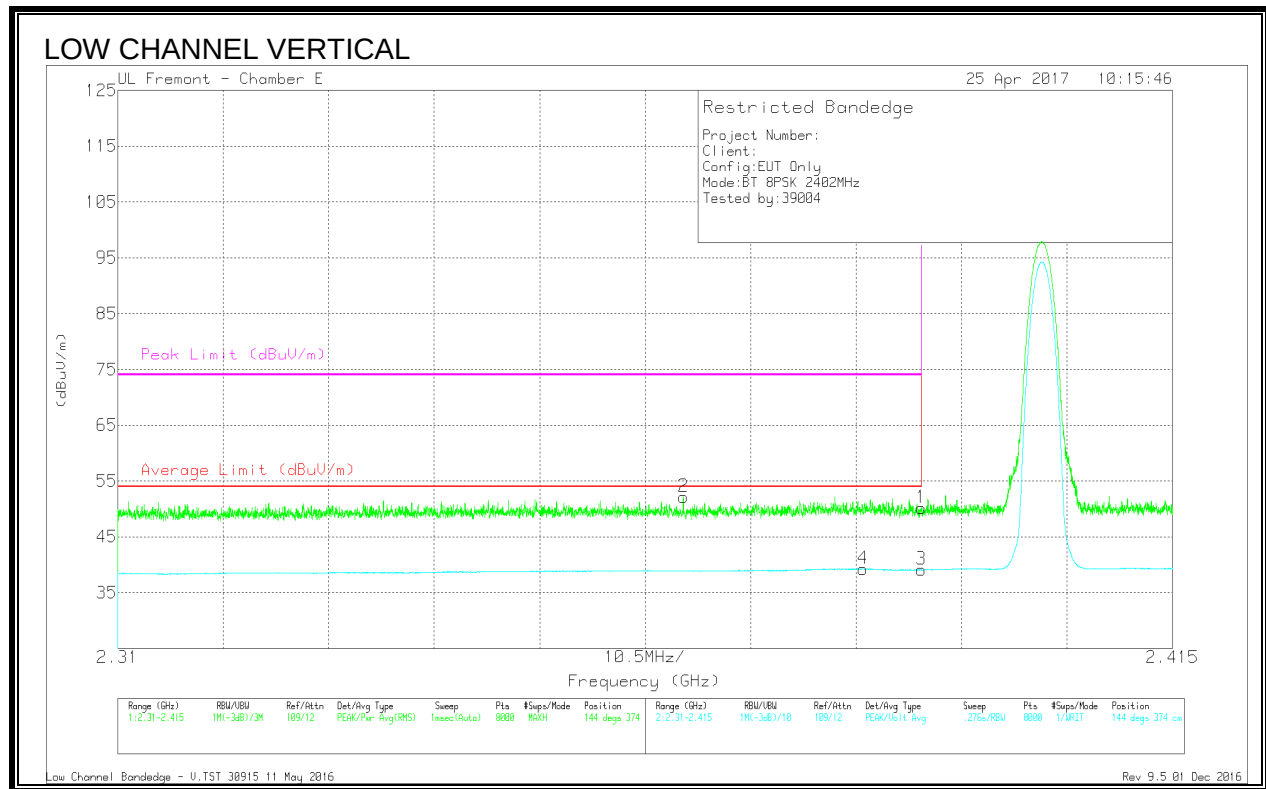


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.55	Pk	32	-19.7	50.85	-	-	74	-23.15	357	118	H
2	* 2.31	39.96	Pk	31.7	-19.8	51.86	-	-	74	-22.14	357	118	H
3	* 2.39	26.88	VA1T	32	-19.7	39.18	54	-14.82	-	-	357	118	H
4	* 2.384	26.76	VA1T	32	-19.5	39.26	54	-14.74	-	-	357	118	H

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

Pk - Peak detector

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



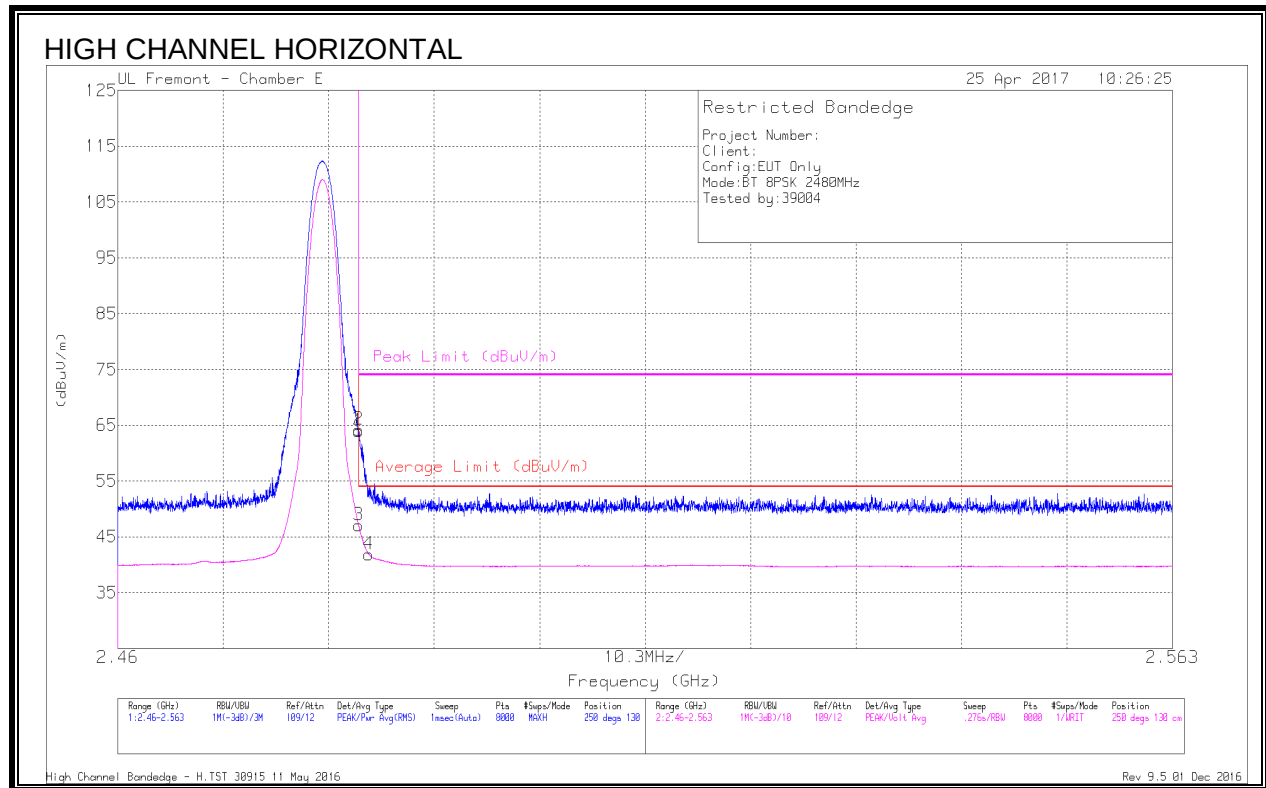
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/ m)	Average Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.83	Pk	32	-19.7	50.13	-	-	74	-23.87	144	374	V
2	* 2.366	40.06	Pk	31.9	-19.8	52.16	-	-	74	-21.84	144	374	V
3	* 2.39	26.77	VA1T	32	-19.7	39.07	54	-14.93	-	-	144	374	V
4	* 2.384	26.75	VA1T	32	-19.5	39.25	54	-14.75	-	-	144	374	V

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

Pk - Peak detector

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

9.3.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

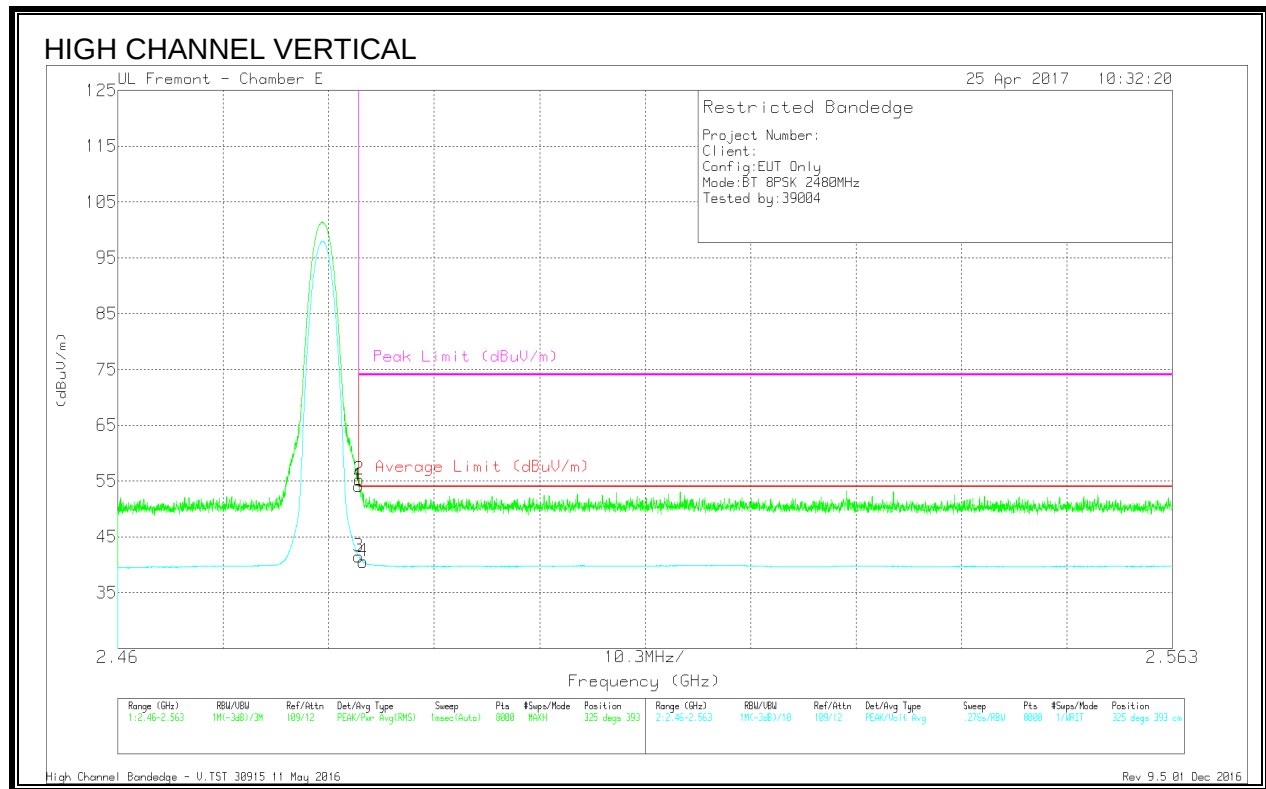


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.13	Pk	32.5	-19.7	63.93	-	-	74	-10.07	250	130	H
2	* 2.484	51.44	Pk	32.5	-19.7	64.24	-	-	74	-9.76	250	130	H
3	* 2.484	34.29	VA1T	32.5	-19.7	47.09	54	-6.91	-	-	250	130	H
4	* 2.485	29.02	VA1T	32.5	-19.7	41.82	54	-12.18	-	-	250	130	H

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

Pk - Peak detector

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



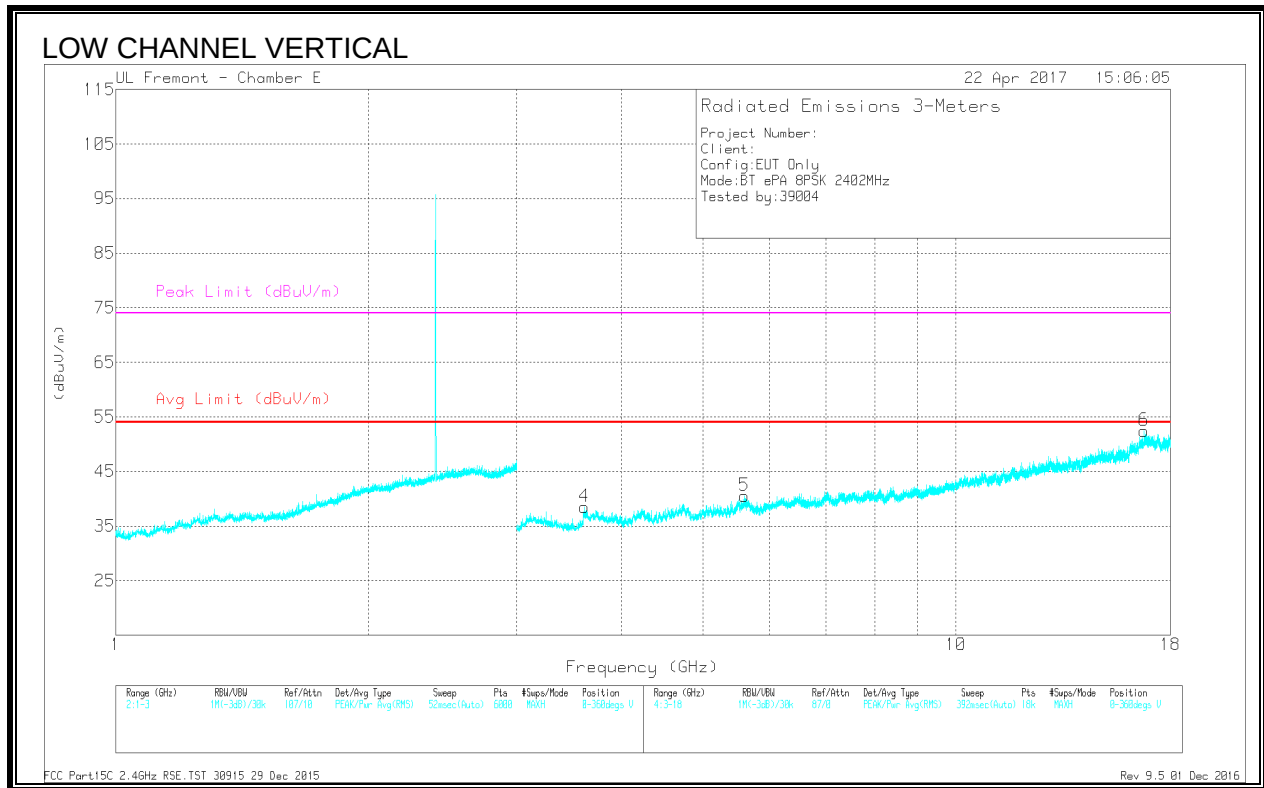
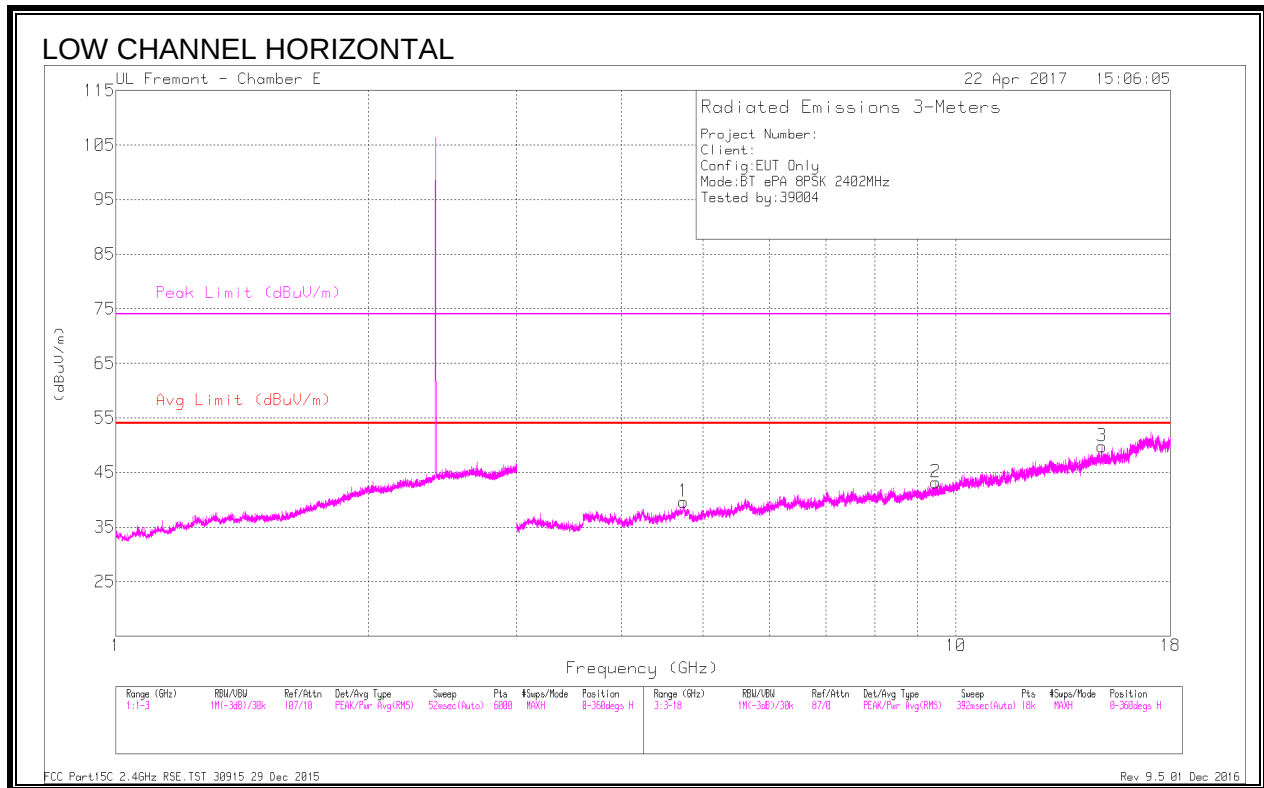
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.484	41.39	Pk	32.5	-19.7	54.19	-	-	74	-19.81	325	393	V
2	* 2.484	42.42	Pk	32.5	-19.7	55.22	-	-	74	-18.78	325	393	V
3	* 2.484	28.72	VA1T	32.5	-19.7	41.52	54	-12.48	-	-	325	393	V
4	* 2.484	27.75	VA1T	32.5	-19.7	40.55	54	-13.45	-	-	325	393	V

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

Pk - Peak detector

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

9.3.3. HARMONICS AND SPURIOUS EMISSIONS

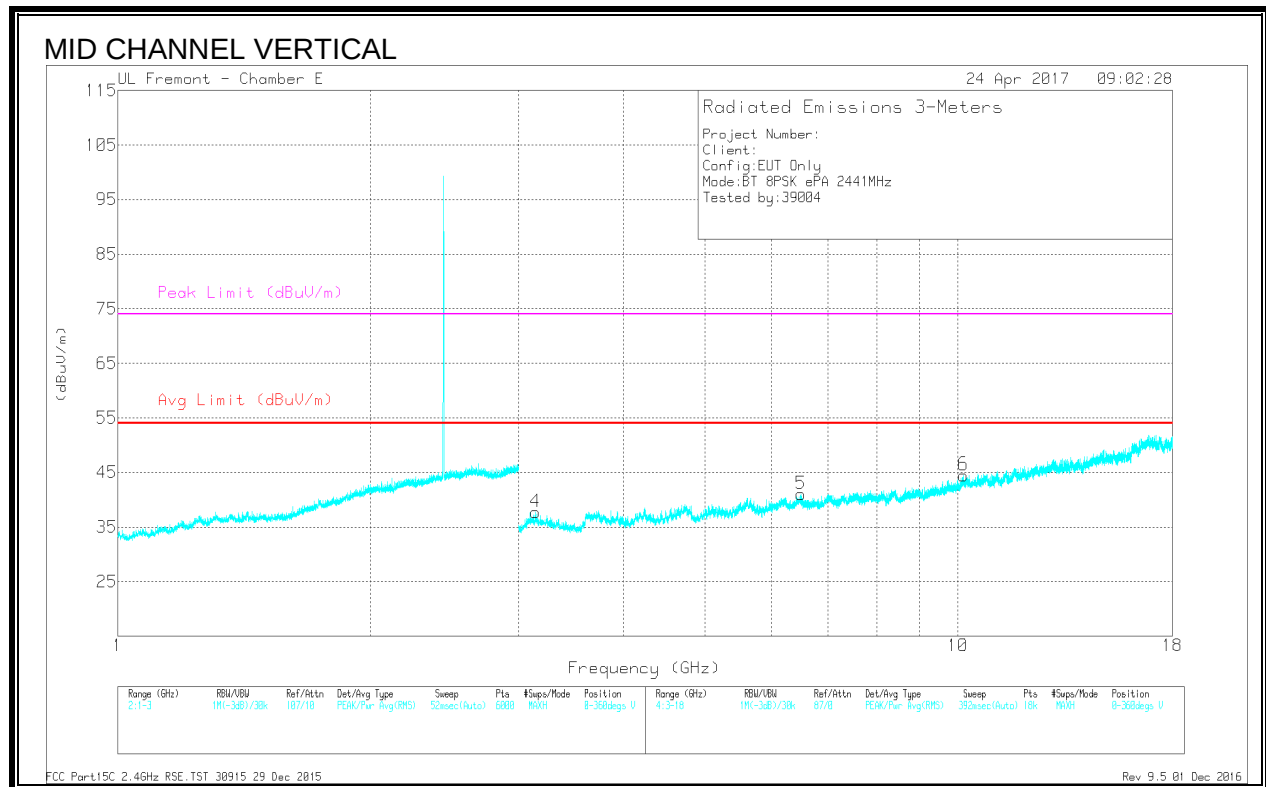
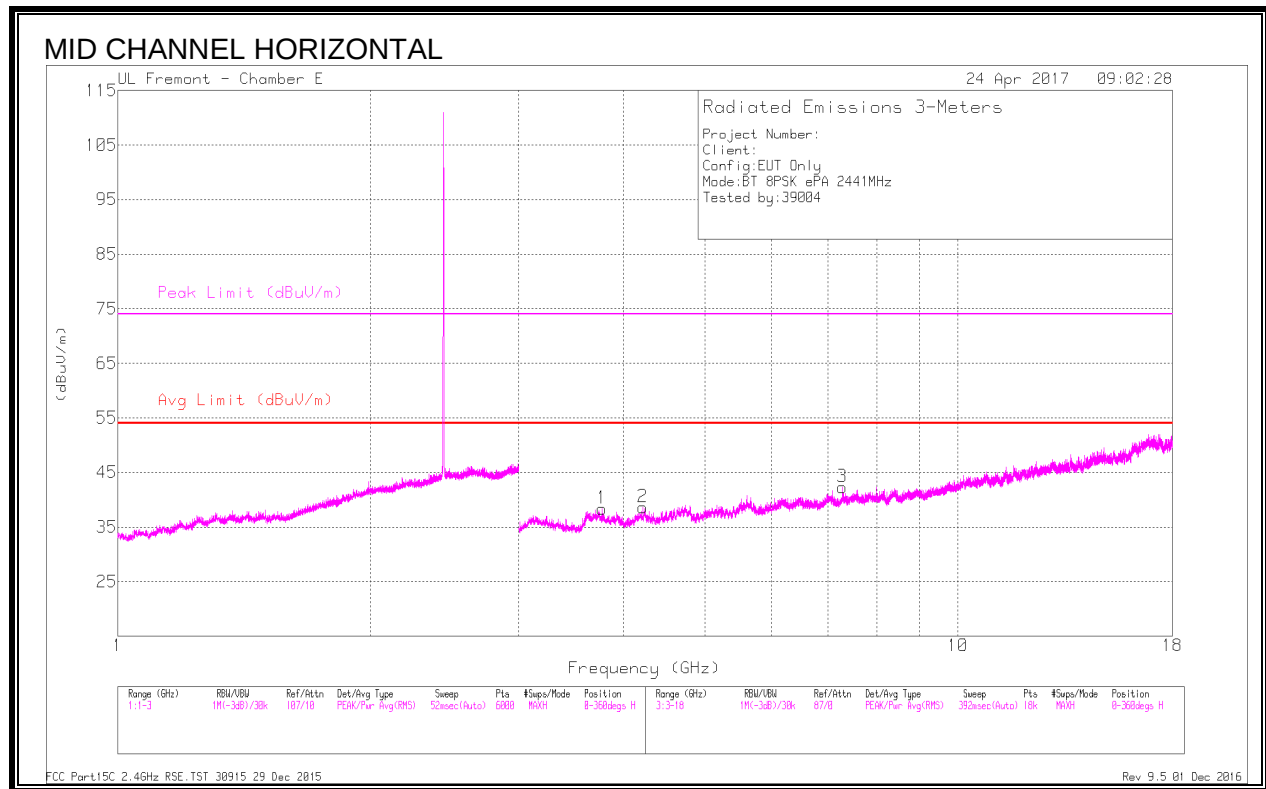


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.743	39.71	PKFH	34.3	-29	45.01	-	-	74	-28.99	279	268	H
	* 4.743	27.88	VA1T	34.3	-29	33.18	54	-20.82	-	-	279	268	H
2	* 9.457	37.35	PKFH	36.6	-25.1	48.85	-	-	74	-25.15	250	220	H
	* 9.459	24.53	VA1T	36.6	-25	36.13	54	-17.87	-	-	250	220	H
4	* 3.609	41.2	PKFH	32.9	-30.4	43.7	-	-	74	-30.3	225	175	V
	* 3.612	28.56	VA1T	33	-30.5	31.06	54	-22.94	-	-	225	175	V
5	5.602	39.87	PKFH	35.4	-29	46.27	-	-	-	-	196	233	V
3	14.907	37.23	PKFH	40.6	-22.8	55.03	-	-	-	-	210	102	H
6	16.752	36.32	PKFH	42.5	-21.7	57.12	-	-	-	-	218	124	V

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

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

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

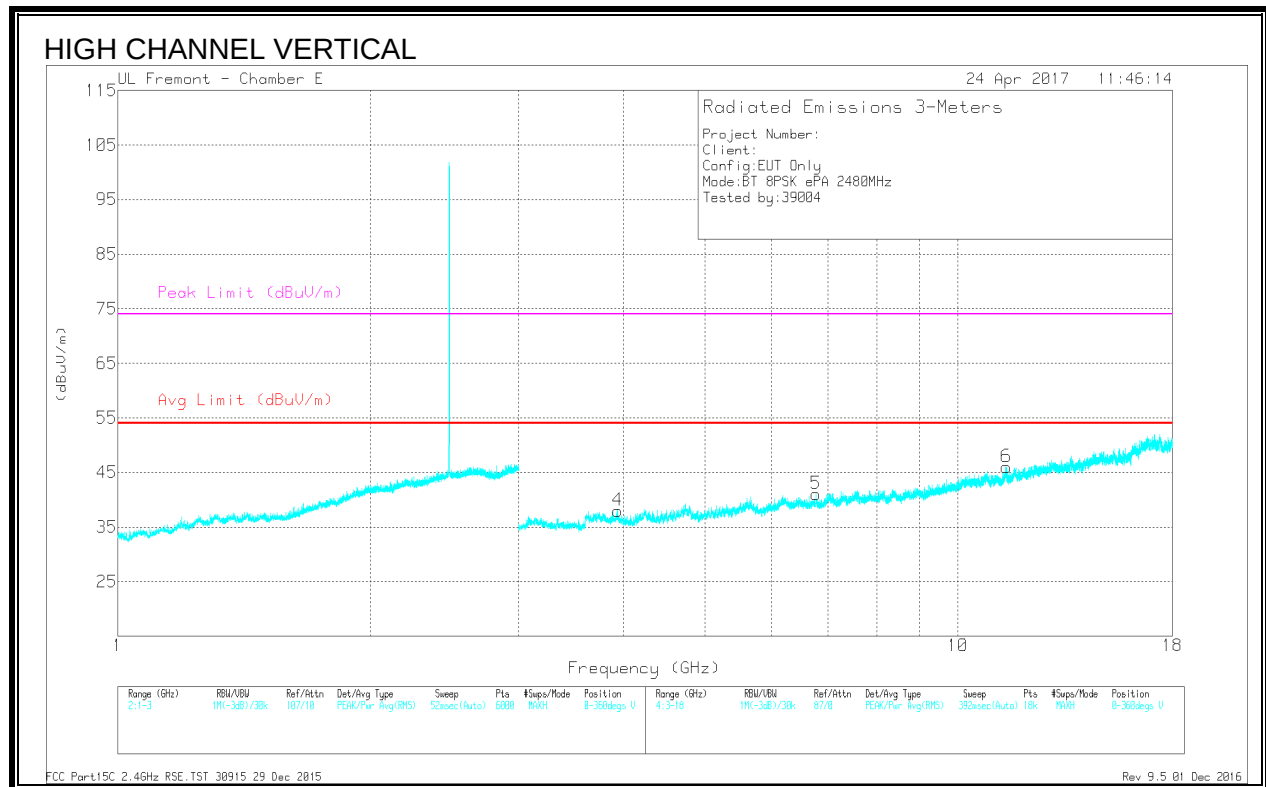
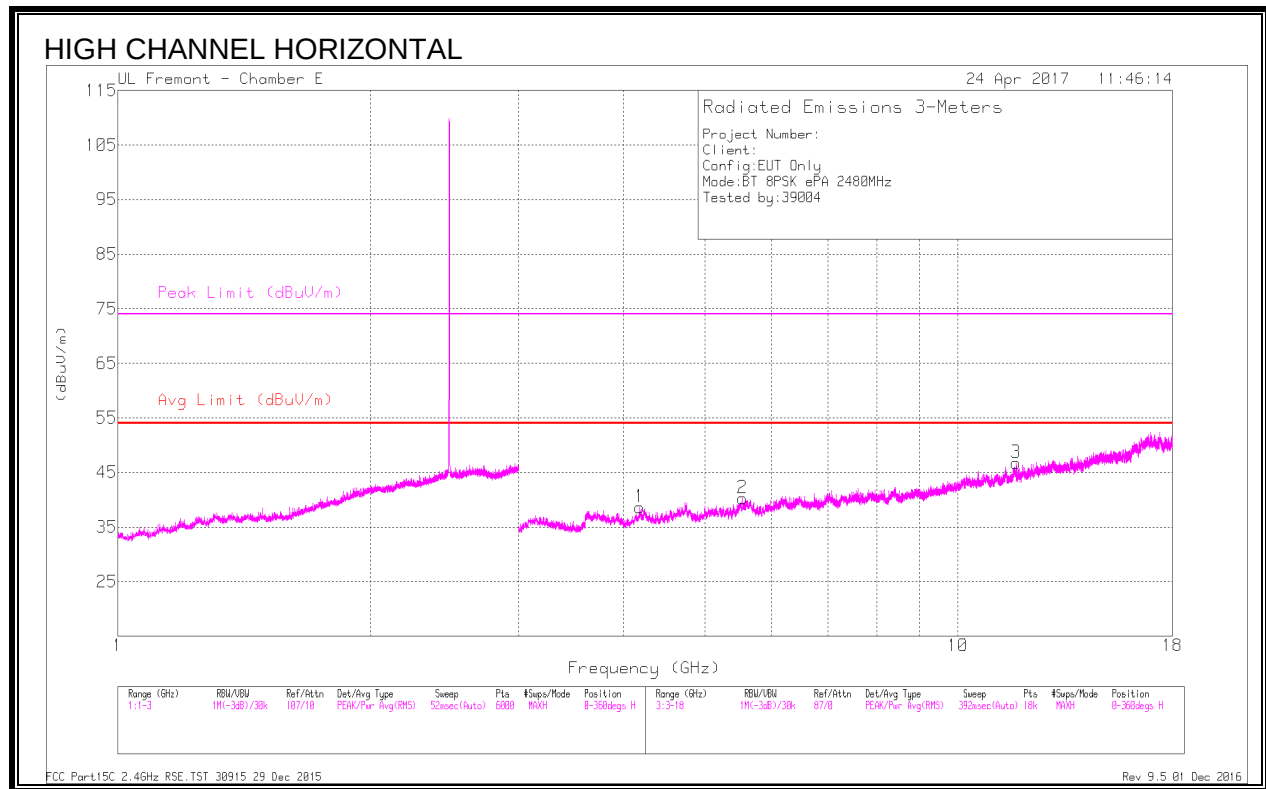


Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.77	39.8	PKFH	33.4	-30.3	42.9	-	-	74	-31.1	164	165	H
	* 3.772	28.7	VA1T	33.4	-30.3	31.8	54	-22.2	-	-	164	165	H
2	* 4.213	39.97	PKFH	33.5	-29.4	44.07	-	-	74	-29.93	152	230	H
	* 4.215	28.14	VA1T	33.5	-29.4	32.24	54	-21.76	-	-	152	230	H
3	* 7.282	38.49	PKFH	35.9	-26.2	48.19	-	-	74	-25.81	142	189	H
	* 7.284	25.59	VA1T	35.9	-26.2	35.29	54	-18.71	-	-	142	189	H
4	3.142	39.76	PKFH	33.2	-29.8	43.16	-	-	-	-	135	211	V
5	6.509	38.57	PKFH	35.7	-27.6	46.67	-	-	-	-	122	117	V
6	10.145	35.45	PKFH	37.3	-22.8	49.95	-	-	-	-	98	154	V

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

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

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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 4.18	40.18	PKFH	33.5	-30	43.68	-	-	74	-30.32	351	123	H
	* 4.178	28.87	VA1T	33.5	-30	32.37	54	-21.63			351	123	H
3	* 11.723	35.9	PKFH	38.4	-22.3	52	-	-	74	-22	320	144	H
	* 11.723	24.03	VA1T	38.4	-22.3	40.13	54	-13.87	-	-	320	144	H
4	* 3.938	40.68	PKFH	33.4	-29.3	44.78	-	-	74	-29.22	320	112	V
	* 3.936	28.34	VA1T	33.4	-29.3	32.44	54	-21.56			320	112	V
6	* 11.419	34.76	PKFH	38	-22.1	50.66	-	-	74	-23.34	300	212	V
	* 11.418	23.29	VA1T	38	-22.1	39.19	54	-14.81			300	212	V
2	5.544	40.1	PKFH	35.4	-29.8	45.7	-	-			285	116	H
5	6.776	38.53	PKFH	35.6	-26.9	47.23	-	-			275	136	V

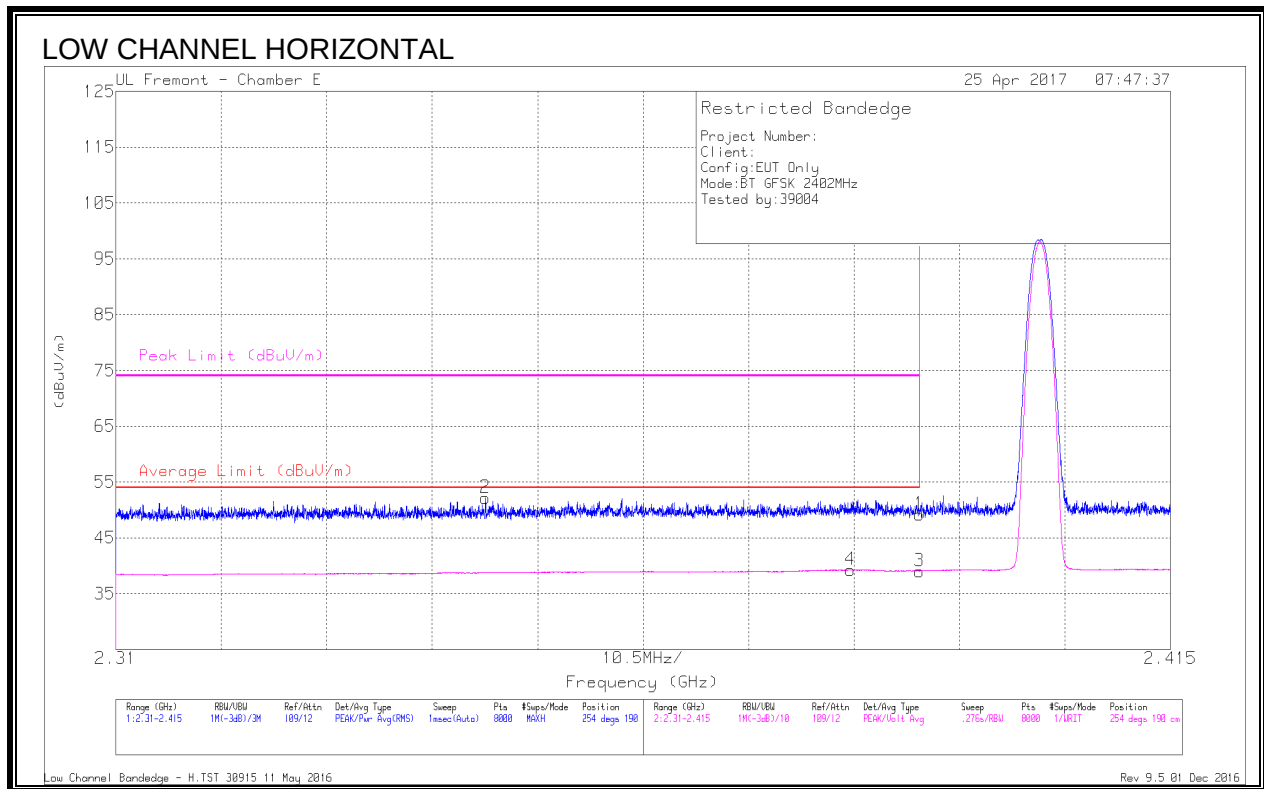
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

9.4. UAT 1, PLOW BASIC DATA RATE GFSK MODULATION

9.4.1. RESTRICTED BANDEDGE (LOW CHANNEL)

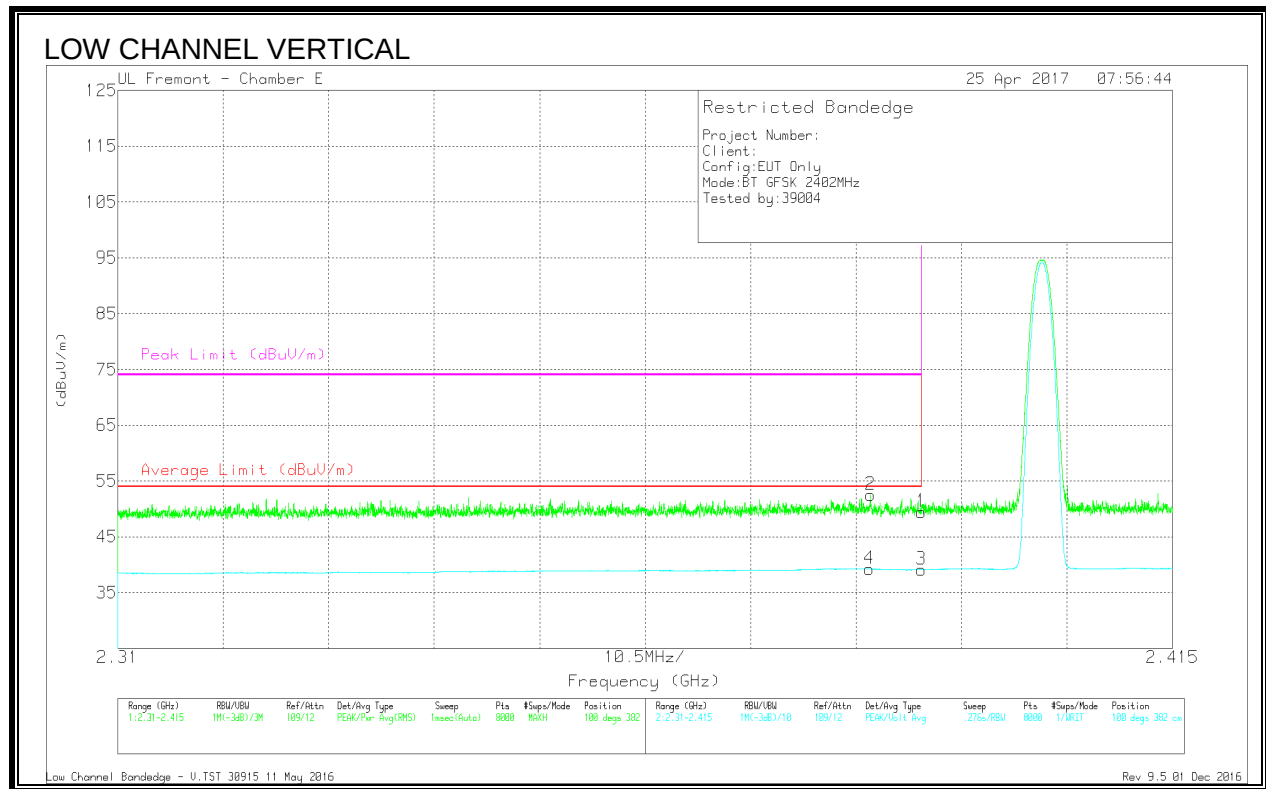


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.86	Pk	32	-19.7	49.16	-	-	74	-24.84	254	190	H
2	* 2.347	40.01	Pk	31.9	-19.7	52.21	-	-	74	-21.79	254	190	H
3	* 2.39	26.75	VA1T	32	-19.7	39.05	54	-14.95	-	-	254	190	H
4	* 2.383	26.74	VA1T	32	-19.5	39.24	54	-14.76	-	-	254	190	H

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

Pk - Peak detector

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



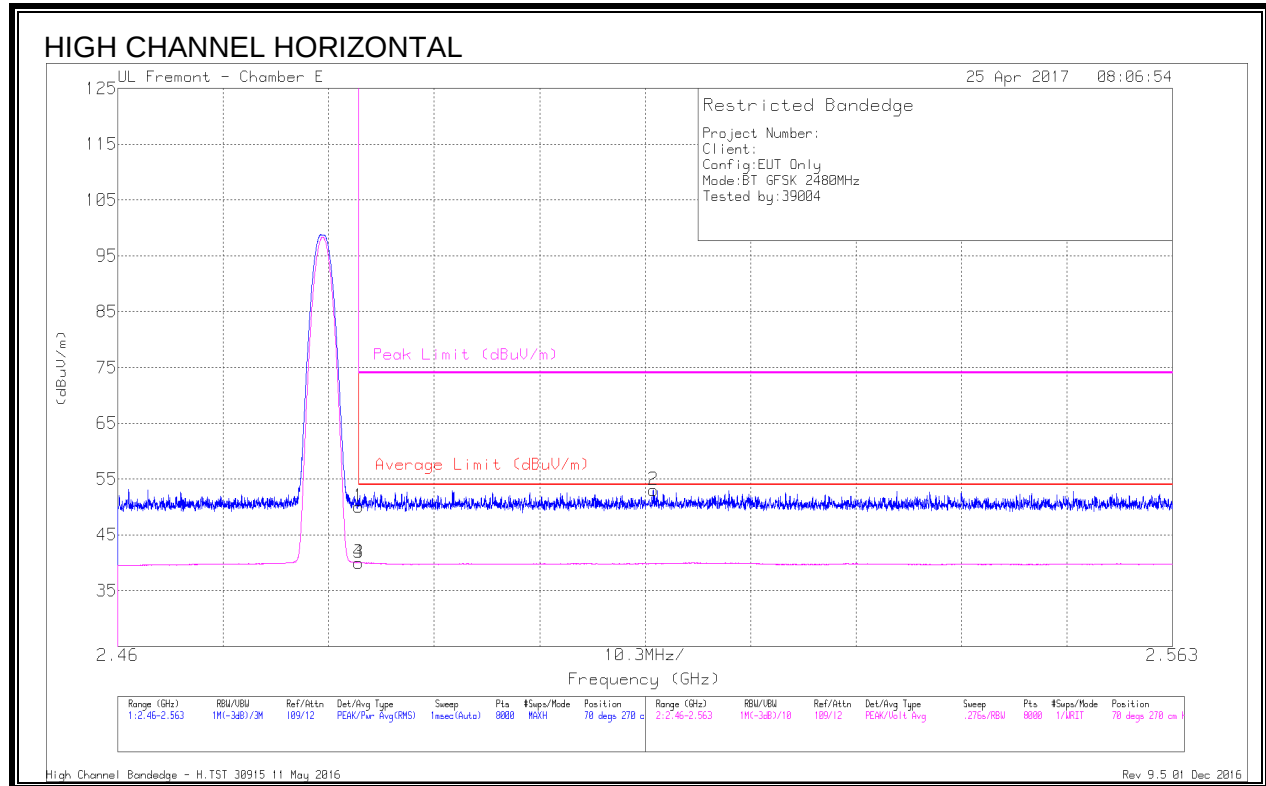
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.18	Pk	32	-19.7	49.48	-	-	74	-24.52	100	382	V
2	* 2.385	39.98	Pk	32	-19.5	52.48	-	-	74	-21.52	100	382	V
3	* 2.39	26.83	VA1T	32	-19.7	39.13	54	-14.87	-	-	100	382	V
4	* 2.385	26.79	VA1T	32	-19.5	39.29	54	-14.71	-	-	100	382	V

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

Pk - Peak detector

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

9.4.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

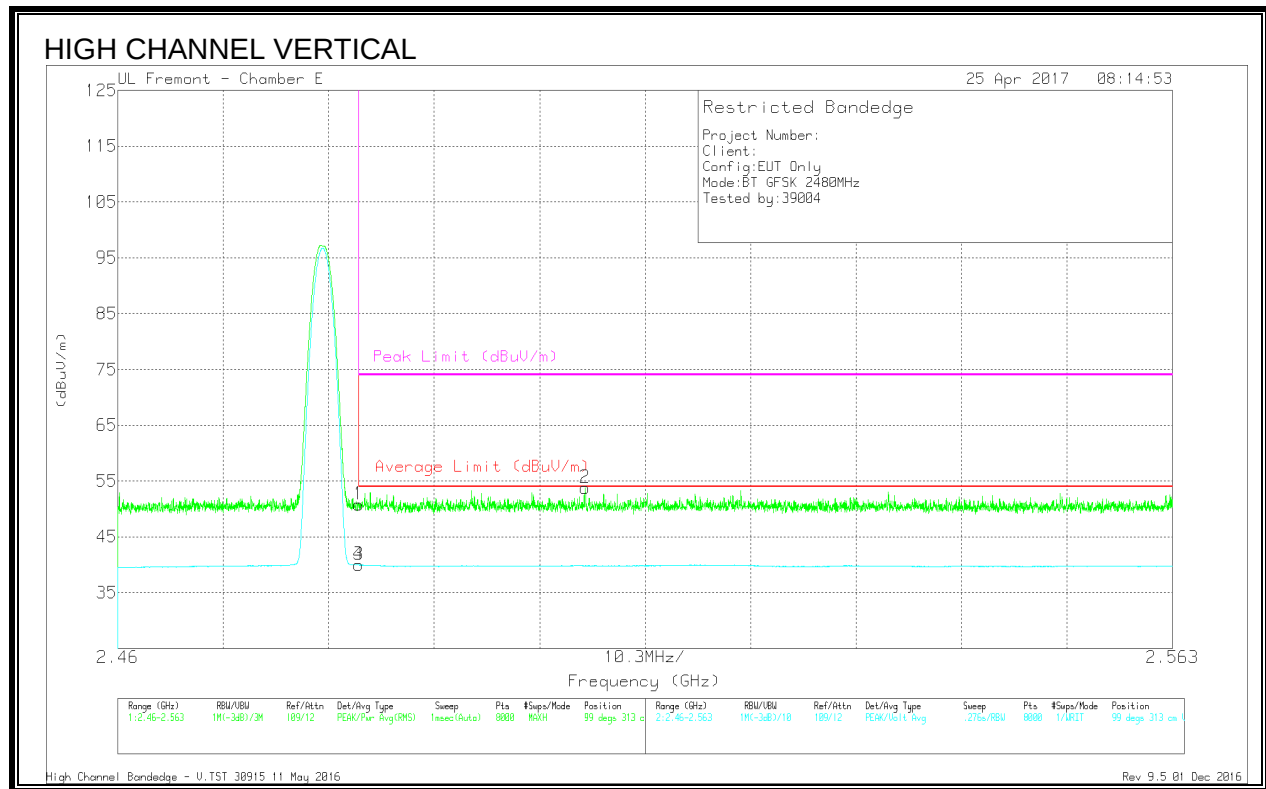


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.3	Pk	32.5	-19.7	50.1	-	-	74	-23.9	70	270	H
3	* 2.484	27.24	VA1T	32.5	-19.7	40.04	54	-13.96	-	-	70	270	H
4	* 2.484	27.24	VA1T	32.5	-19.7	40.04	54	-13.96	-	-	70	270	H
2	2.512	40.19	Pk	32.6	-19.8	52.99	-	-	74	-21.01	70	270	H

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

Pk - Peak detector

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



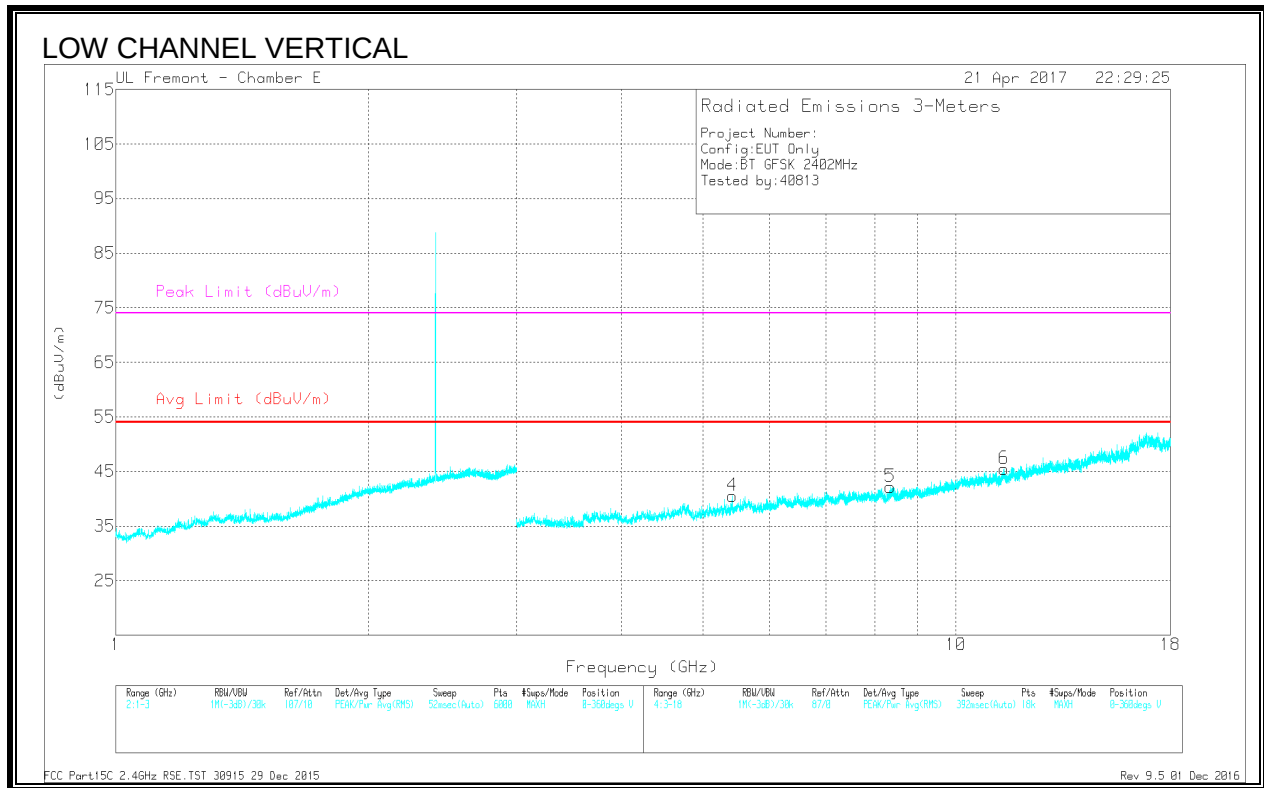
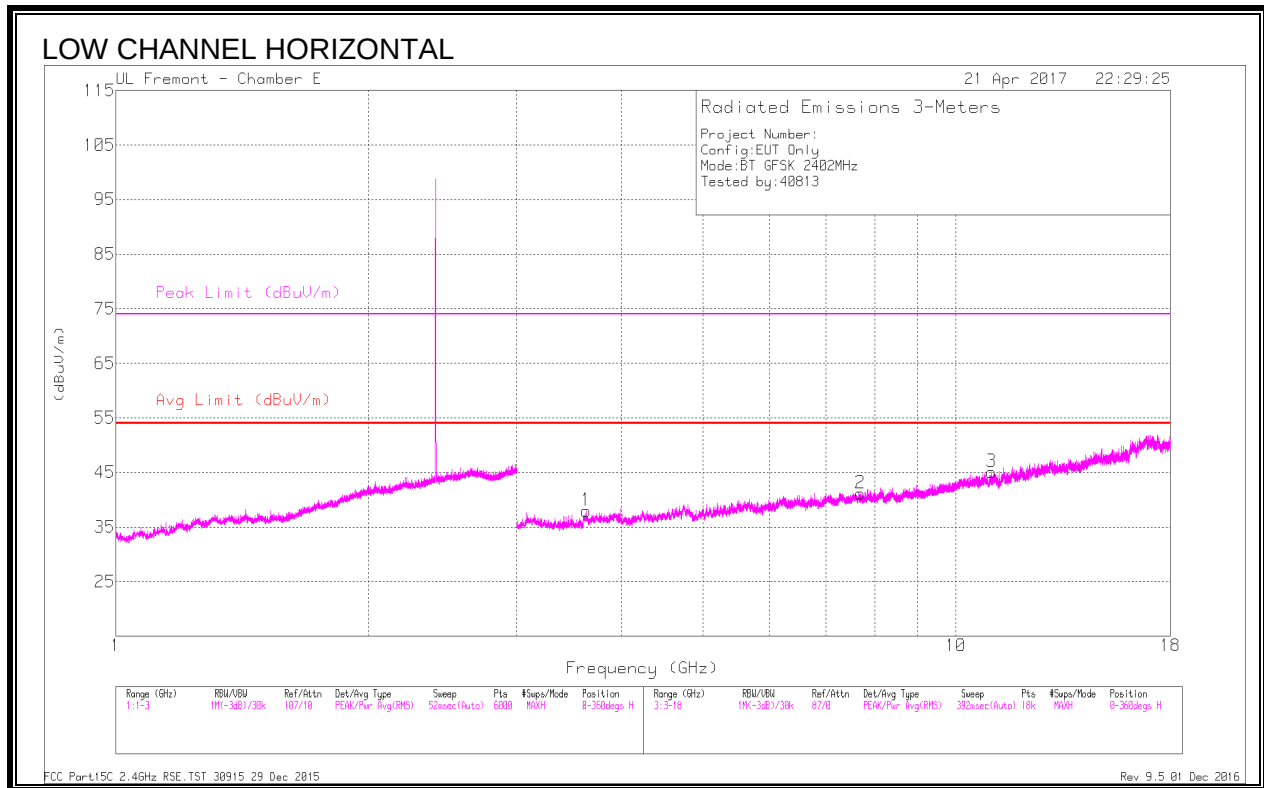
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.484	38.01	Pk	32.5	-19.7	50.81	-	-	74	-23.19	99	313	V
3	* 2.484	27.16	VA1T	32.5	-19.7	39.96	54	-14.04	-	-	99	313	V
4	* 2.484	27.16	VA1T	32.5	-19.7	39.96	54	-14.04	-	-	99	313	V
2	2.506	40.96	Pk	32.6	-19.8	53.76	-	-	74	-20.24	99	313	V

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

Pk - Peak detector

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

9.4.3. HARMONICS AND SPURIOUS EMISSIONS

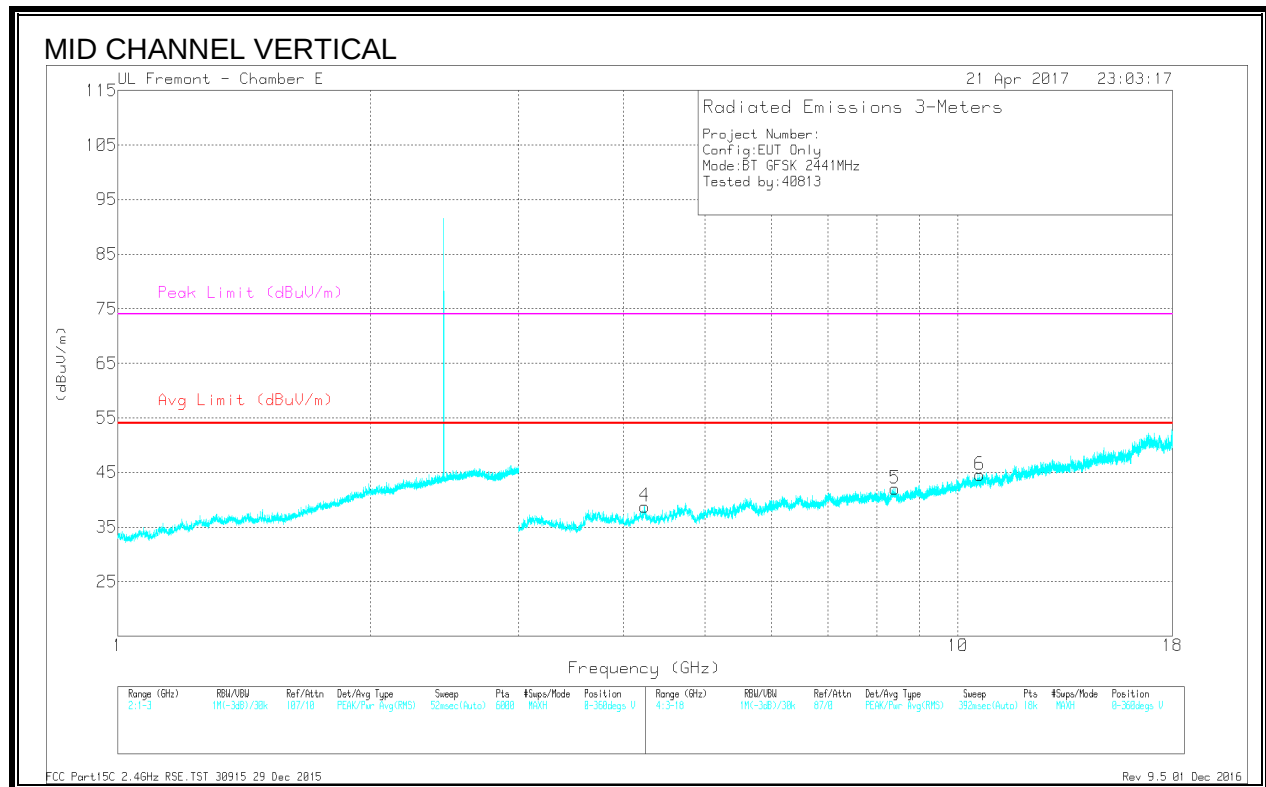
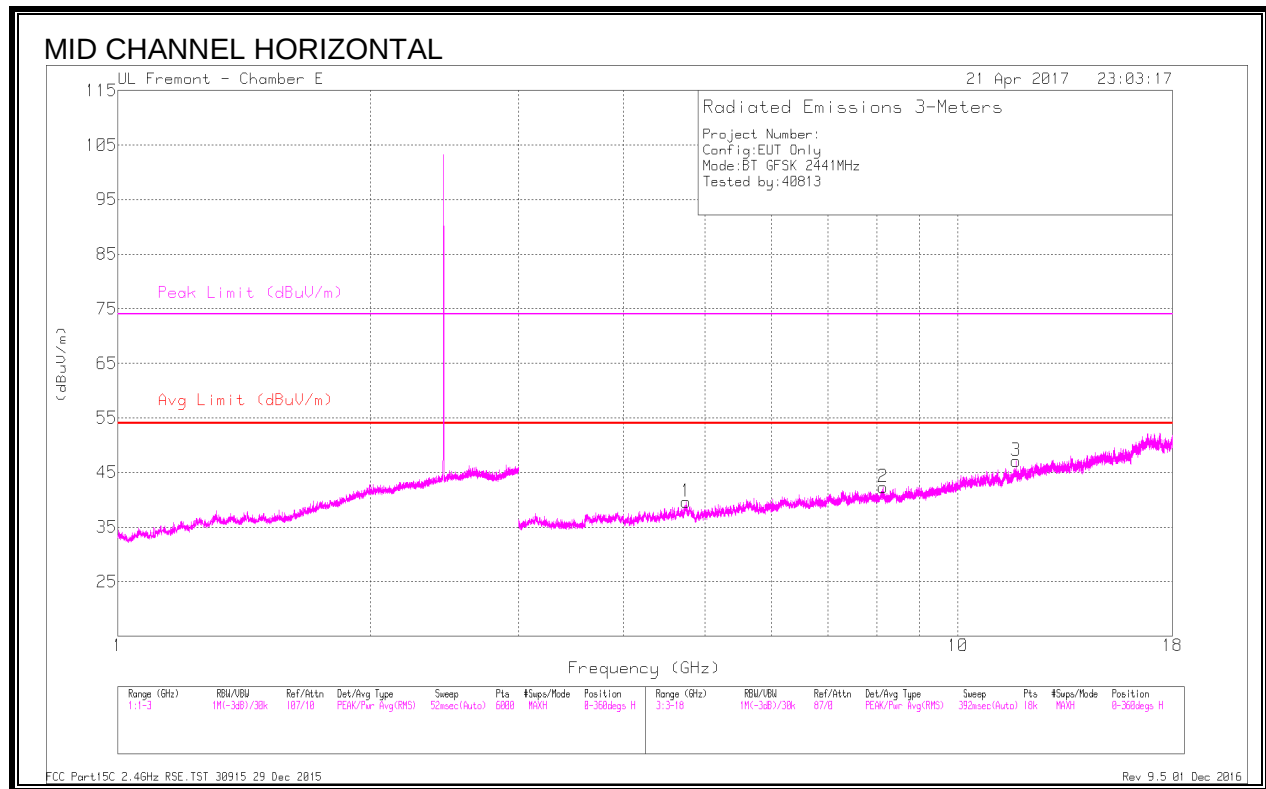


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Filt/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.628	40.66	PKFH	33	-30.2	43.46	-	-	74	-30.54	5	133	H
	* 3.629	28.71	VA1T	33.1	-30.2	31.61	54	-22.39	-	-	5	133	H
2	* 7.695	37.67	PKFH	36.1	-27.2	46.57	-	-	74	-27.43	340	127	H
	* 7.696	26.25	VA1T	36.1	-27.2	35.15	54	-18.85	-	-	340	127	H
3	* 11.031	37.35	PKFH	37.7	-23.5	51.55	-	-	74	-22.45	360	148	H
	* 11.032	24.34	VA1T	37.7	-23.5	38.54	54	-15.46	-	-	360	148	H
4	* 5.424	39.22	PKFH	35.1	-29.8	44.52	-	-	74	-29.48	253	211	V
	* 5.422	27.68	VA1T	35.1	-29.7	33.08	54	-20.92	-	-	253	211	V
5	* 8.352	37.13	PKFH	36.1	-25.9	47.33	-	-	74	-26.67	240	219	V
	* 8.35	25.69	VA1T	36.1	-26	35.79	54	-18.21	-	-	240	219	V
6	* 11.404	35.46	PKFH	38	-21.6	51.86	-	-	74	-22.14	195	128	V
	* 11.405	23.48	VA1T	38	-21.6	39.88	54	-14.12	-	-	195	128	V

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

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

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

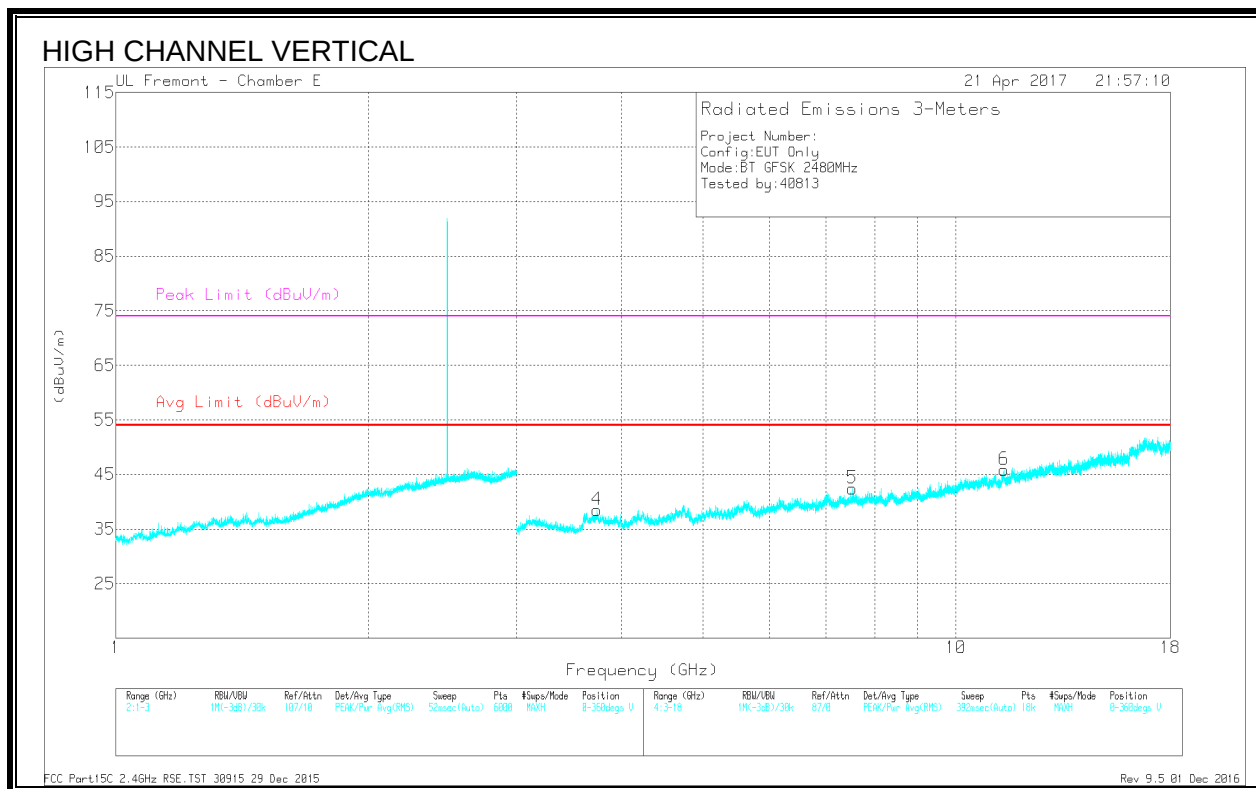
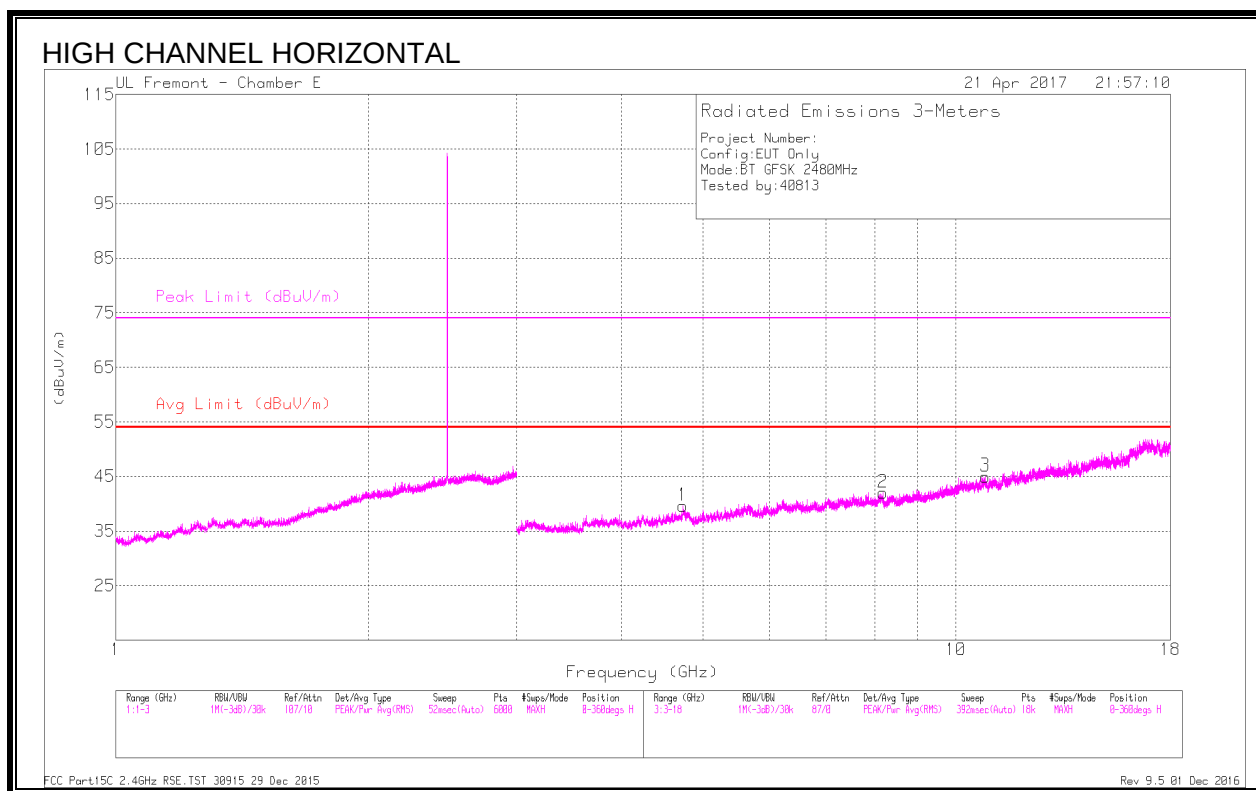


Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.747	39.97	PKFH	34.3	-29	45.27	-	-	74	-28.73	264	117	H
	* 4.746	28.04	VA1T	34.3	-29.1	33.24	54	-20.76	-	-	264	117	H
2	* 8.15	36.66	PKFH	36	-25.2	47.46	-	-	74	-26.54	206	212	H
	* 8.149	25.11	VA1T	36	-25.4	35.71	54	-18.29	-	-	206	212	H
3	* 11.726	35.84	PKFH	38.4	-22.4	51.84	-	-	74	-22.16	137	215	H
	* 11.727	23.87	VA1T	38.4	-22.5	39.77	54	-14.23	-	-	137	215	H
4	* 4.235	39.88	PKFH	33.5	-28.7	44.68	-	-	74	-29.32	271	224	V
	* 4.235	28.23	VA1T	33.5	-28.7	33.03	54	-20.97	-	-	271	224	V
5	* 8.421	38.78	PKFH	36	-25.3	49.48	-	-	74	-24.52	224	124	V
	* 8.421	25.22	VA1T	36	-25.3	35.92	54	-18.08	-	-	224	124	V
6	* 10.617	35.18	PKFH	37.6	-23.4	49.38	-	-	74	-24.62	222	212	V
	* 10.614	23.68	VA1T	37.6	-23.5	37.78	54	-16.22	-	-	222	212	V

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

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

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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 4.733	39.61	PKFH	34.3	-29.1	44.81	-	-	74	-29.19	101	216	H
	* 4.732	28.31	VA1T	34.3	-29	33.61	54	-20.39	-	-	101	216	H
2	* 8.183	38.09	PKFH	36	-26.2	47.89	-	-	74	-26.11	118	227	H
	* 8.185	25.74	VA1T	36	-26.2	35.54	54	-18.46	-	-	118	227	H
3	* 10.828	35.36	PKFH	37.6	-22.4	50.56	-	-	74	-23.44	79	126	H
	* 10.827	23.69	VA1T	37.6	-22.4	38.89	54	-15.11	-	-	79	126	H
4	* 3.74	40.38	PKFH	33.4	-29.8	43.98	-	-	74	-30.02	131	118	V
	* 3.74	29.17	VA1T	33.4	-29.8	32.77	54	-21.23	-	-	131	118	V
5	* 7.53	37.59	PKFH	36.1	-26.3	47.39	-	-	74	-26.61	323	110	V
	* 7.529	25.63	VA1T	36.1	-26.4	35.33	54	-18.67	-	-	323	110	V
6	* 11.4	34.86	PKFH	38	-21.6	51.26	-	-	74	-22.74	199	142	V
	* 11.399	23.5	VA1T	38	-21.6	39.9	54	-14.1	-	-	199	142	V

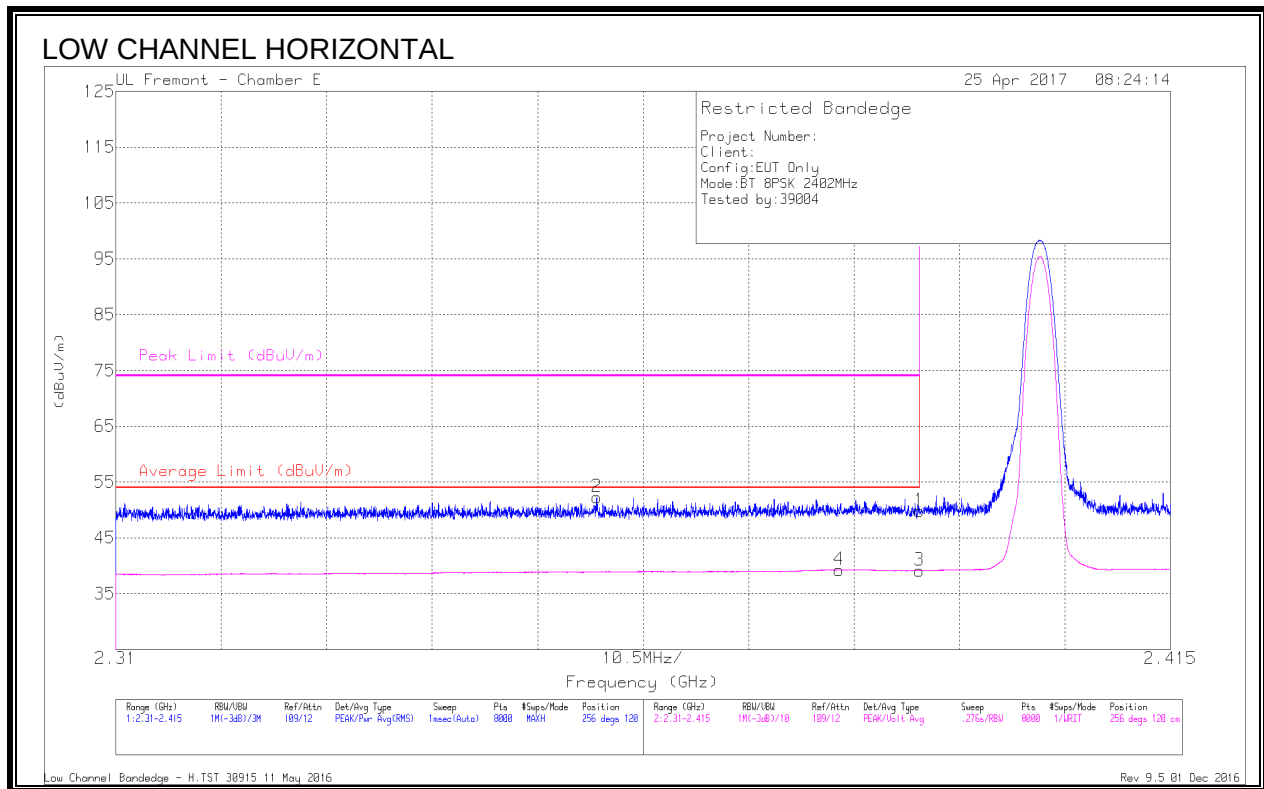
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

9.5. UAT 1, PLOW ENHANCED DATA RATE 8PSK MODULATION

9.5.1. RESTRICTED BANDEDGE (LOW CHANNEL)

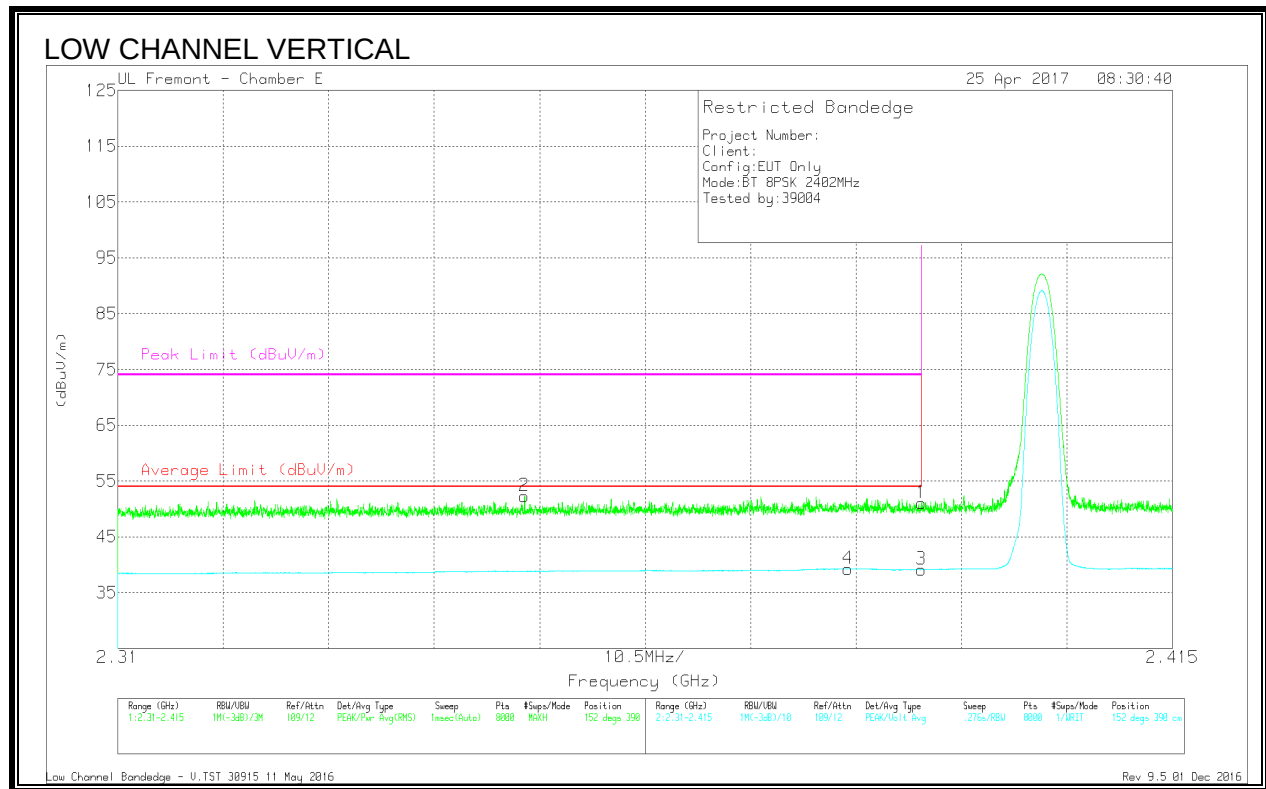


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.51	Pk	32	-19.7	49.81	-	-	74	-24.19	256	120	H
2	* 2.358	40.06	Pk	31.9	-19.7	52.26	-	-	74	-21.74	256	120	H
3	* 2.39	26.83	VA1T	32	-19.7	39.13	54	-14.87	-	-	256	120	H
4	* 2.382	26.78	VA1T	32	-19.5	39.28	54	-14.72	-	-	256	120	H

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

Pk - Peak detector

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



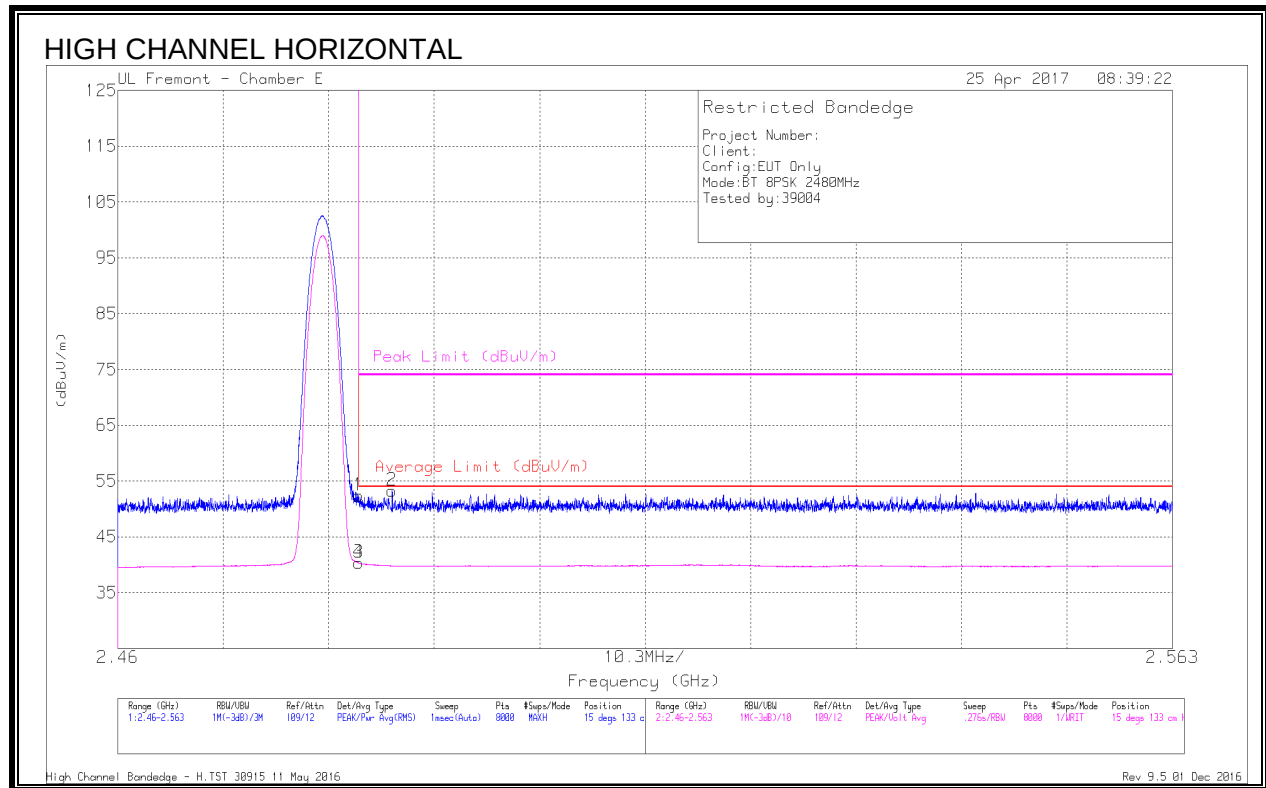
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/ m)	Average Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.7	Pk	32	-19.7	51	-	-	74	-23	152	390	V
2	* 2.35	40.15	Pk	31.9	-19.8	52.25	-	-	74	-21.75	152	390	V
3	* 2.39	26.82	VA1T	32	-19.7	39.12	54	-14.88	-	-	152	390	V
4	* 2.383	26.78	VA1T	32	-19.5	39.28	54	-14.72	-	-	152	390	V

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

Pk - Peak detector

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

9.5.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

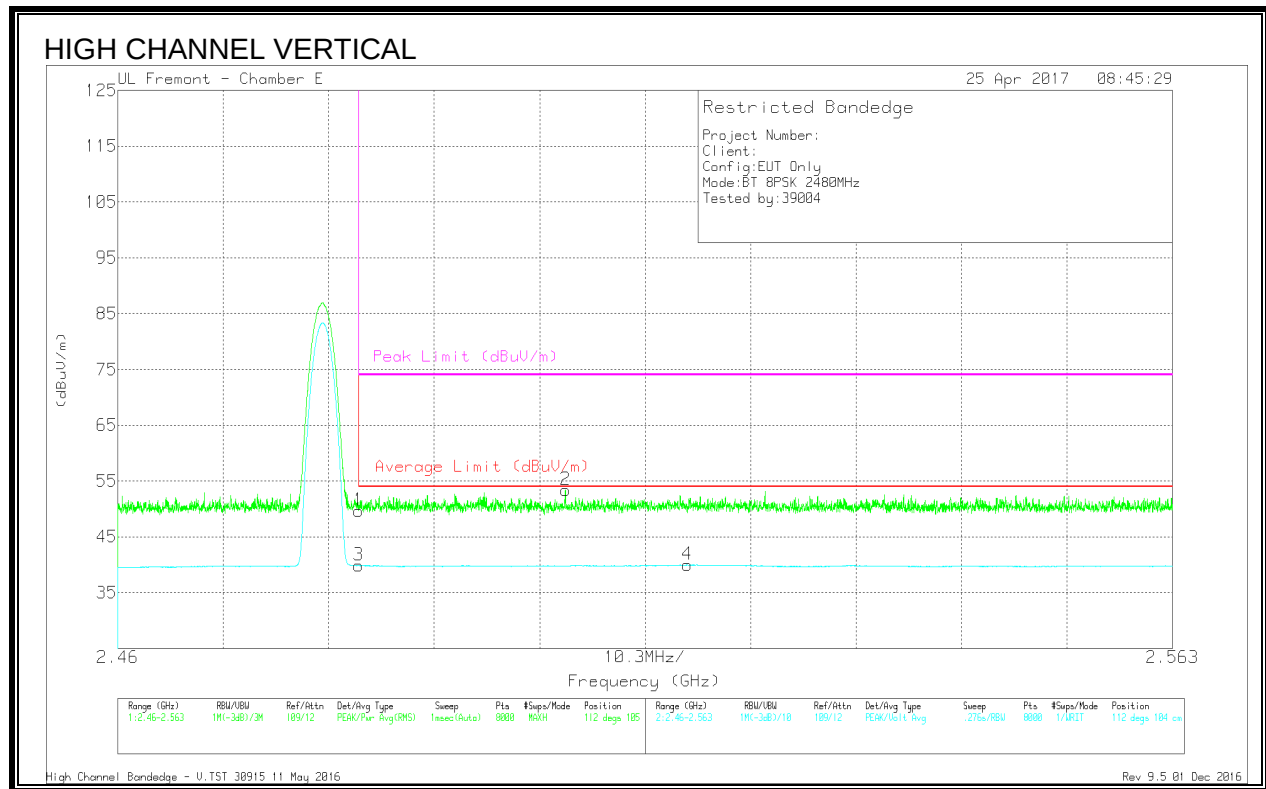


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.55	Pk	32.5	-19.7	52.35	-	-	74	-21.65	15	133	H
2	* 2.487	40.53	Pk	32.5	-19.8	53.23	-	-	74	-20.77	15	133	H
3	* 2.484	27.52	VA1T	32.5	-19.7	40.32	54	-13.68	-	-	15	133	H
4	* 2.484	27.51	VA1T	32.5	-19.7	40.31	54	-13.69	-	-	15	133	H

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

Pk - Peak detector

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



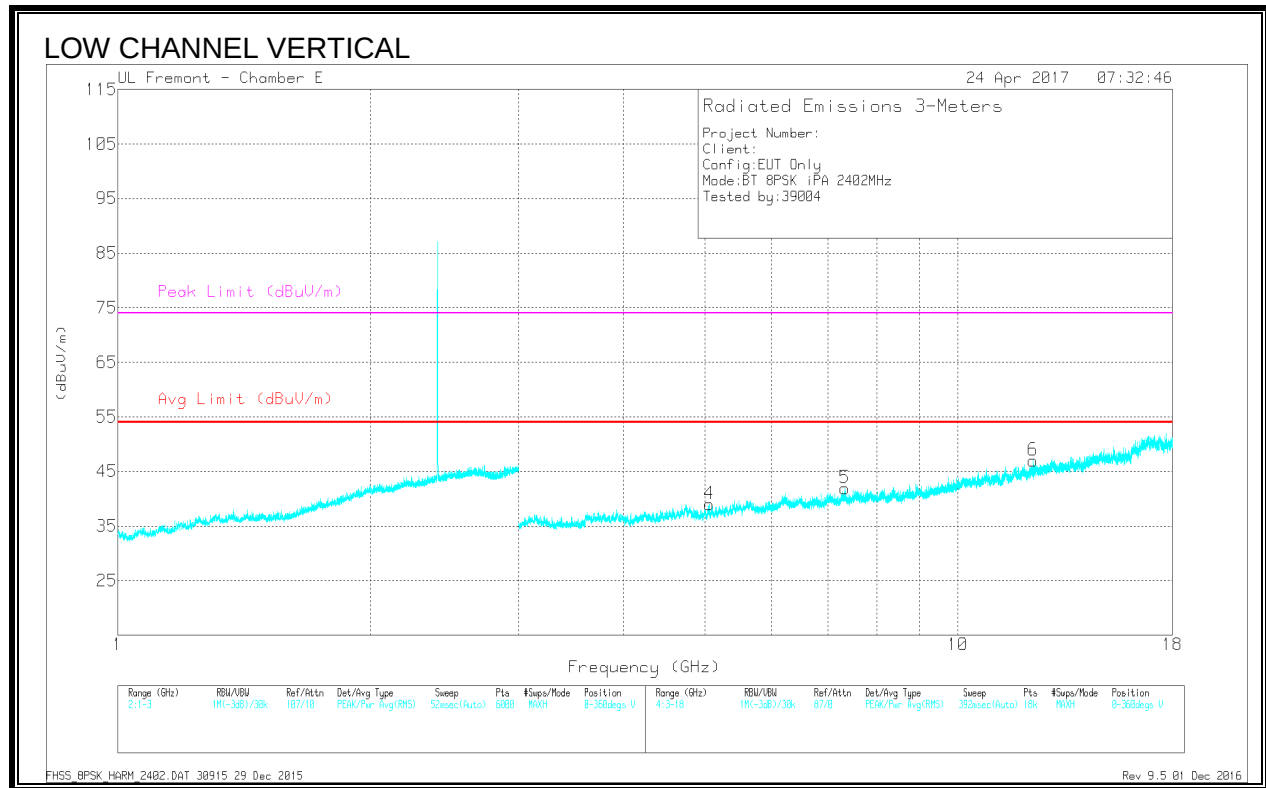
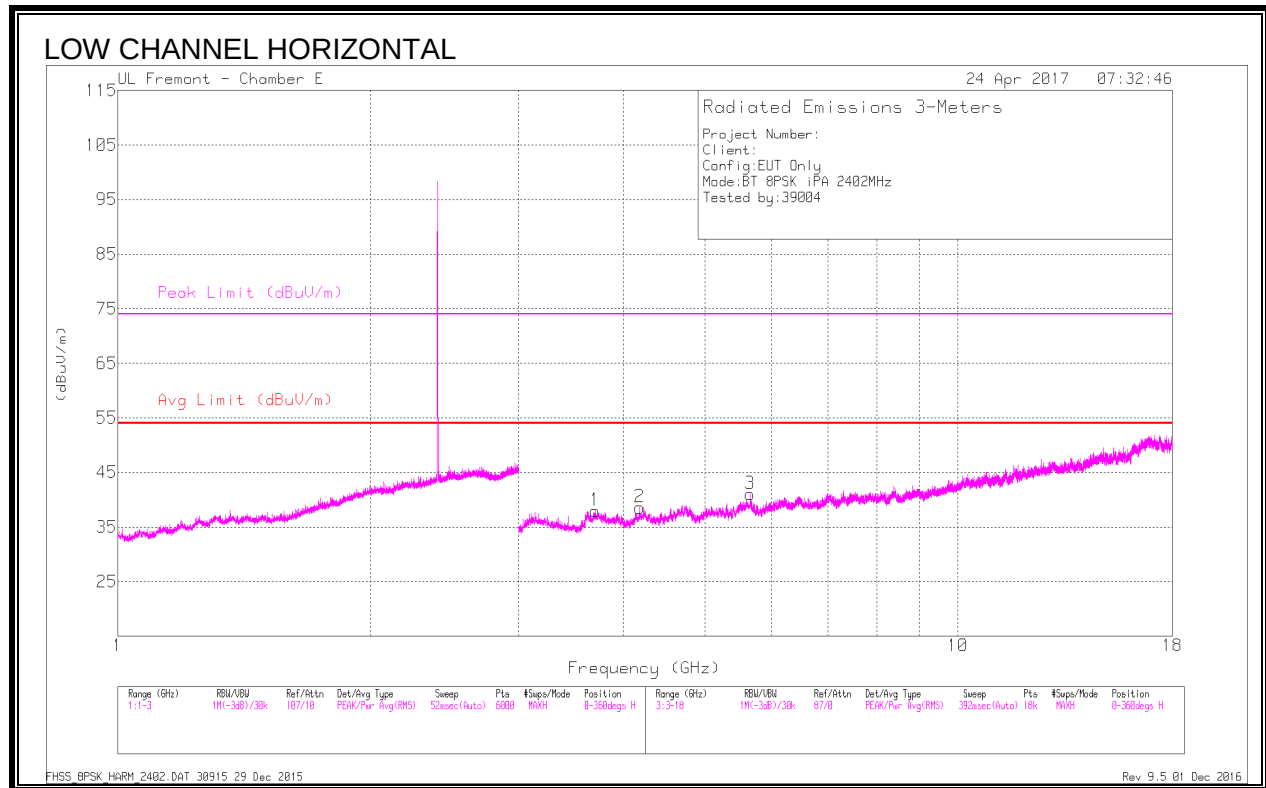
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.484	36.83	Pk	32.5	-19.7	49.63	-	-	74	-24.37	112	105	V
3	* 2.484	27.07	VA1T	32.5	-19.7	39.87	54	-14.13	-	-	112	104	V
2	2.504	40.64	Pk	32.6	-19.9	53.34	-	-	74	-20.66	112	105	V
4	2.516	27.06	VA1T	32.6	-19.7	39.96	54	-14.04	-	-	112	104	V

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

Pk - Peak detector

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

9.5.3. HARMONICS AND SPURIOUS EMISSIONS

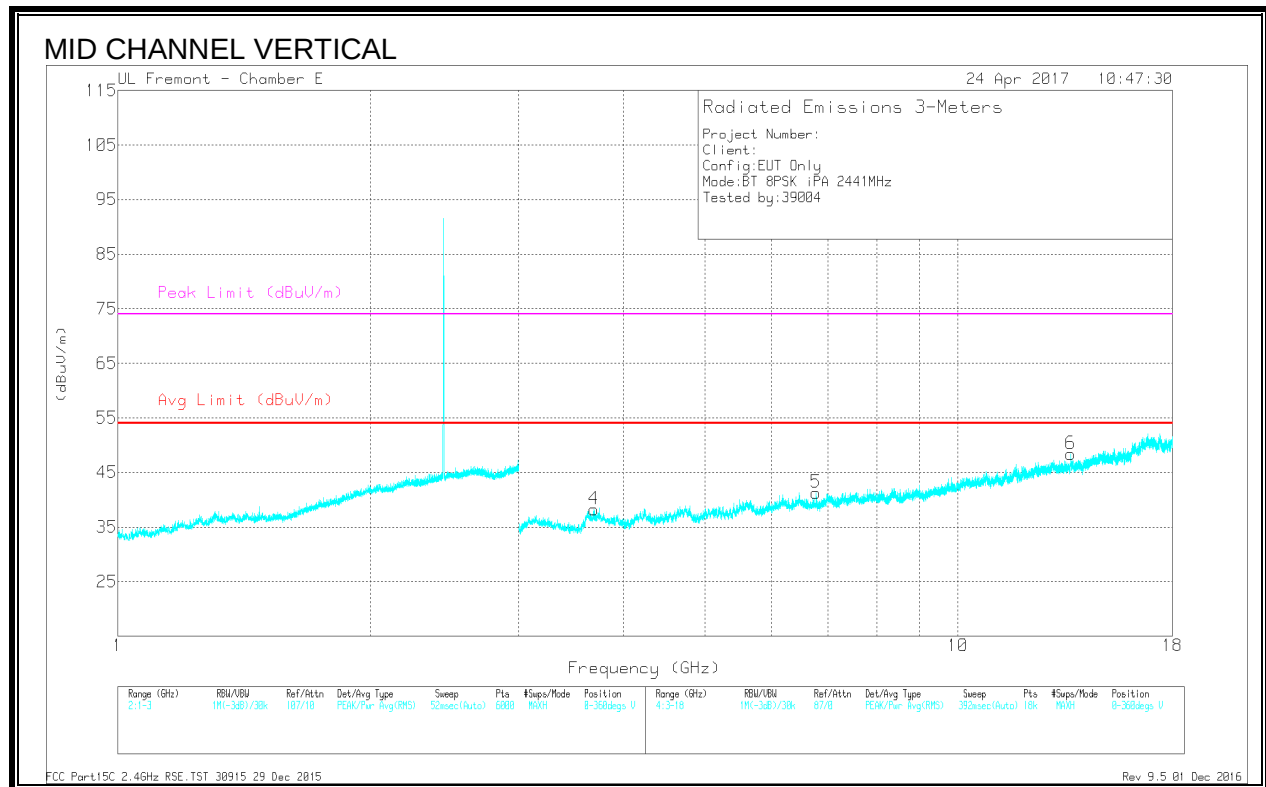
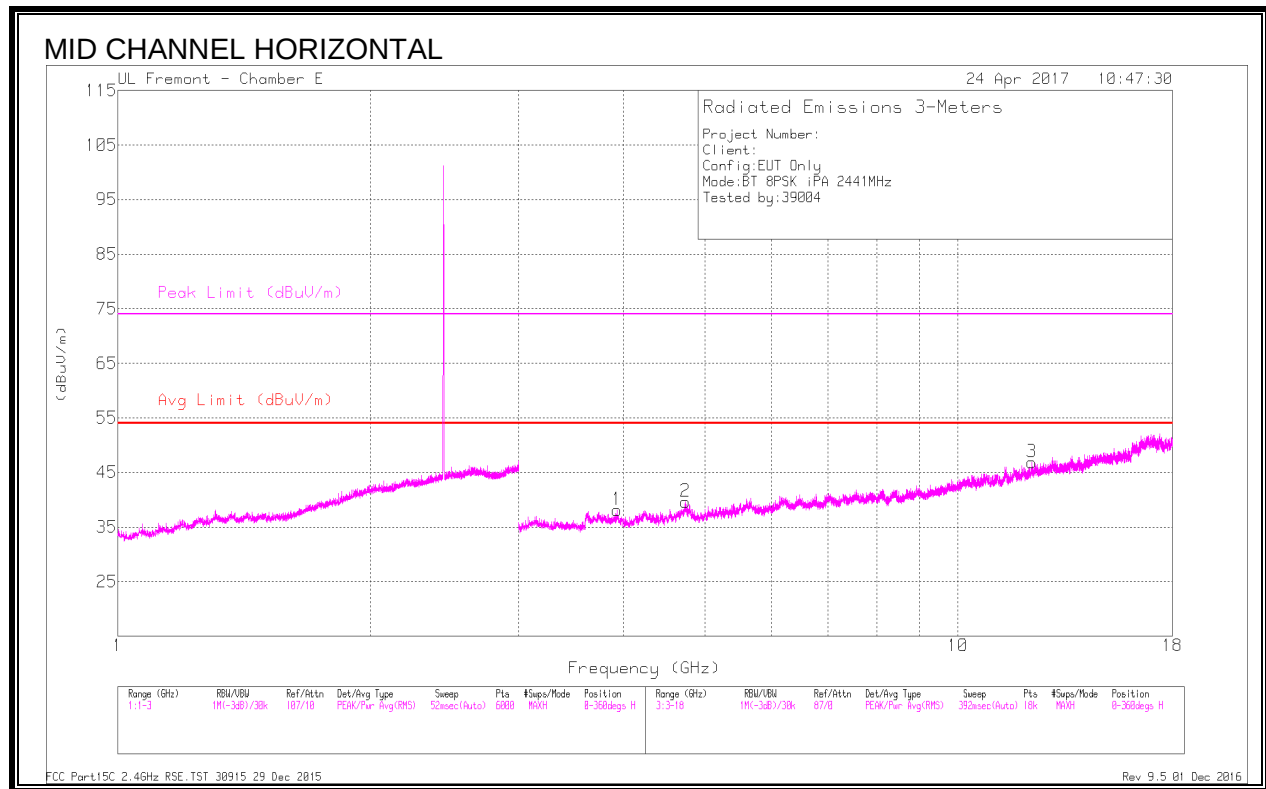


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.702	41.21	PKFH	33.4	-30.2	44.41	-	-	74	-29.59	109	209	H
	* 3.7	28.71	VA1T	33.4	-30.2	31.91	54	-22.09	-	-	109	209	H
2	* 4.181	41.41	PKFH	33.5	-30	44.91	-	-	74	-29.09	112	246	H
	* 4.181	29.07	VA1T	33.5	-30	32.57	54	-21.43	-	-	112	246	H
4	* 5.062	41	PKFH	34.3	-29.8	45.5	-	-	74	-28.5	98	215	V
	* 5.061	28.45	VA1T	34.3	-29.8	32.95	54	-21.05	-	-	98	215	V
5	* 7.337	38.01	PKFH	35.9	-26.5	47.41	-	-	74	-26.59	71	179	V
	* 7.34	25.79	VA1T	35.9	-26.5	35.19	54	-18.81	-	-	71	179	V
6	* 12.283	35.83	PKFH	39.2	-24.1	50.93	-	-	74	-23.07	52	230	V
	* 12.285	24.02	VA1T	39.2	-24.1	39.12	54	-14.88	-	-	52	230	V
3	5.659	40.06	PKFH	35.2	-28.3	46.96	-	-	-	-	64	122	H

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

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

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

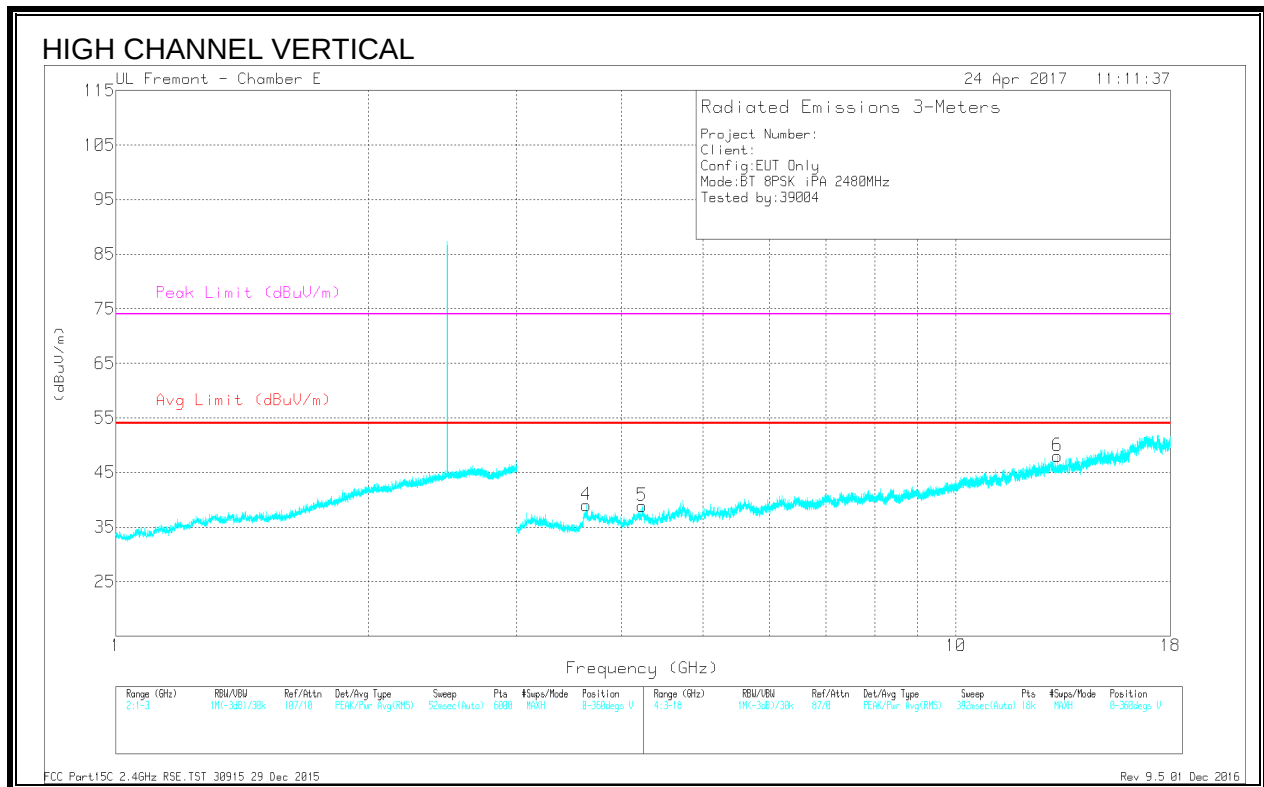
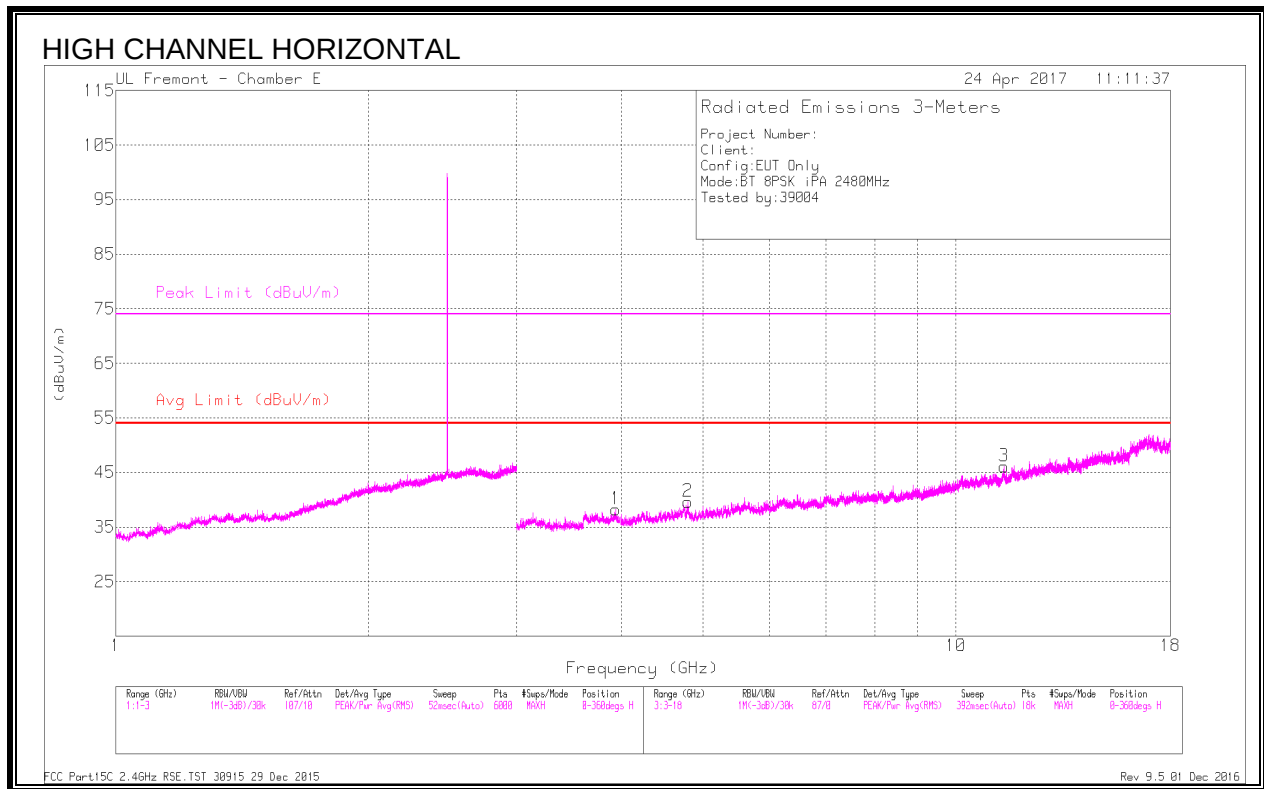


Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.927	40.3	PKFH	33.4	-29.6	44.1	-	-	74	-29.9	237	190	H
	* 3.927	28.35	VA1T	33.4	-29.6	32.15	54	-21.85	-	-	237	190	H
2	* 4.744	40.45	PKFH	34.3	-29	45.75	-	-	74	-28.25	242	252	H
	* 4.742	28.07	VA1T	34.3	-28.9	33.47	54	-20.53	-	-	242	252	H
3	* 12.243	36.68	PKFH	39.2	-23.1	52.78	-	-	74	-21.22	230	135	H
	* 12.241	24.17	VA1T	39.2	-23.2	40.17	54	-13.83	-	-	230	135	H
4	* 3.684	40.72	PKFH	33.4	-30.2	43.92	-	-	74	-30.08	185	144	V
	* 3.686	28.91	VA1T	33.4	-30.2	32.11	54	-21.89	-	-	185	144	V
5	6.781	37.31	PKFH	35.6	-27.1	45.81	-	-	-	-	177	215	V
6	13.627	37.82	PKFH	39.3	-23.5	53.62	-	-	-	-	150	133	V

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

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

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



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 3.937	39.99	PKFH	33.4	-29.3	44.09	-	-	74	-29.91	25	152	H
	* 3.937	28.3	VA1T	33.4	-29.3	32.4	54	-21.6	-	-	25	152	H
2	* 4.798	40.65	PKFH	34.2	-29.4	45.45	-	-	74	-28.55	47	236	H
	* 4.799	29.02	VA1T	34.2	-29.5	33.72	54	-20.28	-	-	47	236	H
3	* 11.409	35.38	PKFH	38	-21.7	51.68	-	-	74	-22.32	75	146	H
	* 11.41	23.36	VA1T	38	-21.7	39.66	54	-14.34	-	-	75	146	H
4	* 3.634	40.8	PKFH	33.1	-30.1	43.8	-	-	74	-30.2	68	118	V
	* 3.632	28.57	VA1T	33.1	-30.2	31.47	54	-22.53	-	-	68	118	V
5	* 4.235	39.91	PKFH	33.5	-28.7	44.71	-	-	74	-29.29	98	224	V
	* 4.233	28.24	VA1T	33.5	-28.8	32.94	54	-21.06	-	-	98	224	V
6	13.202	37.39	PKFH	39.6	-24.7	52.29	-	-	-	-	123	166	V

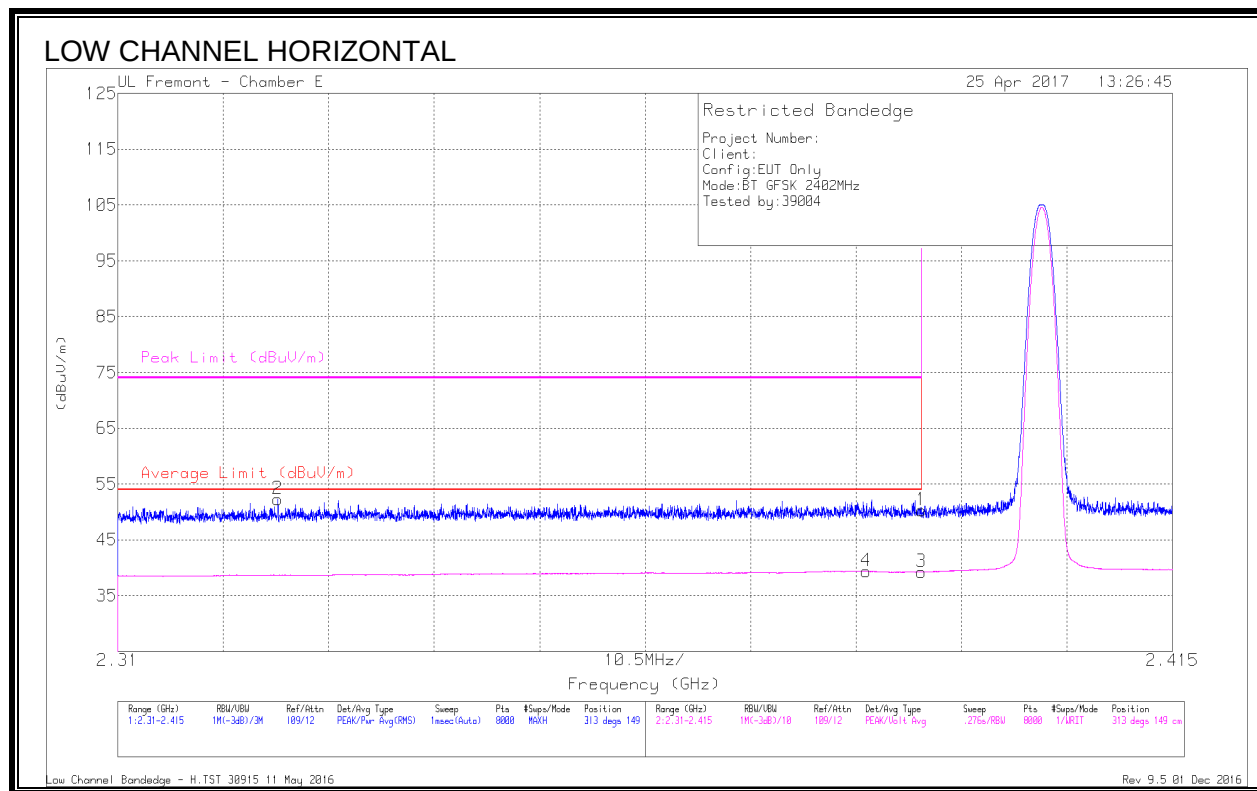
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

9.6. LAT 3, PMA3 BASIC DATA RATE GFSK MODULATION

9.6.1. RESTRICTED BANDEDGE (LOW CHANNEL)

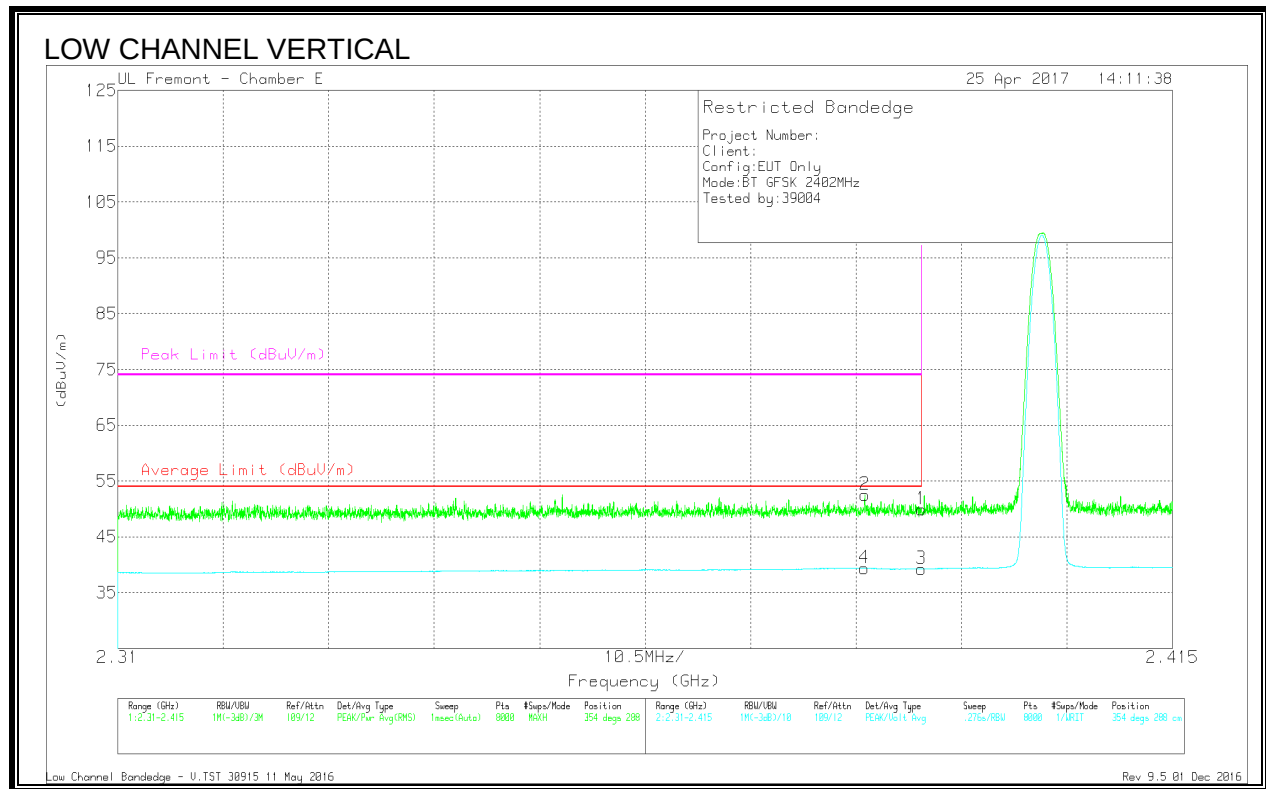


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.03	Pk	32	-19.7	50.33	-	-	74	-23.67	313	149	H
2	* 2.326	40.24	Pk	31.8	-19.8	52.24	-	-	74	-21.76	313	149	H
3	* 2.39	26.96	VA1T	32	-19.7	39.26	54	-14.74	-	-	313	149	H
4	* 2.384	26.9	VA1T	32	-19.5	39.4	54	-14.6	-	-	313	149	H

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

Pk - Peak detector

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



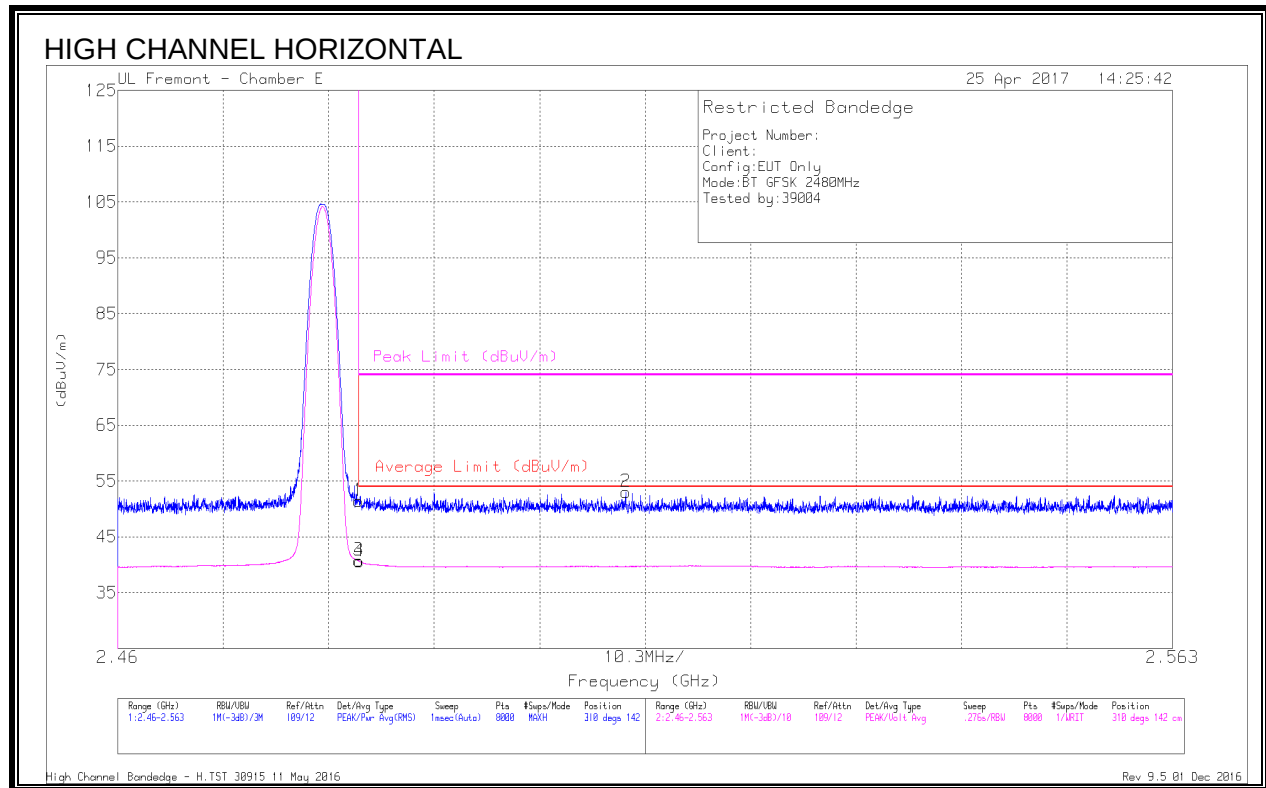
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.63	Pk	32	-19.7	49.93	-	-	74	-24.07	354	288	V
2	* 2.384	40.02	Pk	32	-19.5	52.52	-	-	74	-21.48	354	288	V
3	* 2.39	26.93	VA1T	32	-19.7	39.23	54	-14.77	-	-	354	288	V
4	* 2.384	26.92	VA1T	32	-19.5	39.42	54	-14.58	-	-	354	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

9.6.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

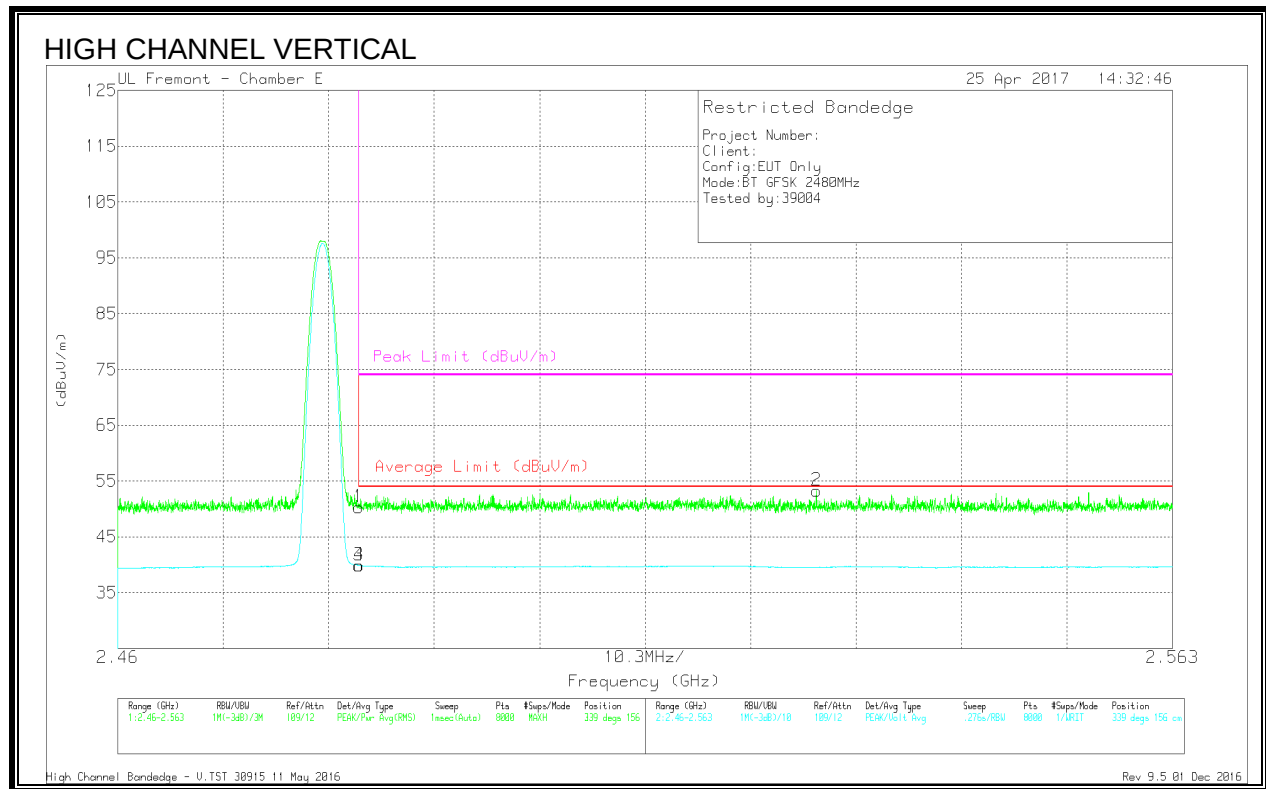


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.56	Pk	32.5	-19.7	51.36	-	-	74	-22.64	310	142	H
3	* 2.484	27.89	VA1T	32.5	-19.7	40.69	54	-13.31	-	-	310	142	H
4	* 2.484	27.79	VA1T	32.5	-19.7	40.59	54	-13.41	-	-	310	142	H
2	2.51	40.31	Pk	32.6	-19.9	53.01	-	-	74	-20.99	310	142	H

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

Pk - Peak detector

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



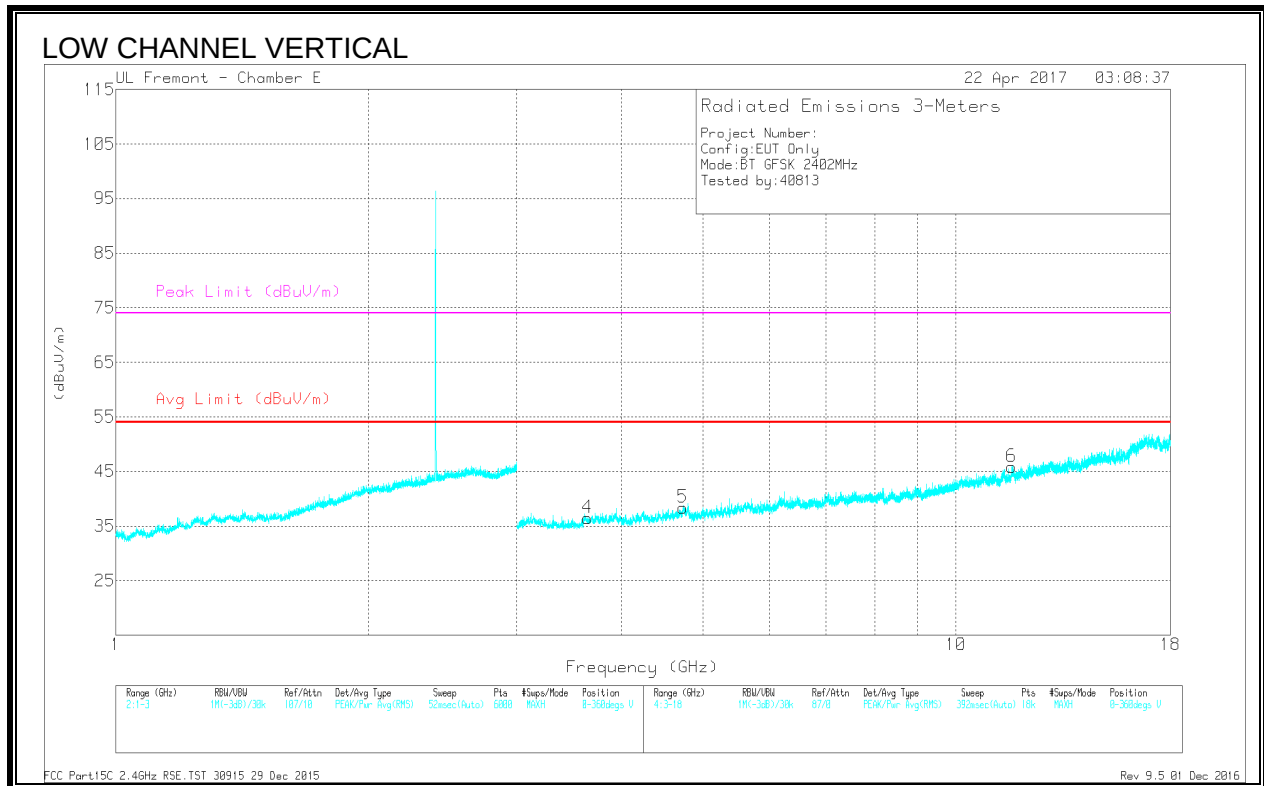
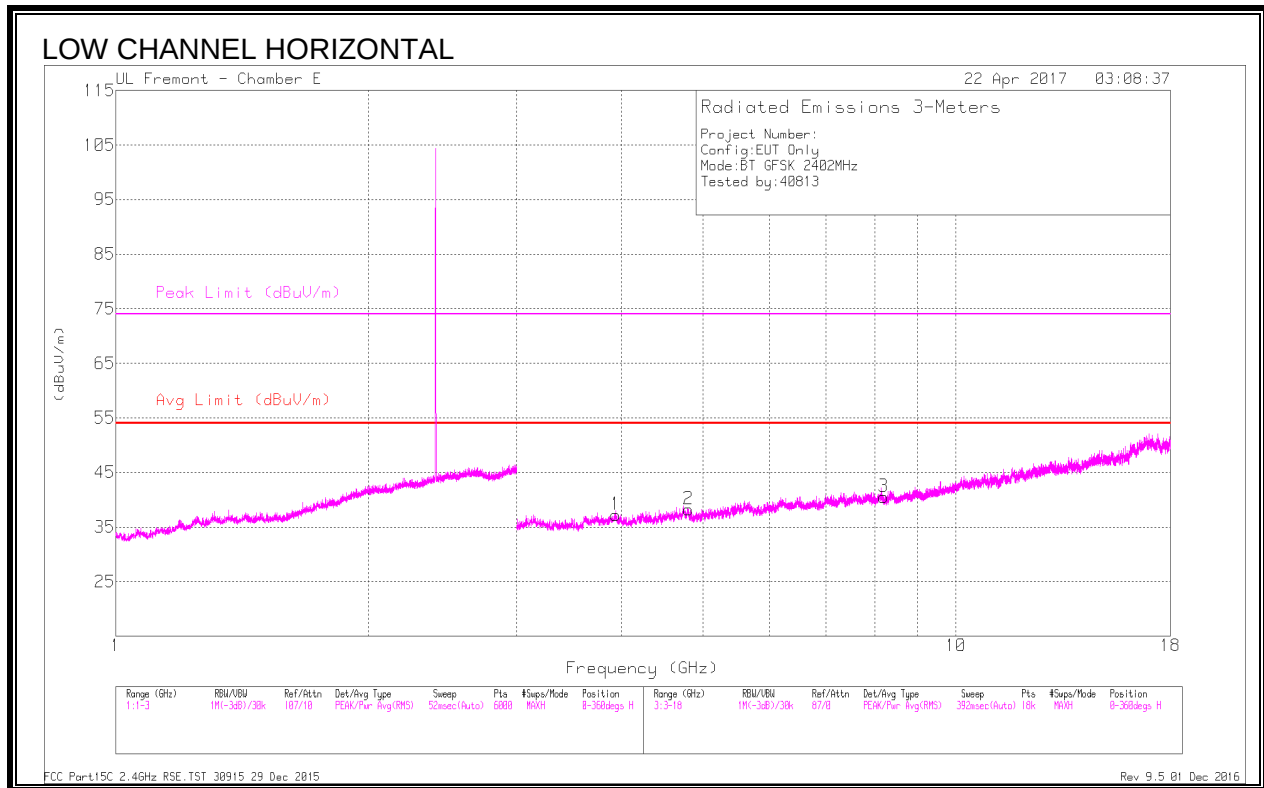
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.52	Pk	32.5	-19.7	50.32	-	-	74	-23.68	339	156	V
3	* 2.484	27.08	VA1T	32.5	-19.7	39.88	54	-14.12	-	-	339	156	V
4	* 2.484	27.1	VA1T	32.5	-19.7	39.9	54	-14.1	-	-	339	156	V
2	2.528	40.52	Pk	32.6	-19.9	53.22	-	-	74	-20.78	339	156	V

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

Pk - Peak detector

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

9.6.3. HARMONICS AND SPURIOUS EMISSIONS

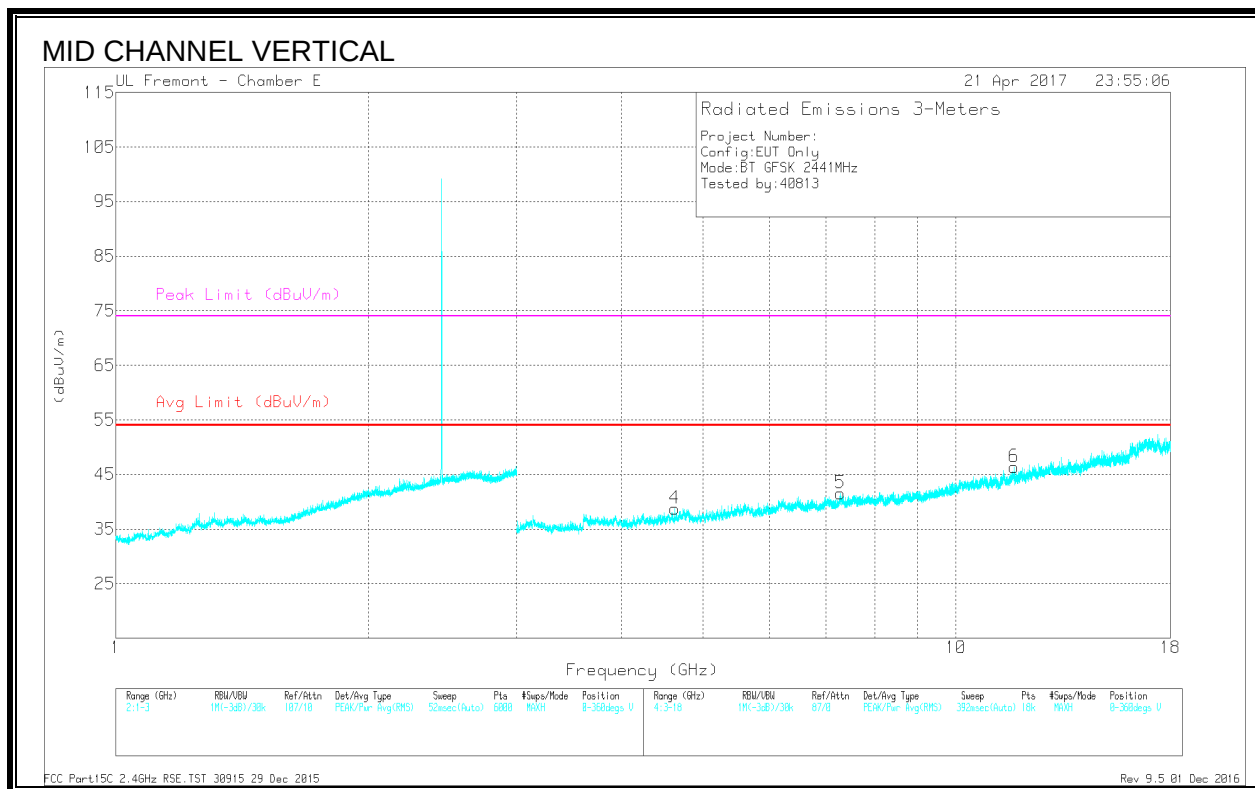
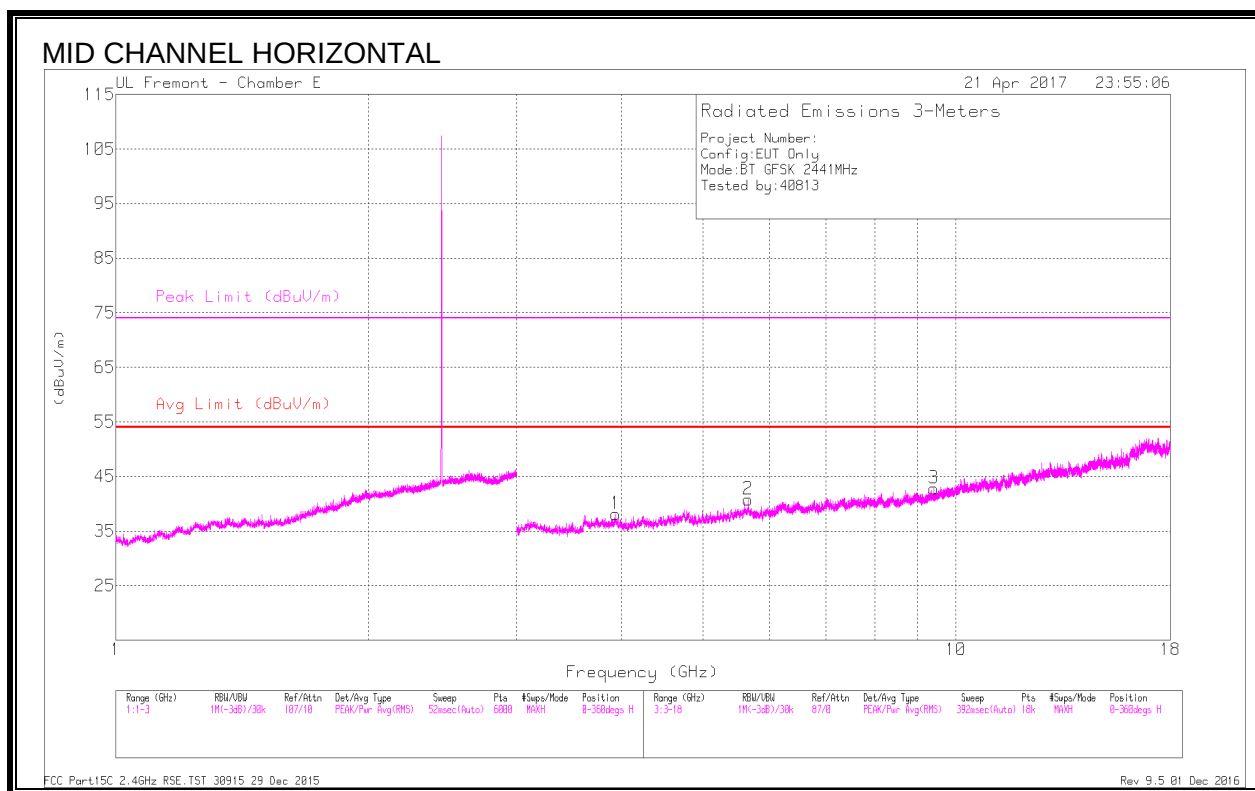


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.941	39.83	PKFH	33.4	-29.4	43.83	-	-	74	-30.17	86	384	H
	* 3.941	28.19	VA1T	33.4	-29.5	32.09	54	-21.91	-	-	86	384	H
2	* 4.807	39.93	PKFH	34.2	-29.6	44.53	-	-	74	-29.47	90	110	H
	* 4.808	28.52	VA1T	34.2	-29.6	33.12	54	-20.88	-	-	90	110	H
3	* 8.207	36.55	PKFH	36	-26.6	45.95	-	-	74	-28.05	86	111	H
	* 8.208	25.31	VA1T	36	-26.6	34.71	54	-19.29	-	-	86	111	H
4	* 3.642	39.85	PKFH	33.1	-30.2	42.75	-	-	74	-31.25	104	207	V
	* 3.642	28.24	VA1T	33.1	-30.2	31.14	54	-22.86	-	-	104	207	V
5	* 4.735	39.09	PKFH	34.3	-29.1	44.29	-	-	74	-29.71	95	122	V
	* 4.736	27.48	VA1T	34.3	-29	32.78	54	-21.22	-	-	95	122	V
6	* 11.653	35.42	PKFH	38.2	-22.5	51.12	-	-	74	-22.88	128	129	V
	* 11.651	23.87	VA1T	38.2	-22.6	39.47	54	-14.53	-	-	128	129	V

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

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

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

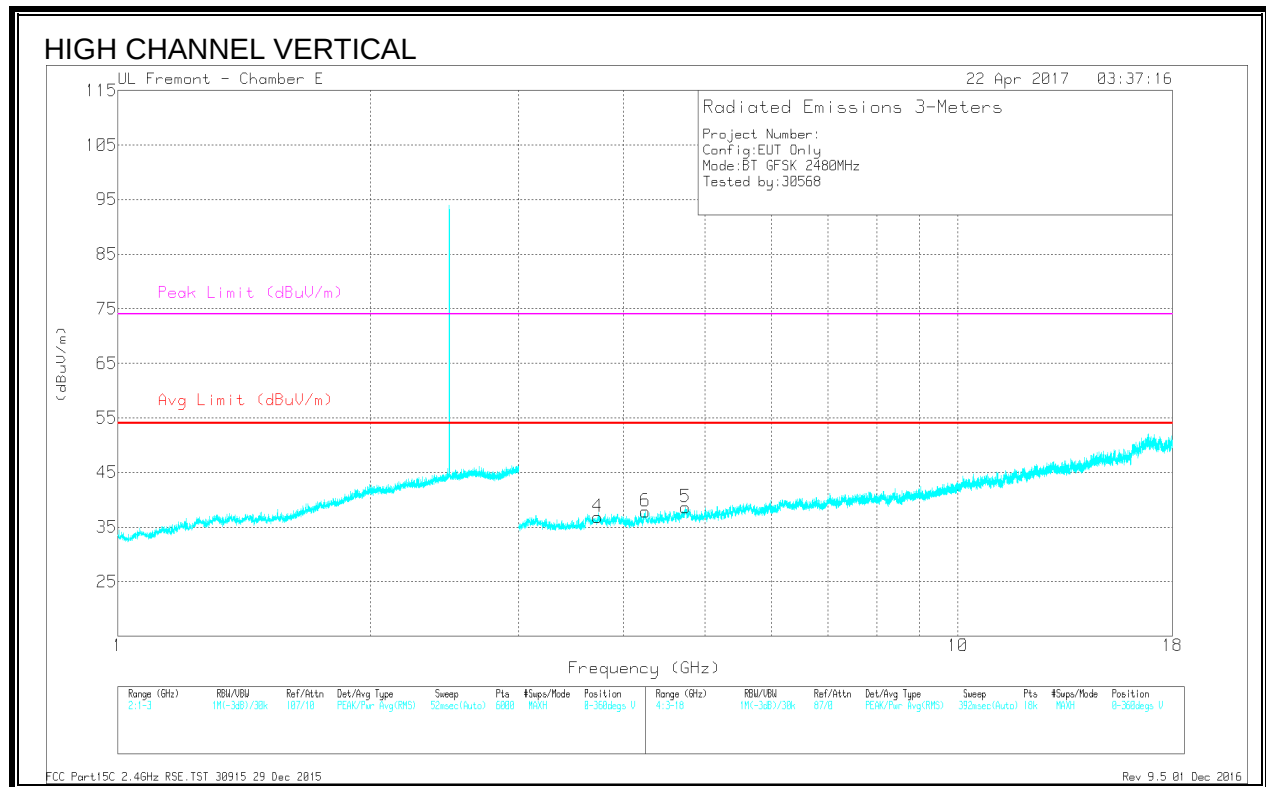
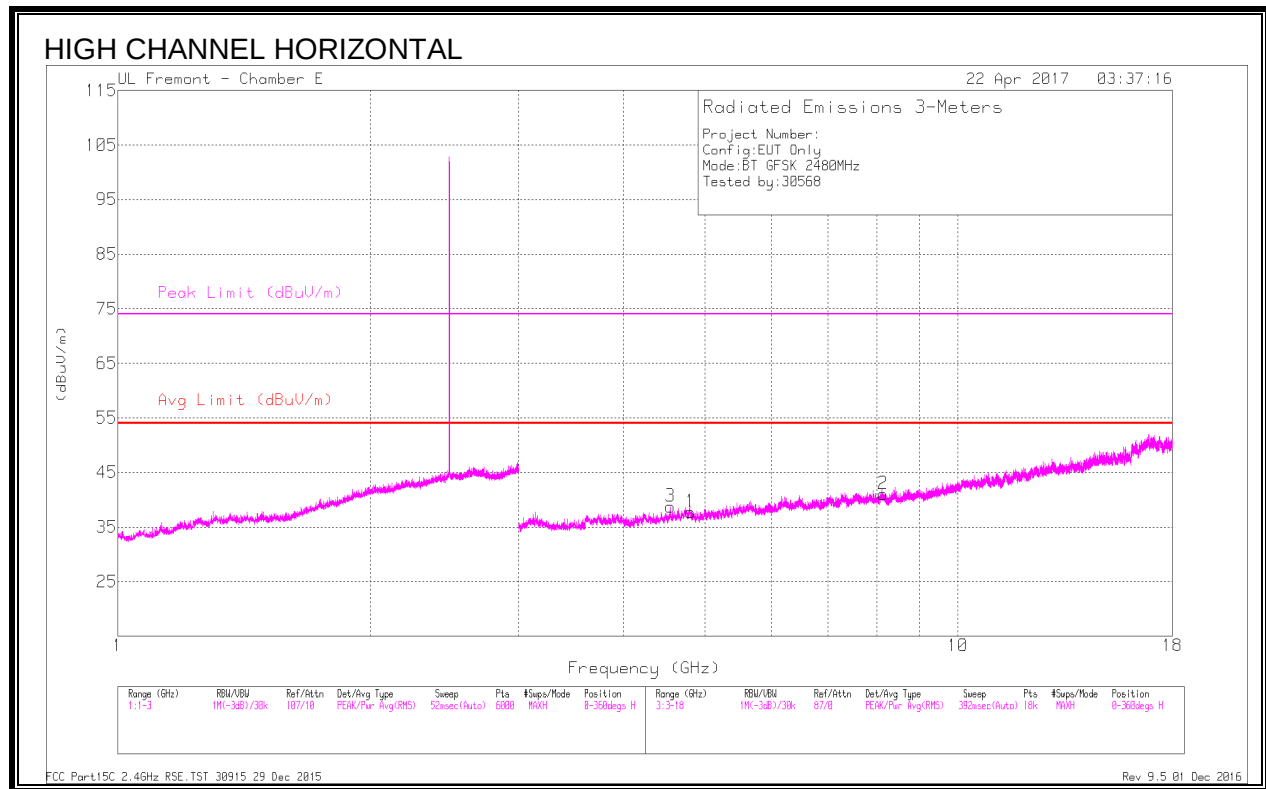


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Filt/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.936	40.66	PKFH	33.4	-29.3	44.76	-	-	74	-29.24	84	213	H
	* 3.938	28.23	VA1T	33.4	-29.3	32.33	54	-21.67	-	-	84	213	H
2	* 9.41	36.52	PKFH	36.5	-25.5	47.52	-	-	74	-26.48	86	190	H
	* 9.411	24.9	VA1T	36.5	-25.5	35.9	54	-18.1	-	-	86	190	H
4	* 4.626	41.14	PKFH	34.2	-30.5	44.84	-	-	74	-29.16	102	140	V
	* 4.626	28.77	VA1T	34.2	-30.5	32.47	54	-21.53	-	-	102	140	V
5	* 7.29	36.88	PKFH	35.9	-26.3	46.48	-	-	74	-27.52	130	184	V
	* 7.291	25.77	VA1T	35.9	-26.3	35.37	54	-18.63	-	-	130	184	V
6	* 11.731	35.39	PKFH	38.4	-22.8	50.99	-	-	74	-23.01	96	116	V
	* 11.732	23.9	VA1T	38.4	-22.8	39.5	54	-14.5	-	-	96	116	V
3	5.656	39.36	PKFH	35.2	-28.3	46.26	-	-	-	-	90	127	H
	5.659	27.54	VA1T	35.2	-28.2	34.54	-	-	-	-	90	127	H

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

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

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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 4.805	40.18	PKFH	34.2	-29.6	44.78	-	-	74	-29.22	50	393	H
	* 4.805	28.49	VA1T	34.2	-29.6	33.09	54	-20.91	-	-	50	393	H
2	* 8.147	36.59	PKFH	36	-25.6	46.99	-	-	74	-27.01	79	181	H
	* 8.15	24.96	VA1T	36	-25.1	35.86	54	-18.14	-	-	79	181	H
3	* 4.549	39.96	PKFH	34.1	-29.3	44.76	-	-	74	-29.24	88	259	H
	* 4.549	27.89	VA1T	34.1	-29.3	32.69	54	-21.31	-	-	88	259	H
4	* 3.726	40.28	PKFH	33.4	-30	43.68	-	-	74	-30.32	277	123	V
	* 3.727	28.58	VA1T	33.4	-29.9	32.08	54	-21.92	-	-	277	123	V
5	* 4.743	39.8	PKFH	34.3	-29	45.1	-	-	74	-28.9	266	171	V
	* 4.742	27.9	VA1T	34.3	-28.9	33.3	54	-20.7	-	-	266	171	V
6	* 4.241	39.14	PKFH	33.5	-28.6	44.04	-	-	74	-29.96	277	165	V
	* 4.244	27.59	VA1T	33.5	-28.6	32.49	54	-21.51	-	-	277	165	V

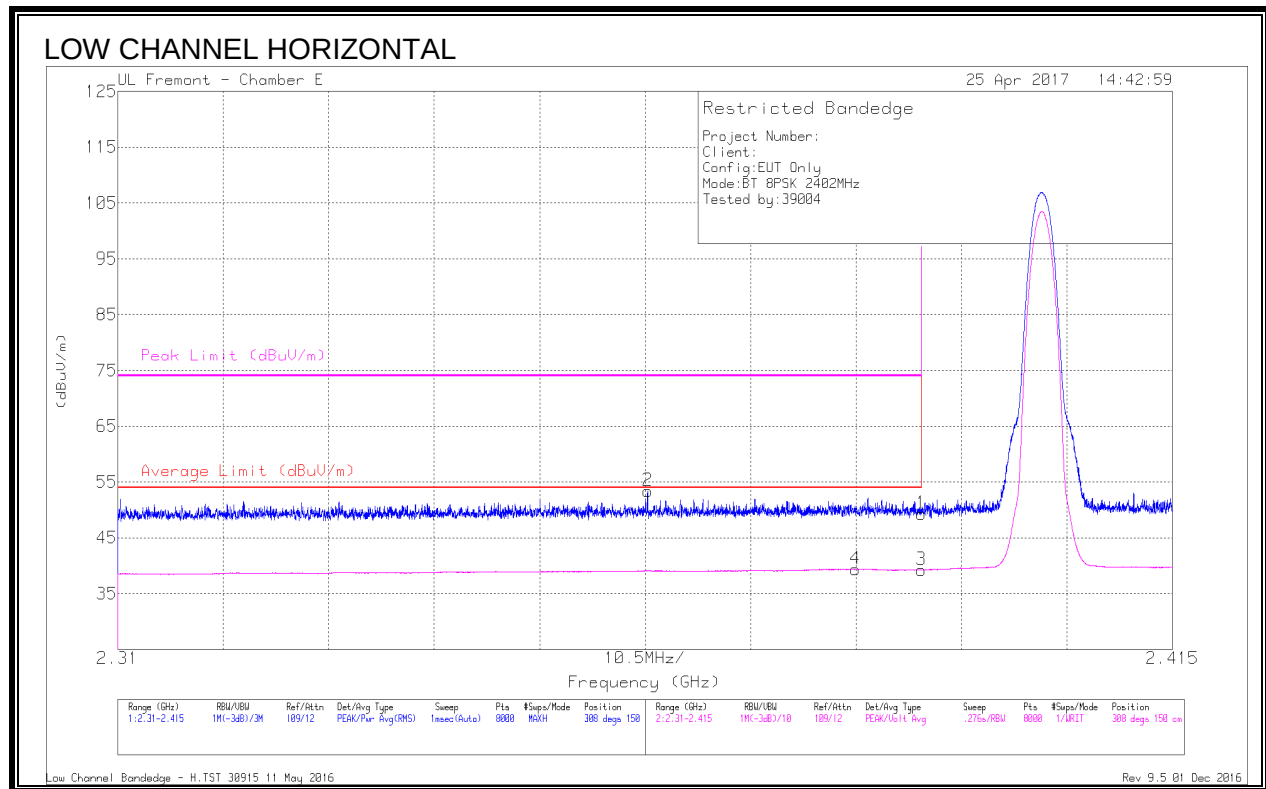
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

9.7. LAT 3, PMAx ENHANCED DATA RATE 8PSK MODULATION

9.7.1. RESTRICTED BANDEDGE (LOW CHANNEL)

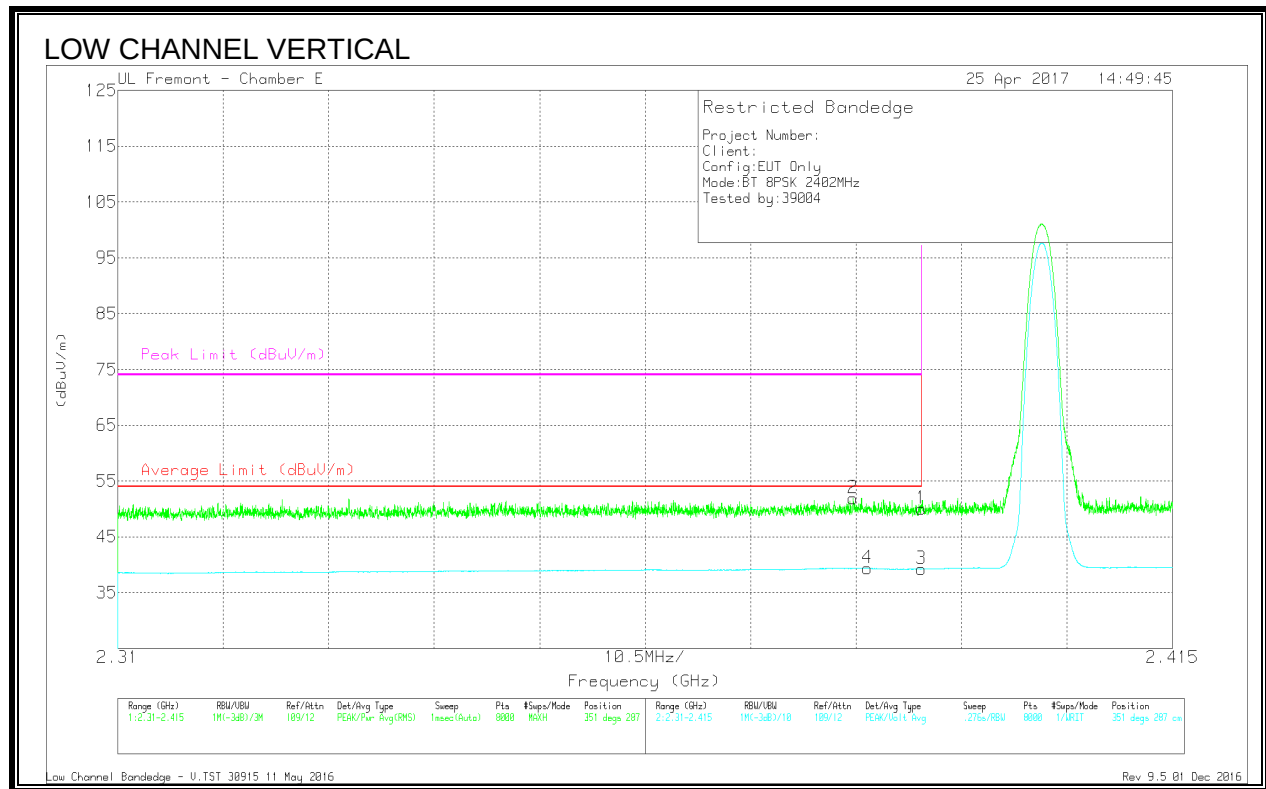


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37	Pk	32	-19.7	49.3	-	-	74	-24.7	308	150	H
2	* 2.363	41.19	Pk	31.9	-19.7	53.39	-	-	74	-20.61	308	150	H
3	* 2.39	26.95	VA1T	32	-19.7	39.25	54	-14.75	-	-	308	150	H
4	* 2.383	26.89	VA1T	32	-19.5	39.39	54	-14.61	-	-	308	150	H

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

Pk - Peak detector

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



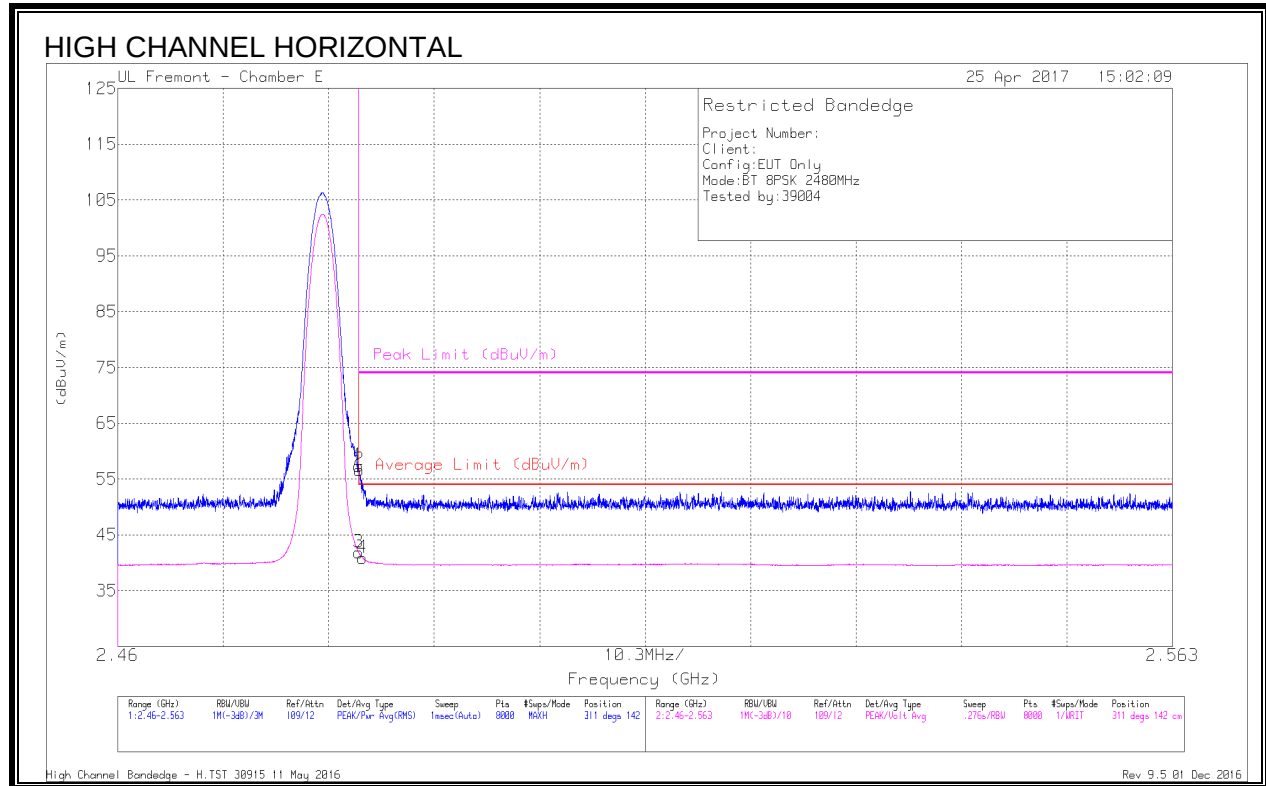
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.75	Pk	32	-19.7	50.05	-	-	74	-23.95	351	287	V
2	* 2.383	39.43	Pk	32	-19.5	51.93	-	-	74	-22.07	351	287	V
3	* 2.39	26.89	VA1T	32	-19.7	39.19	54	-14.81	-	-	351	287	V
4	* 2.385	26.9	VA1T	32	-19.5	39.4	54	-14.6	-	-	351	287	V

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

Pk - Peak detector

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

9.7.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

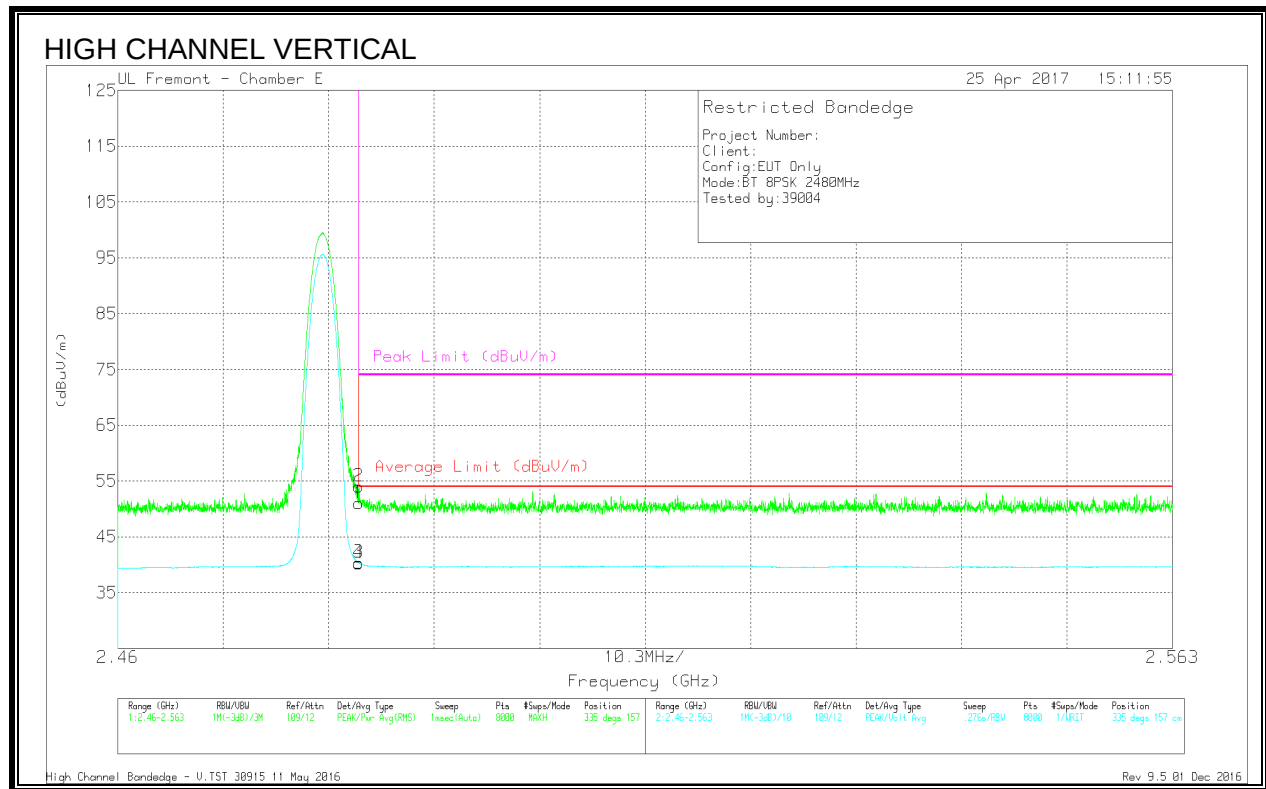


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.61	Pk	32.5	-19.7	57.41	-	-	74	-16.59	311	142	H
2	* 2.484	43.79	Pk	32.5	-19.7	56.59	-	-	74	-17.41	311	142	H
3	* 2.484	29.09	VA1T	32.5	-19.7	41.89	54	-12.11	-	-	311	142	H
4	* 2.484	28.05	VA1T	32.5	-19.7	40.85	54	-13.15	-	-	311	142	H

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

Pk - Peak detector

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



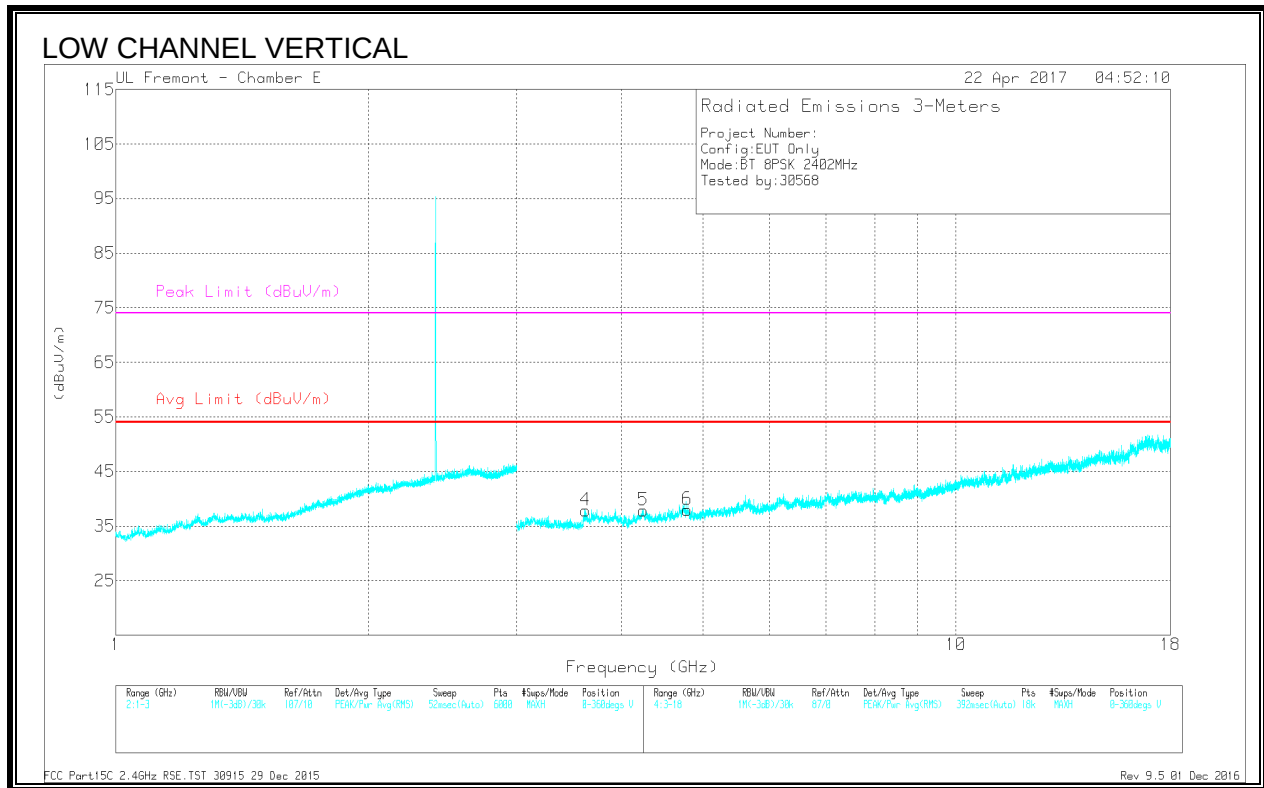
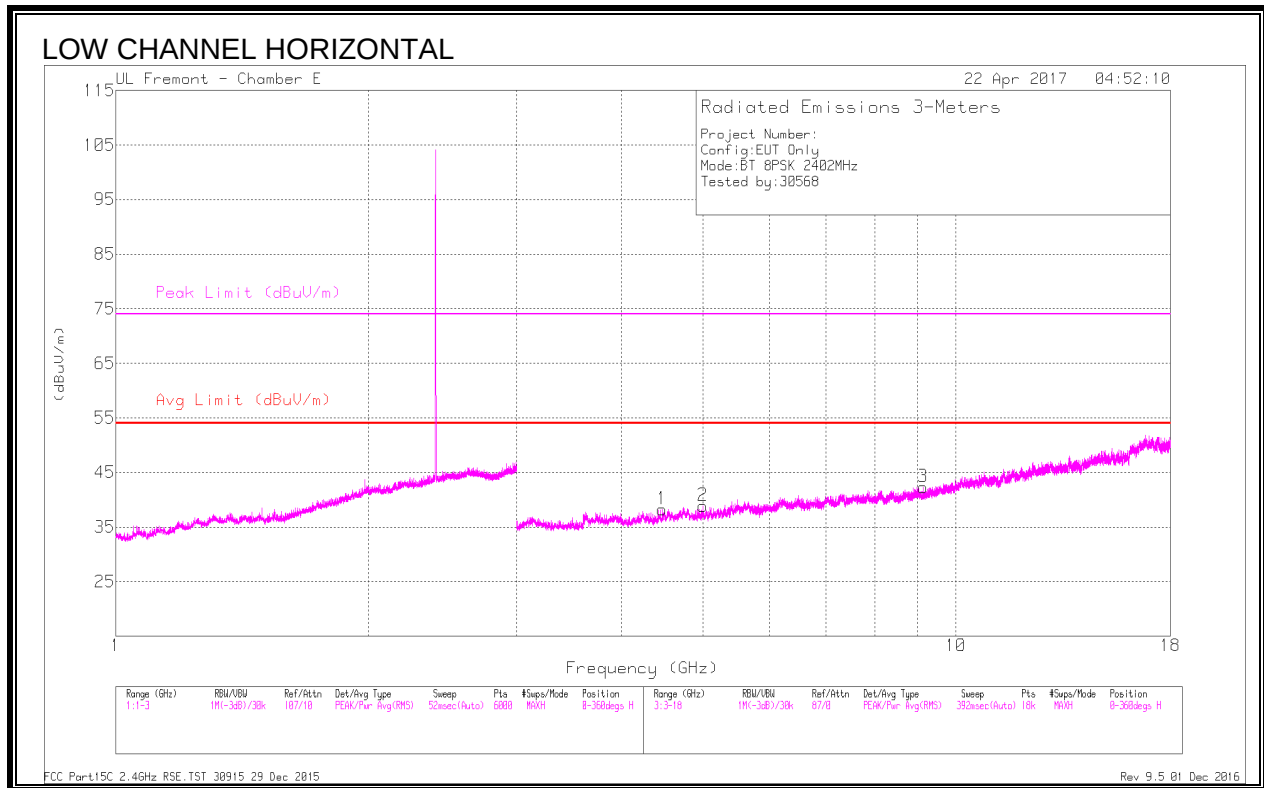
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.484	38.18	Pk	32.5	-19.7	50.98	-	-	74	-23.02	335	157	V
2	* 2.484	41.19	Pk	32.5	-19.7	53.99	-	-	74	-20.01	335	157	V
3	* 2.484	27.52	VA1T	32.5	-19.7	40.32	54	-13.68	-	-	335	157	V
4	* 2.484	27.49	VA1T	32.5	-19.7	40.29	54	-13.71	-	-	335	157	V

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

Pk - Peak detector

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

9.7.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.997	40.12	PKFH	34.3	-30.1	44.32	-	-	74	-29.68	4	116	H
	* 4.999	28.34	VA1T	34.3	-29.9	32.74	54	-21.26	-	-	4	116	H
3	* 9.149	37.6	PKFH	36.3	-25.9	48	-	-	74	-26	3	123	H
	* 9.145	25.21	VA1T	36.3	-26	35.51	54	-18.49	-	-	3	123	H
4	* 3.624	40.37	PKFH	33	-30.2	43.17	-	-	74	-30.83	131	219	V
	* 3.625	28.73	VA1T	33	-30.2	31.53	54	-22.47	-	-	131	219	V
5	* 4.246	40.75	PKFH	33.5	-28.6	45.65	-	-	74	-28.35	137	244	V
	* 4.246	28.07	VA1T	33.5	-28.6	32.97	54	-21.03	-	-	137	244	V
6	* 4.791	41.16	PKFH	34.2	-29.7	45.66	-	-	74	-28.34	148	127	V
	* 4.791	28.85	VA1T	34.2	-29.7	33.35	54	-20.65	-	-	148	127	V
1	4.473	39.99	PKFH	33.9	-30.1	43.79	-	-	-	-	4	302	H

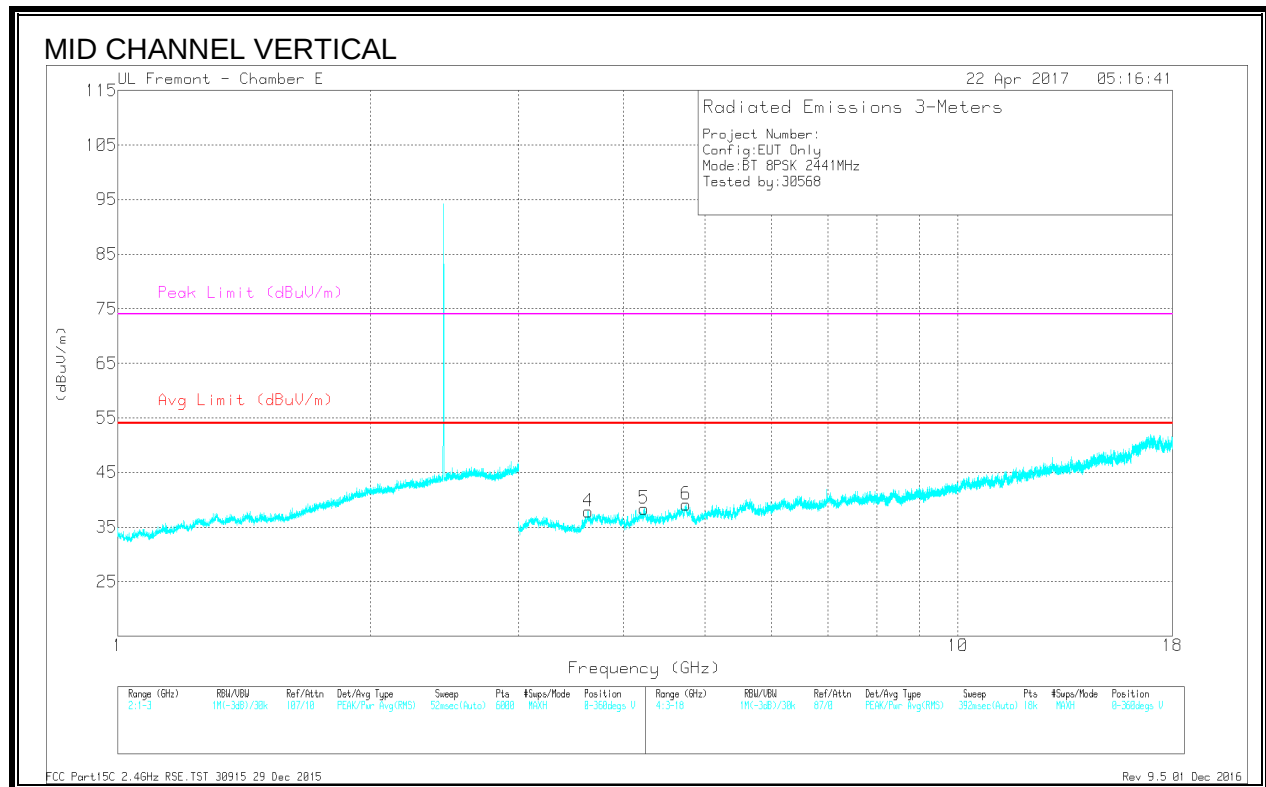
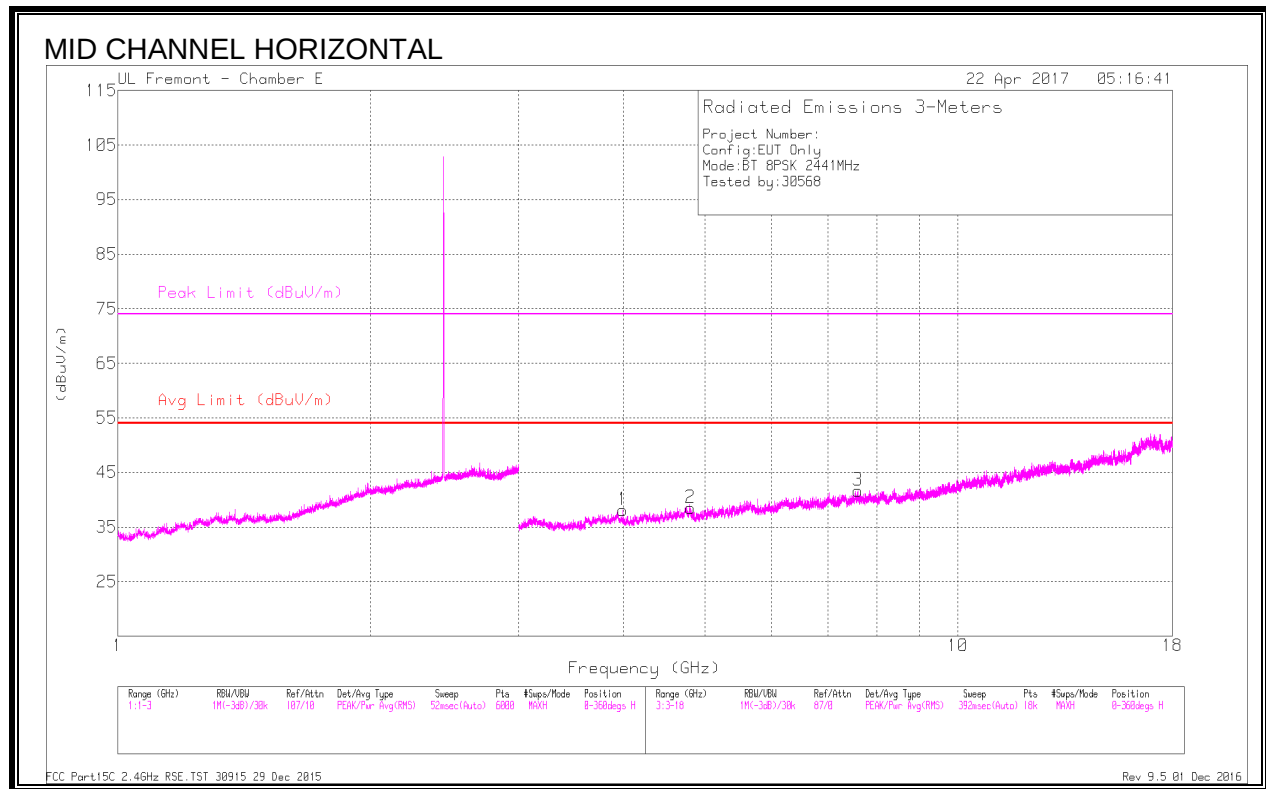
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 3.986	38.92	PKFH	33.3	-29.4	42.82	-	-	74	-31.18	288	239	H
	* 3.988	27.85	VA1T	33.3	-29.5	31.65	54	-22.35	-	-	288	239	H
2	* 4.805	40.71	PKFH	34.2	-29.6	45.31	-	-	74	-28.69	290	239	H
	* 4.806	28.9	VA1T	34.2	-29.6	33.5	54	-20.5	-	-	290	239	H
3	* 7.602	36.86	PKFH	36.1	-26	46.96	-	-	74	-27.04	293	234	H
	* 7.603	25.22	VA1T	36.1	-26	35.32	54	-18.68	-	-	293	234	H
4	* 3.627	41.89	PKFH	33	-30.2	44.69	-	-	74	-29.31	239	105	V
	* 3.631	28.93	VA1T	33.1	-30.2	31.83	54	-22.17	-	-	239	105	V
5	* 4.232	39.68	PKFH	33.5	-28.9	44.28	-	-	74	-29.72	254	208	V
	* 4.232	28.5	VA1T	33.5	-28.9	33.1	54	-20.9	-	-	254	208	V
6	* 4.75	39.86	PKFH	34.3	-28.9	45.26	-	-	74	-28.74	187	106	V
	* 4.748	28.05	VA1T	34.3	-29	33.35	54	-20.65	-	-	187	106	V

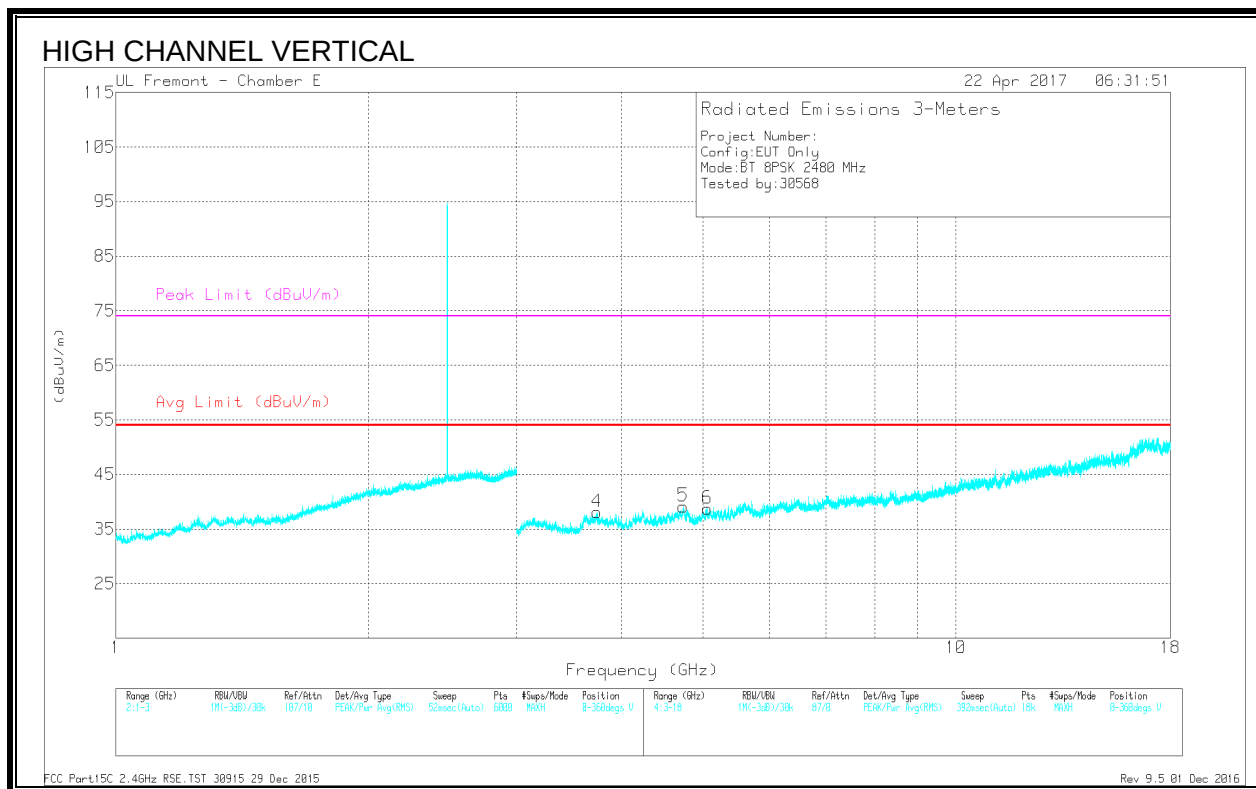
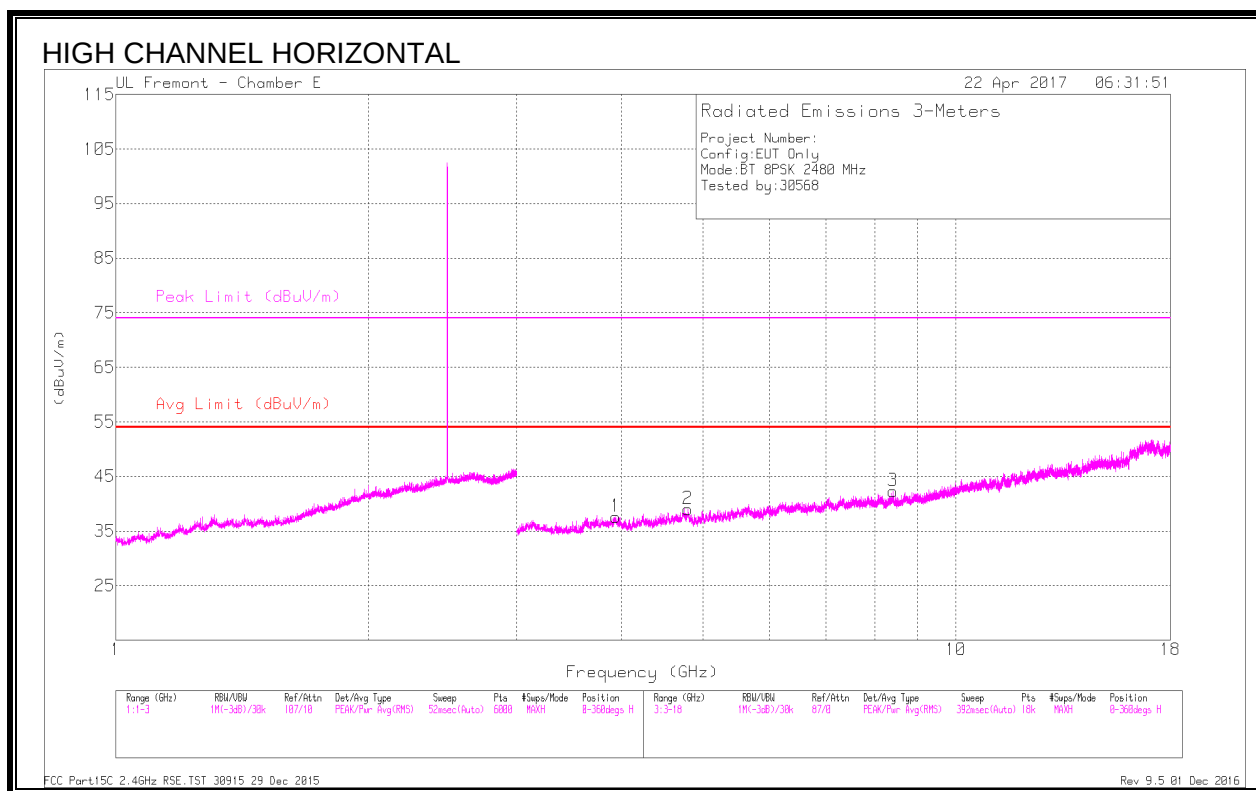
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 3.936	39.7	PKFH	33.4	-29.3	43.8	-	-	74	-30.2	345	108	H
	* 3.937	28.37	VA1T	33.4	-29.3	32.47	54	-21.53	-	-	345	108	H
2	* 4.801	39.8	PKFH	34.2	-29.5	44.5	-	-	74	-29.5	345	109	H
	* 4.802	28.69	VA1T	34.2	-29.6	33.29	54	-20.71	-	-	345	109	H
3	* 8.412	36.98	PKFH	36	-25.3	47.68	-	-	74	-26.32	298	130	H
	* 8.413	25.03	VA1T	36	-25.3	35.73	54	-18.27	-	-	298	130	H
4	* 3.74	40.61	PKFH	33.4	-29.8	44.21	-	-	74	-29.79	62	249	V
	* 3.739	28.59	VA1T	33.4	-29.8	32.19	54	-21.81	-	-	62	249	V
5	* 4.737	39.77	PKFH	34.3	-29	45.07	-	-	74	-28.93	67	122	V
	* 4.735	28.1	VA1T	34.3	-29.1	33.3	54	-20.7	-	-	67	122	V
6	* 5.056	40.38	PKFH	34.3	-29.7	44.98	-	-	74	-29.02	57	193	V
	* 5.055	28.6	VA1T	34.3	-29.7	33.2	54	-20.8	-	-	57	193	V

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

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

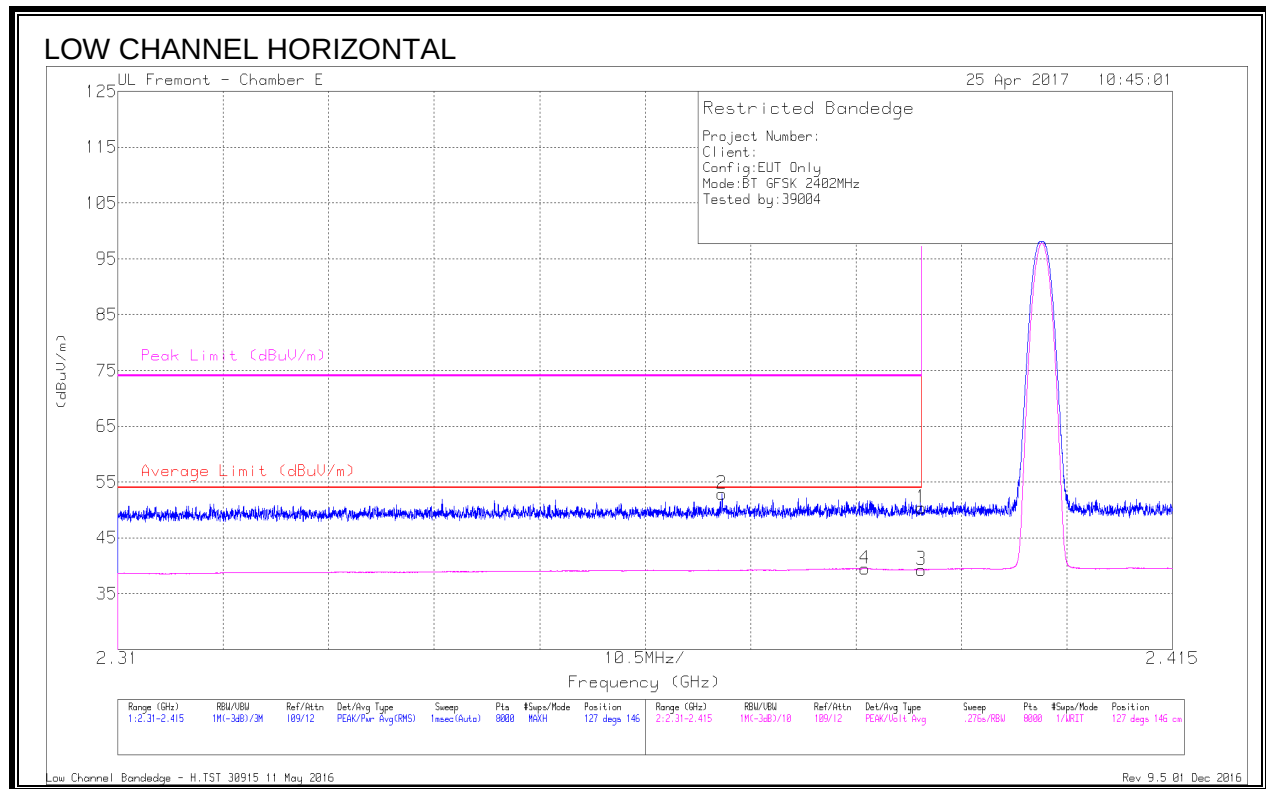
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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9.8. LAT 3, PLOW BASIC DATA RATE GFSK MODULATION

9.8.1. RESTRICTED BANDEDGE (LOW CHANNEL)

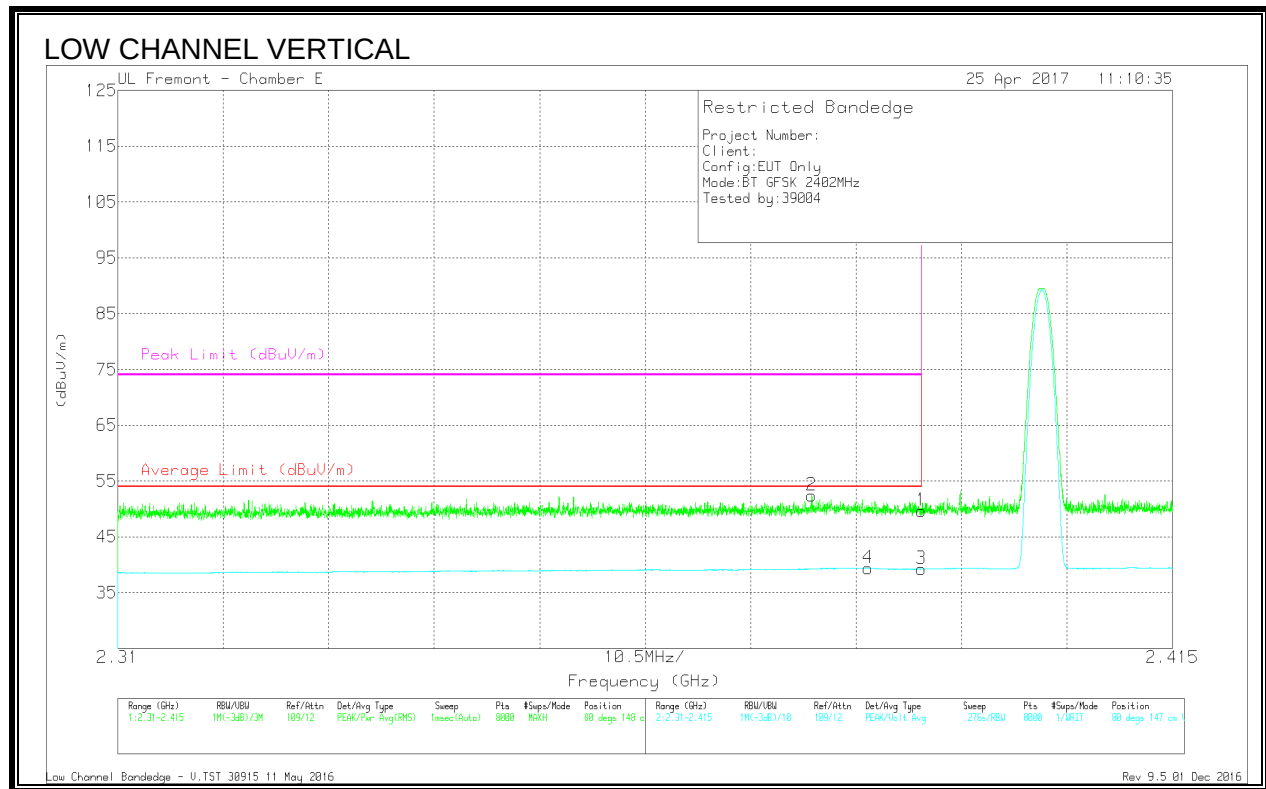


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.17	Pk	32	-19.7	50.47	-	-	74	-23.53	127	146	H
2	* 2.37	40.65	Pk	32	-19.8	52.85	-	-	74	-21.15	127	146	H
3	* 2.39	27	VA1T	32	-19.7	39.3	54	-14.7	-	-	127	146	H
4	* 2.384	26.98	VA1T	32	-19.5	39.48	54	-14.52	-	-	127	146	H

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

Pk - Peak detector

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



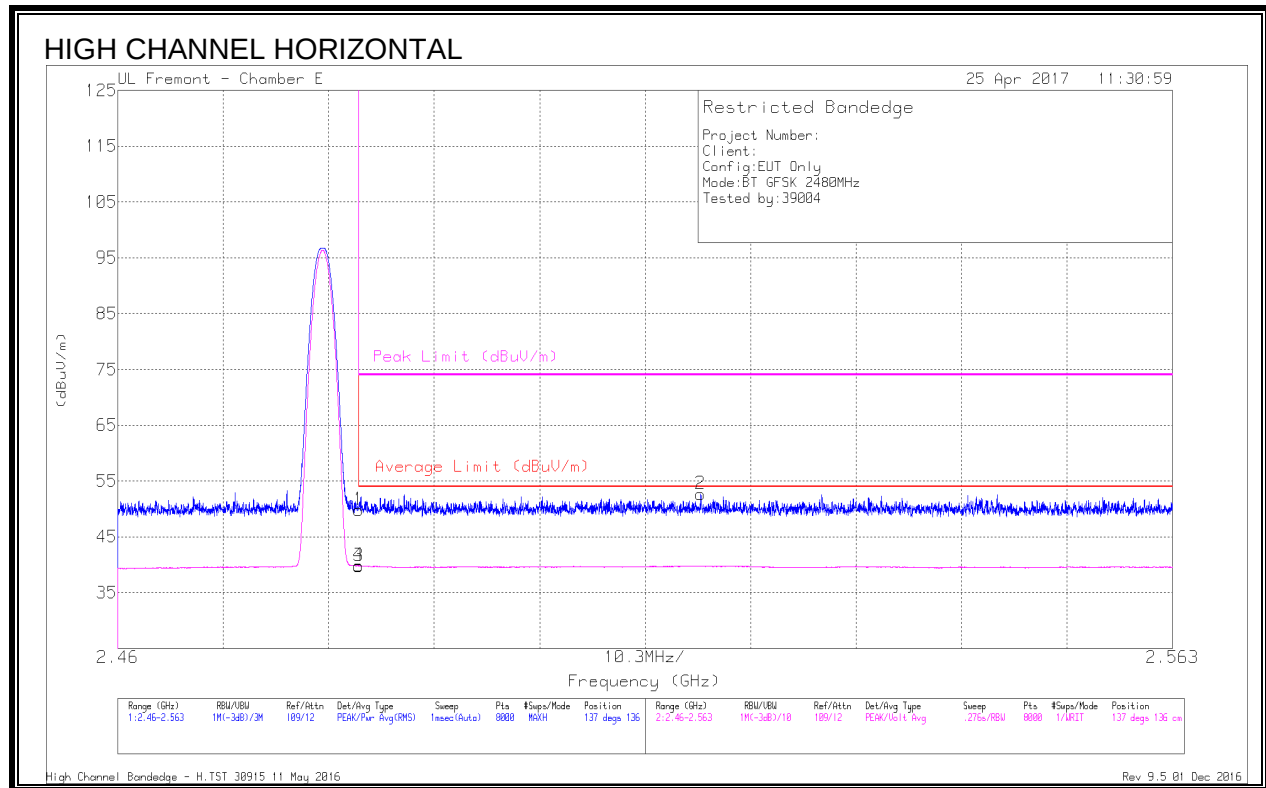
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Fitr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.39	37.42	Pk	32	-19.7	49.72	-	-	74	-24.28	80	148	V
2	* 2.379	40.05	Pk	32	-19.6	52.45	-	-	74	-21.55	80	148	V
3	* 2.39	26.91	VA1T	32	-19.7	39.21	54	-14.79	-	-	80	147	V
4	* 2.385	26.89	VA1T	32	-19.5	39.39	54	-14.61	-	-	80	147	V

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

Pk - Peak detector

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

9.8.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

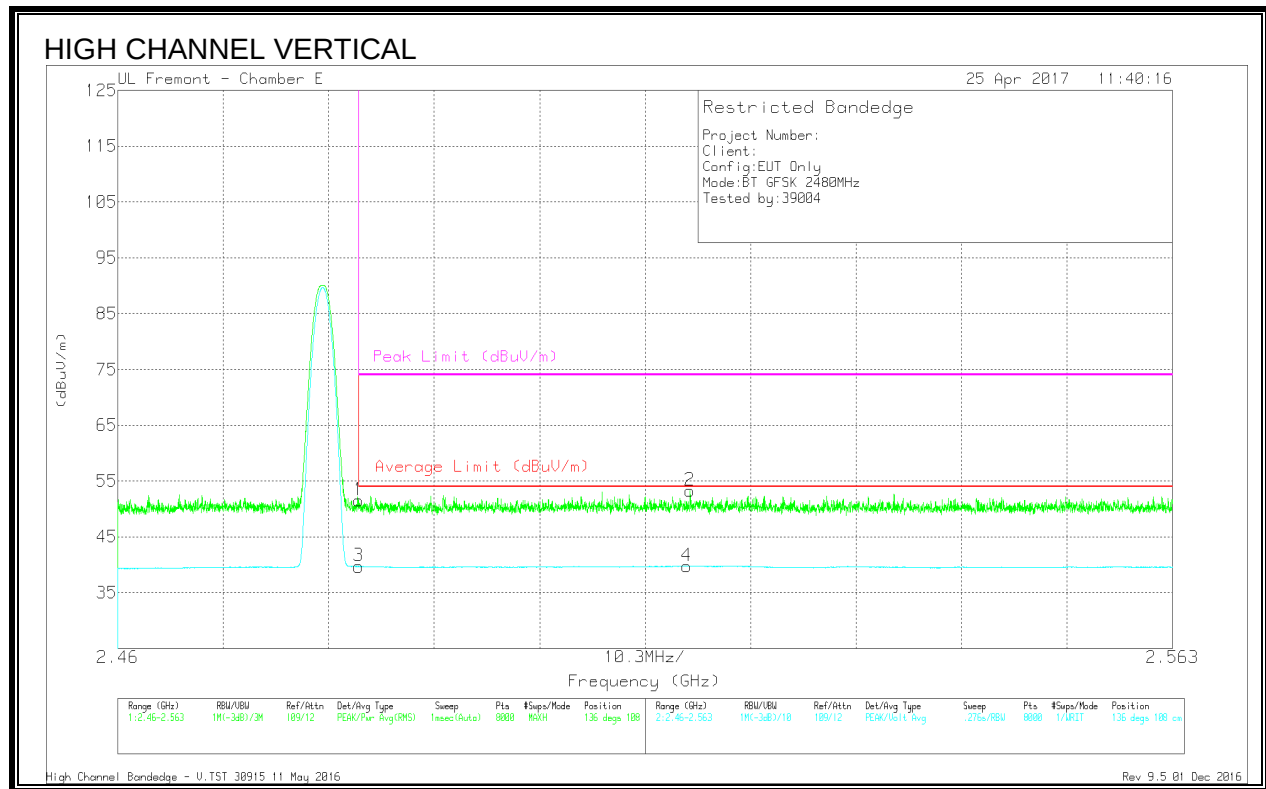


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Fitr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.04	Pk	32.5	-19.7	49.84	-	-	74	-24.16	137	136	H
3	* 2.484	26.99	VA1T	32.5	-19.7	39.79	54	-14.21	-	-	137	136	H
4	* 2.484	27.02	VA1T	32.5	-19.7	39.82	54	-14.18	-	-	137	136	H
2	2.517	39.7	Pk	32.6	-19.7	52.6	-	-	74	-21.4	137	136	H

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

Pk - Peak detector

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



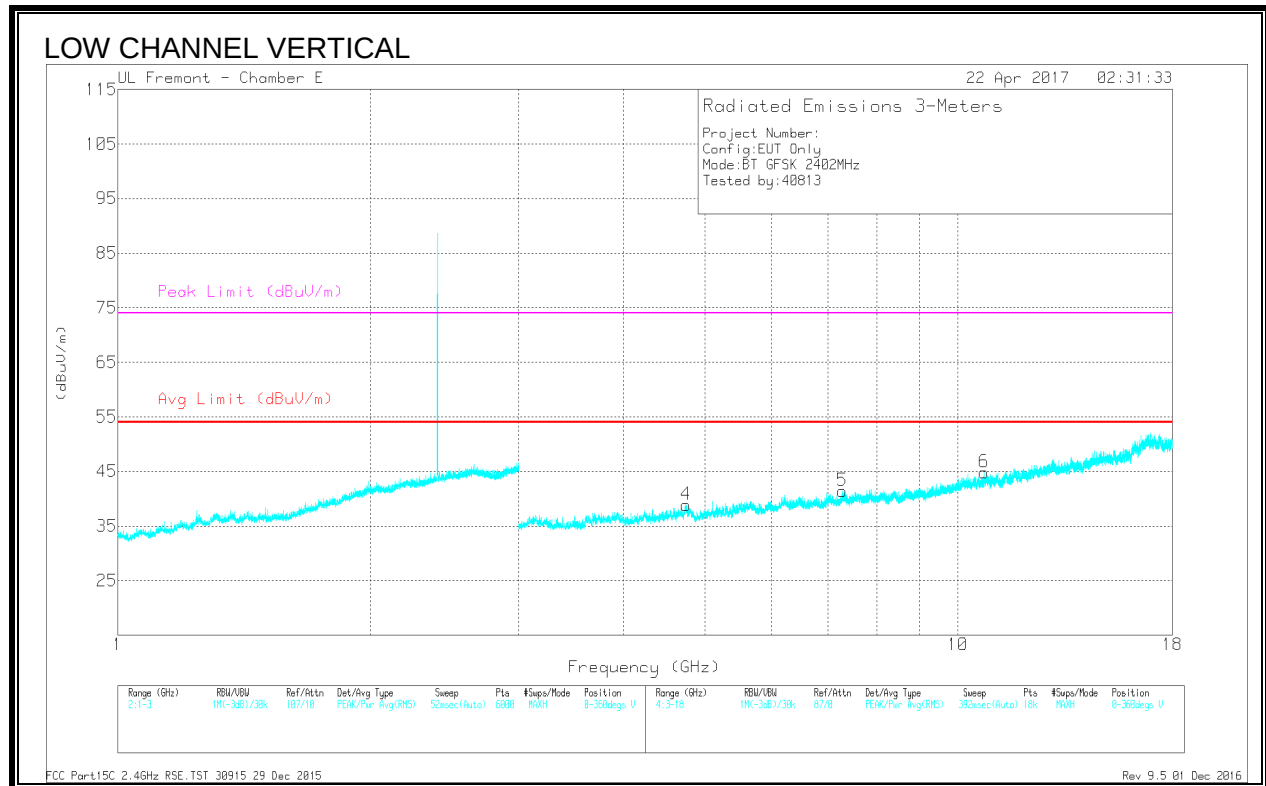
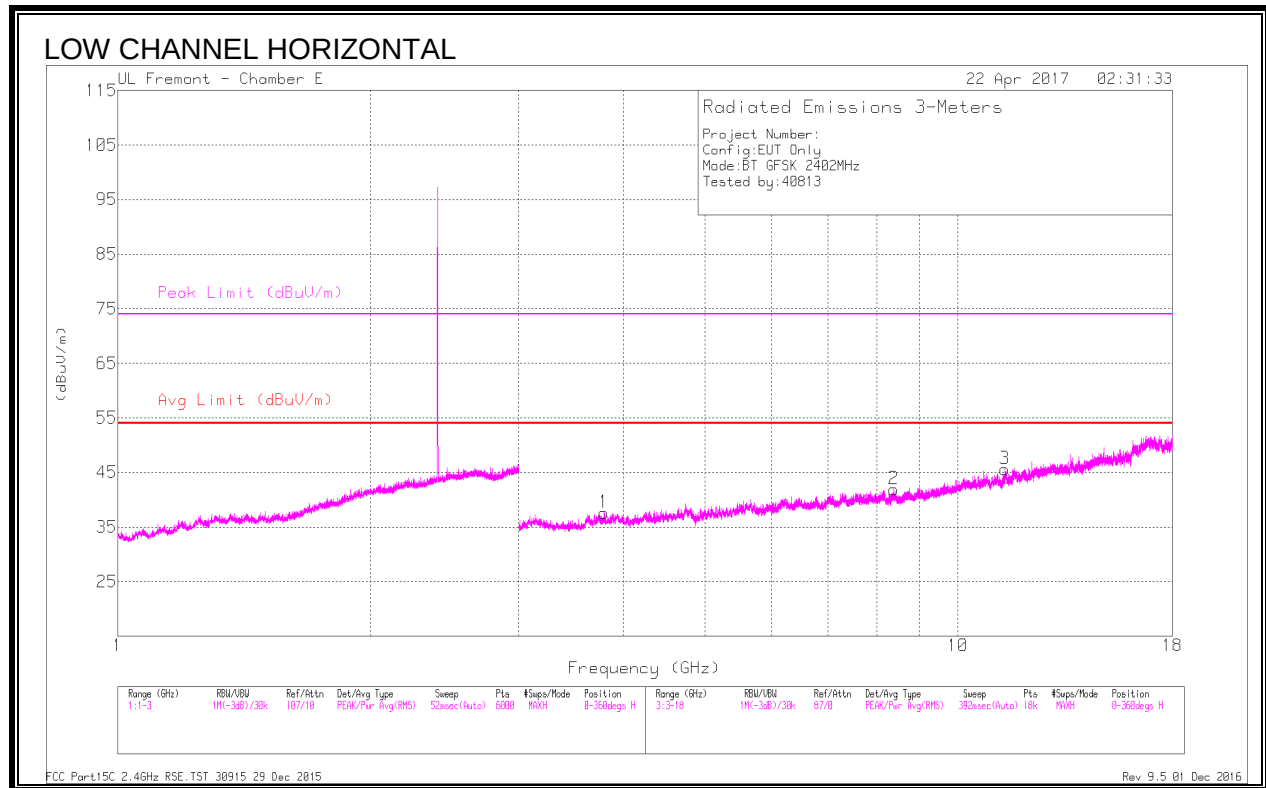
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 2.484	38.7	Pk	32.5	-19.7	51.5	-	-	74	-22.5	136	108	V
3	* 2.484	26.88	VA1T	32.5	-19.7	39.68	54	-14.32	-	-	136	108	V
2	2.516	40.38	Pk	32.6	-19.7	53.28	-	-	74	-20.72	136	108	V
4	2.516	26.89	VA1T	32.6	-19.7	39.79	54	-14.21	-	-	136	108	V

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

Pk - Peak detector

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

9.8.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 3.789	41.68	PKFH	33.4	-30.4	44.68	-	-	74	-29.32	320	190	H
	* 3.791	29.12	VA1T	33.4	-30.4	32.12	54	-21.88	-	-	320	190	H
2	* 8.39	37.05	PKFH	36	-25.5	47.55	-	-	74	-26.45	307	118	H
	* 8.389	25.33	VA1T	36	-25.5	35.83	54	-18.17	-	-	307	118	H
3	* 11.381	35.38	PKFH	38	-22.2	51.18	-	-	74	-22.82	315	192	H
	* 11.378	23.42	VA1T	38	-22.3	39.12	54	-14.88	-	-	315	192	H
4	* 4.749	39.31	PKFH	34.3	-28.9	44.71	-	-	74	-29.29	274	226	V
	* 4.75	27.58	VA1T	34.3	-28.9	32.98	54	-21.02	-	-	274	226	V
5	* 7.289	37.97	PKFH	35.9	-26.3	47.57	-	-	74	-26.43	241	120	V
	* 7.29	25.75	VA1T	35.9	-26.3	35.35	54	-18.65	-	-	241	120	V
6	* 10.737	35.94	PKFH	37.6	-23.2	50.34	-	-	74	-23.66	249	119	V
	* 10.736	23.65	VA1T	37.6	-23.1	38.15	54	-15.85	-	-	249	119	V

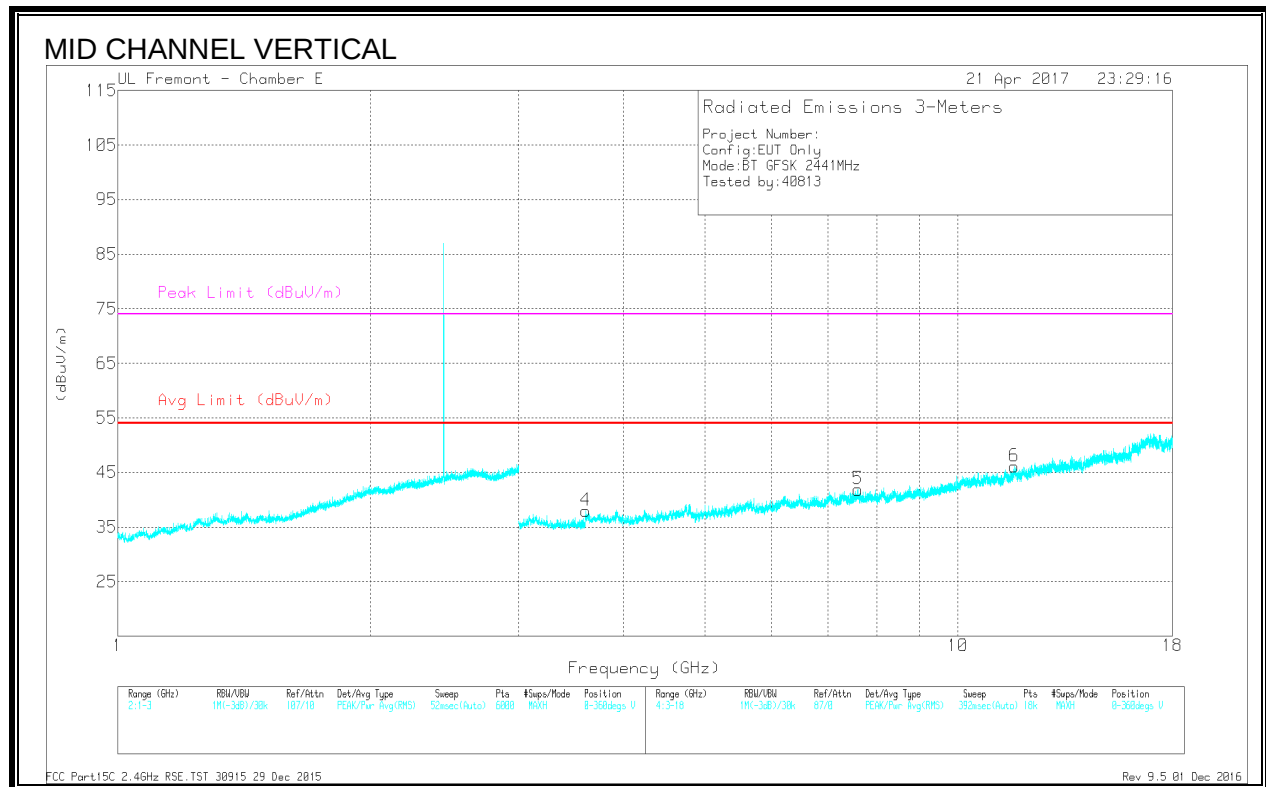
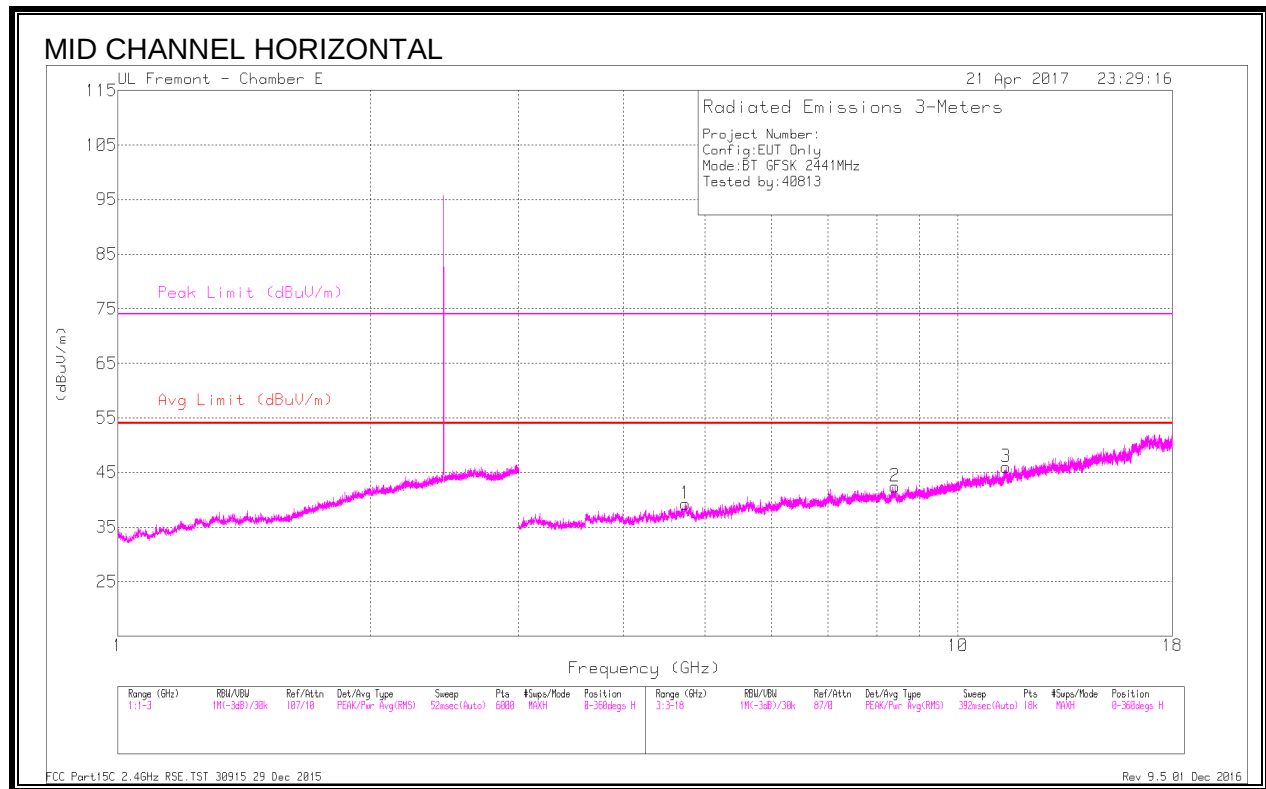
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 4.741	39.93	PKFH	34.3	-28.9	45.33	-	-	74	-28.67	344	120	H
	* 4.743	27.81	VA1T	34.3	-29	33.11	54	-20.89	-	-	344	120	H
2	* 8.414	37.06	PKFH	36	-25.3	47.76	-	-	74	-26.24	262	126	H
	* 8.414	25.08	VA1T	36	-25.2	35.88	54	-18.12	-	-	262	126	H
3	* 11.407	35.12	PKFH	38	-21.6	51.52	-	-	74	-22.48	237	216	H
	* 11.407	23.32	VA1T	38	-21.6	39.72	54	-14.28	-	-	237	216	H
4	* 3.603	39.85	PKFH	32.9	-30.6	42.15	-	-	74	-31.85	40	238	V
	* 3.607	28.38	VA1T	32.9	-30.4	30.88	54	-23.12	-	-	40	238	V
5	* 7.601	36.76	PKFH	36.1	-26	46.86	-	-	74	-27.14	55	213	V
	* 7.602	25.2	VA1T	36.1	-26	35.3	54	-18.7	-	-	55	213	V
6	* 11.67	35.24	PKFH	38.3	-22.1	51.44	-	-	74	-22.56	75	125	V
	* 11.67	23.68	VA1T	38.3	-22.1	39.88	54	-14.12	-	-	75	125	V

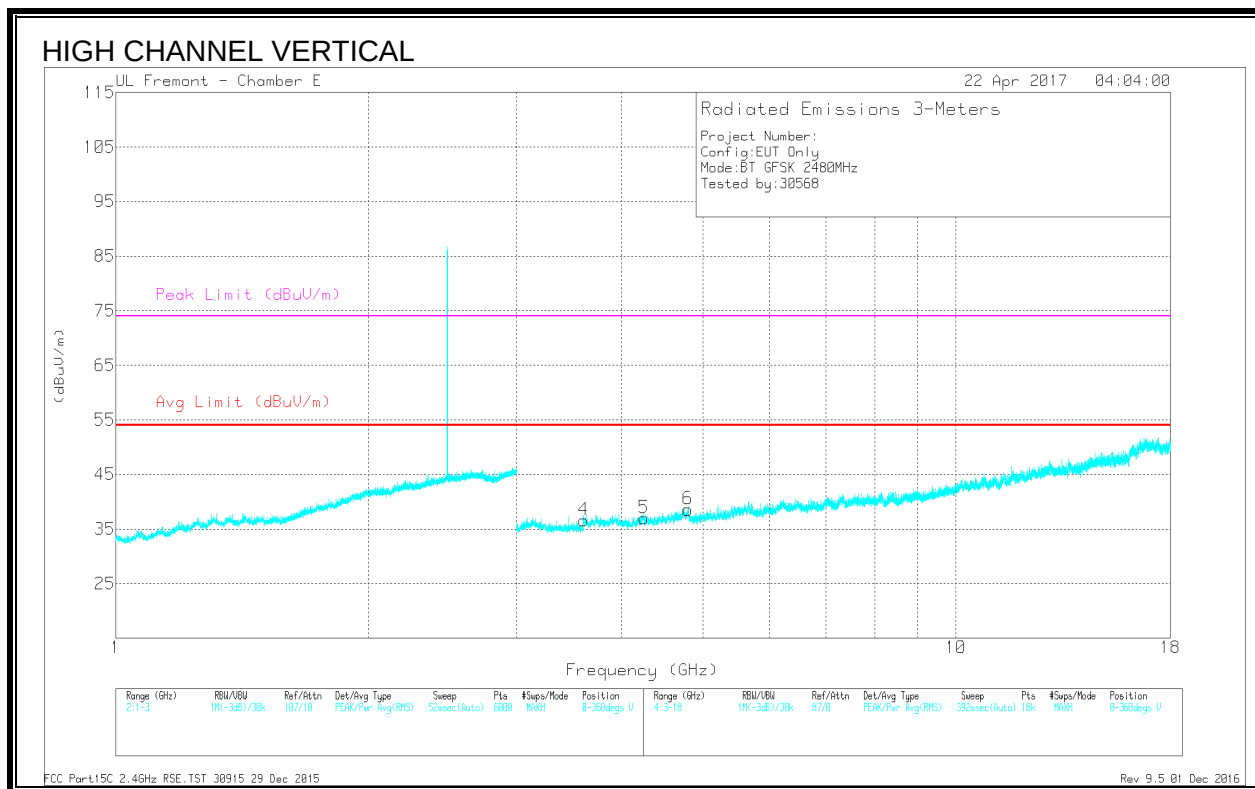
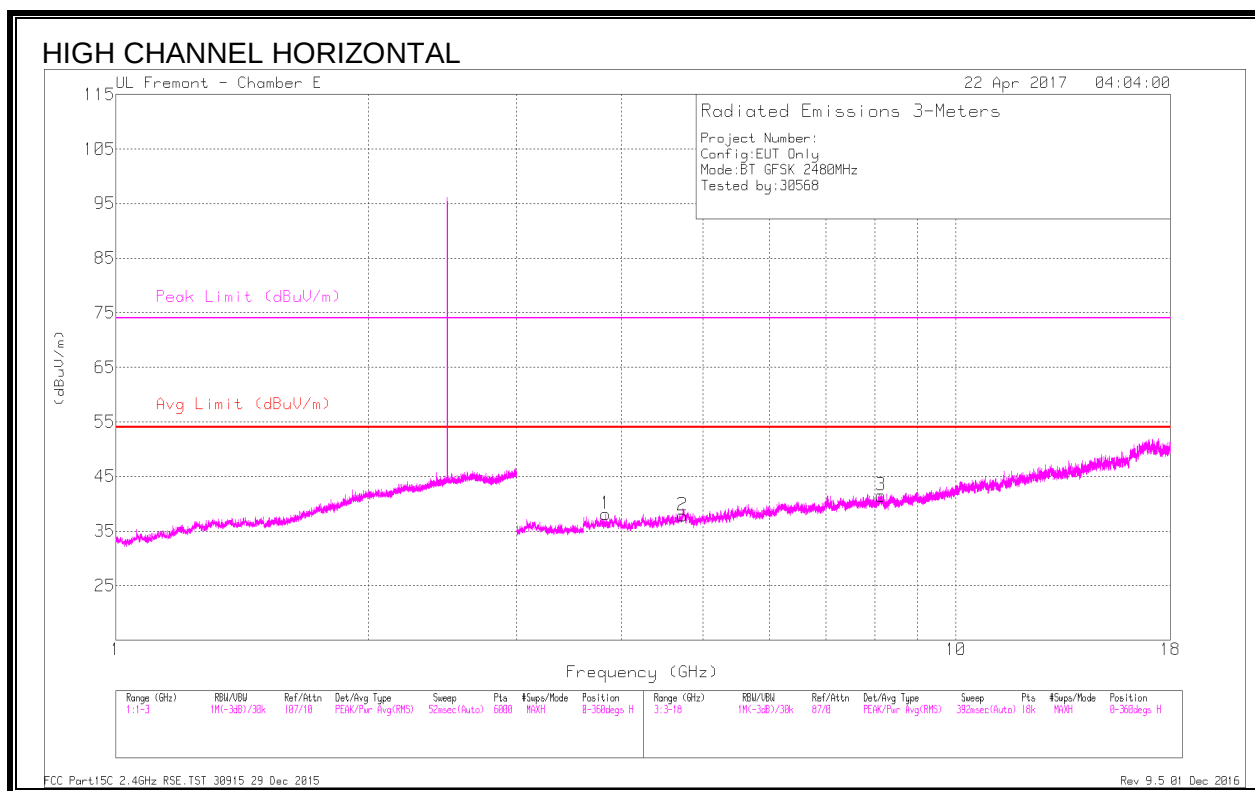
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

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Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 3.831	42.4	PKFH	33.4	-31	44.8	-	-	74	-29.2	101	336	H
	* 3.834	29.62	VA1T	33.4	-31	32.02	54	-21.98	-	-	101	336	H
2	* 4.727	38.74	PKFH	34.3	-29	44.04	-	-	74	-29.96	108	139	H
	* 4.729	27.52	VA1T	34.3	-29	32.82	54	-21.18	-	-	108	139	H
3	* 8.143	37.5	PKFH	36	-25.7	47.8	-	-	74	-26.2	116	225	H
	* 8.141	25.09	VA1T	36	-25.7	35.39	54	-18.61	-	-	116	225	H
4	* 3.609	40.45	PKFH	32.9	-30.4	42.95	-	-	74	-31.05	130	138	V
	* 3.61	28.59	VA1T	32.9	-30.4	31.09	54	-22.91	-	-	130	138	V
5	* 4.254	38.8	PKFH	33.5	-28.9	43.4	-	-	74	-30.6	133	138	V
	* 4.257	27.57	VA1T	33.5	-28.9	32.17	54	-21.83	-	-	133	138	V
6	* 4.796	40.56	PKFH	34.2	-29.6	45.16	-	-	74	-28.84	146	219	V
	* 4.797	28.99	VA1T	34.2	-29.6	33.69	54	-20.31	-	-	146	219	V

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

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

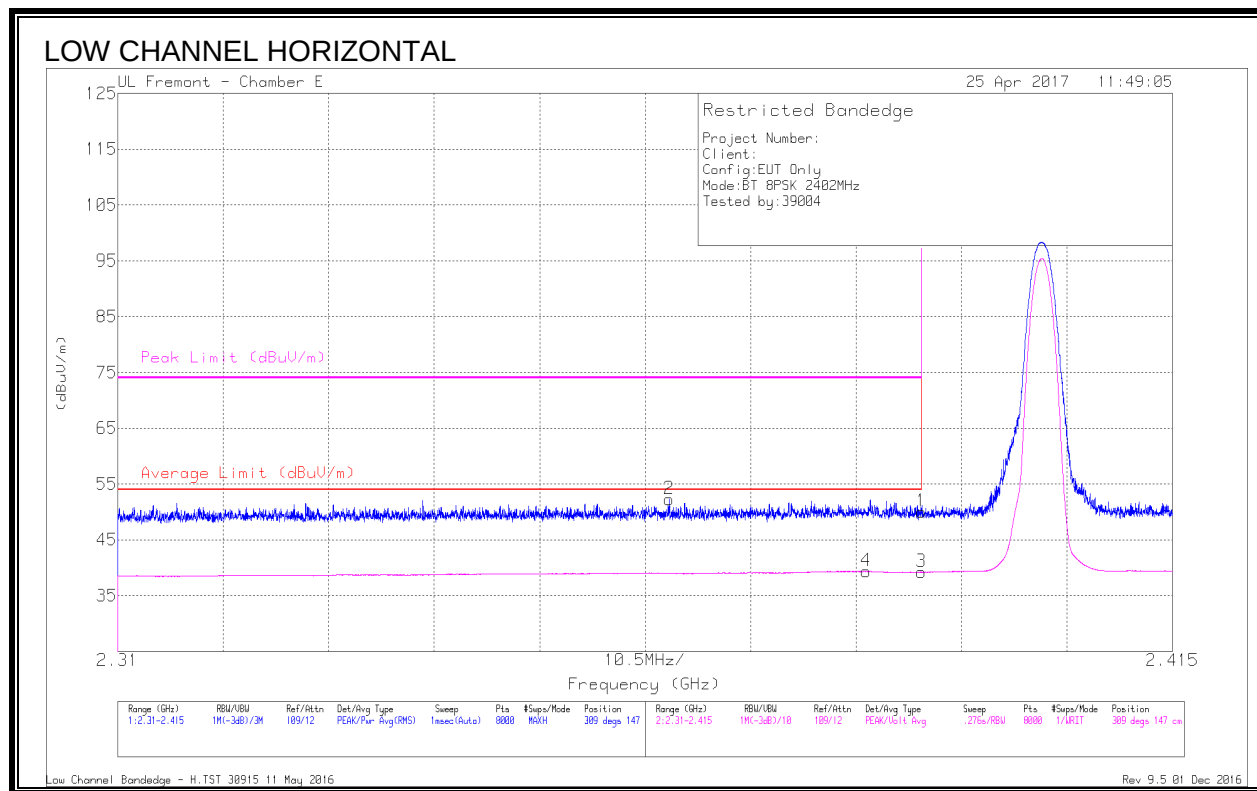
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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9.9. LAT 3, PLOW ENHANCED DATA RATE 8PSK MODULATION

9.9.1. RESTRICTED BANDEDGE (LOW CHANNEL)

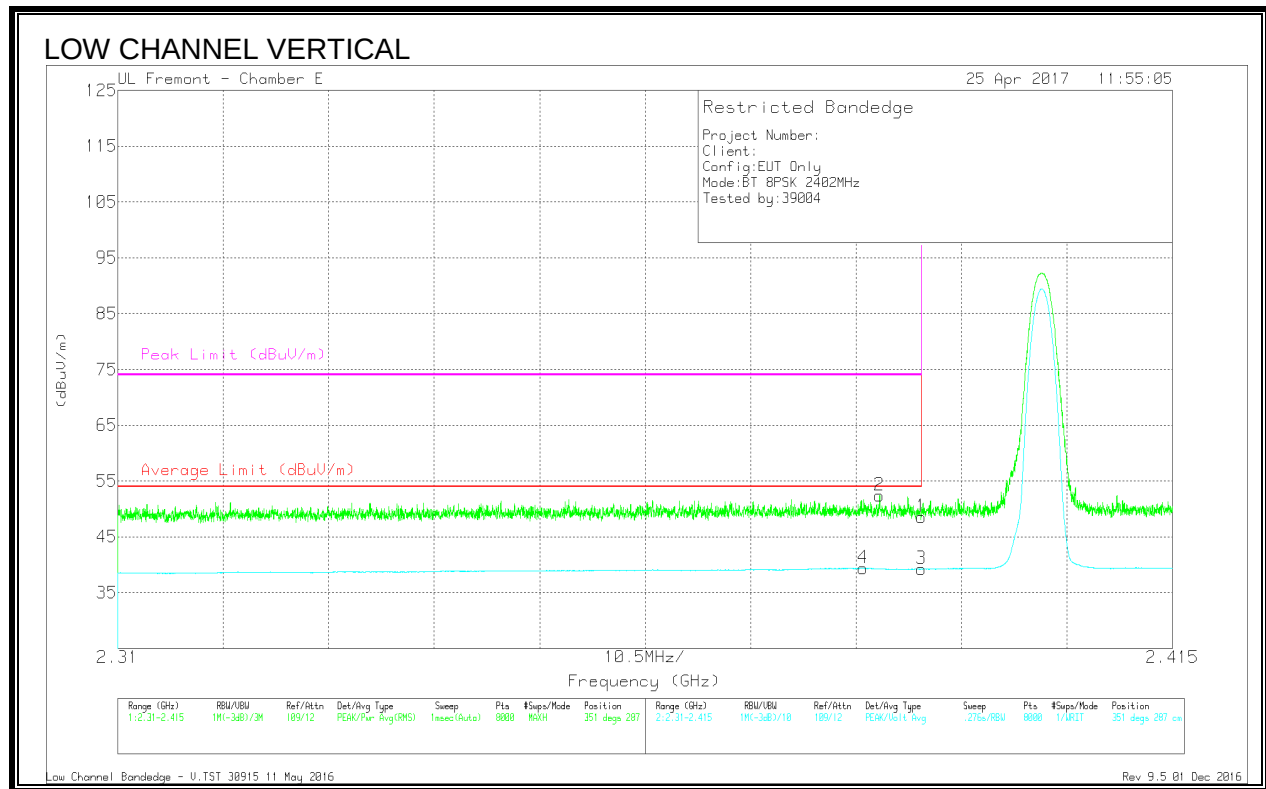


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.78	Pk	32	-19.7	50.08	-	-	74	-23.92	309	147	H
2	* 2.365	40.04	Pk	31.9	-19.7	52.24	-	-	74	-21.76	309	147	H
3	* 2.39	26.89	VA1T	32	-19.7	39.19	54	-14.81	-	-	309	147	H
4	* 2.385	26.84	VA1T	32	-19.5	39.34	54	-14.66	-	-	309	147	H

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

Pk - Peak detector

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



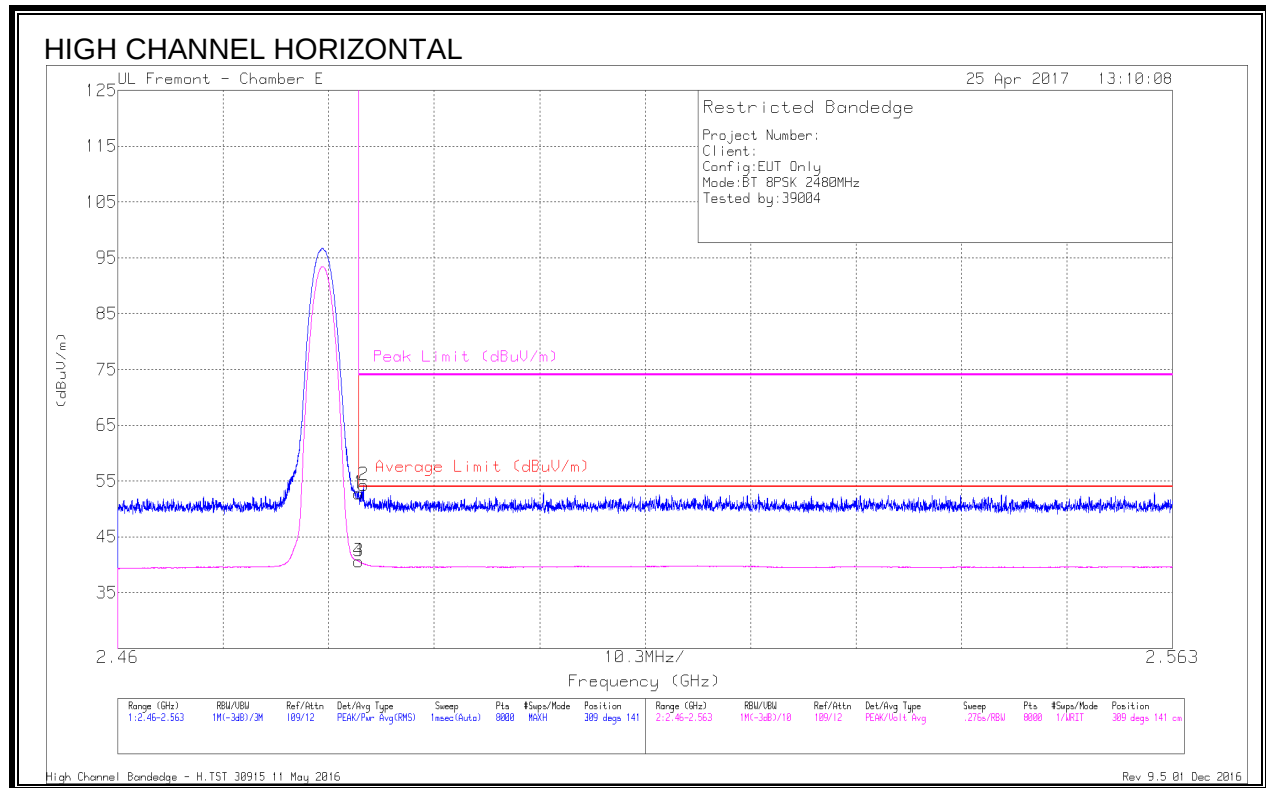
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.2	Pk	32	-19.7	48.5	-	-	74	-25.5	351	287	V
2	* 2.386	40	Pk	32	-19.6	52.4	-	-	74	-21.6	351	287	V
3	* 2.39	26.91	VA1T	32	-19.7	39.21	54	-14.79	-	-	351	287	V
4	* 2.384	26.88	VA1T	32	-19.5	39.38	54	-14.62	-	-	351	287	V

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

Pk - Peak detector

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

9.9.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)

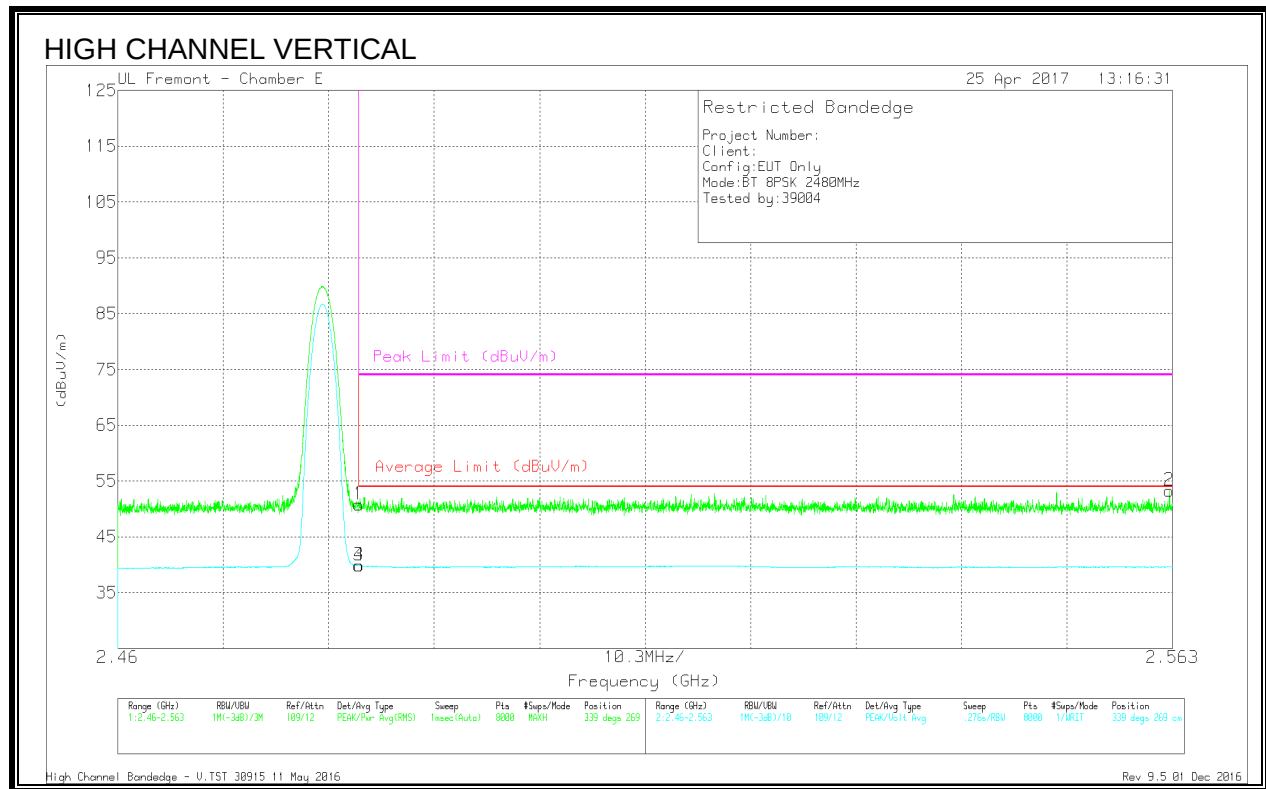


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.94	Pk	32.5	-19.7	52.74	-	-	74	-21.26	309	141	H
2	* 2.484	41.43	Pk	32.5	-19.7	54.23	-	-	74	-19.77	309	141	H
3	* 2.484	27.84	VA1T	32.5	-19.7	40.64	54	-13.36	-	-	309	141	H
4	* 2.484	27.85	VA1T	32.5	-19.7	40.65	54	-13.35	-	-	309	141	H

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

Pk - Peak detector

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



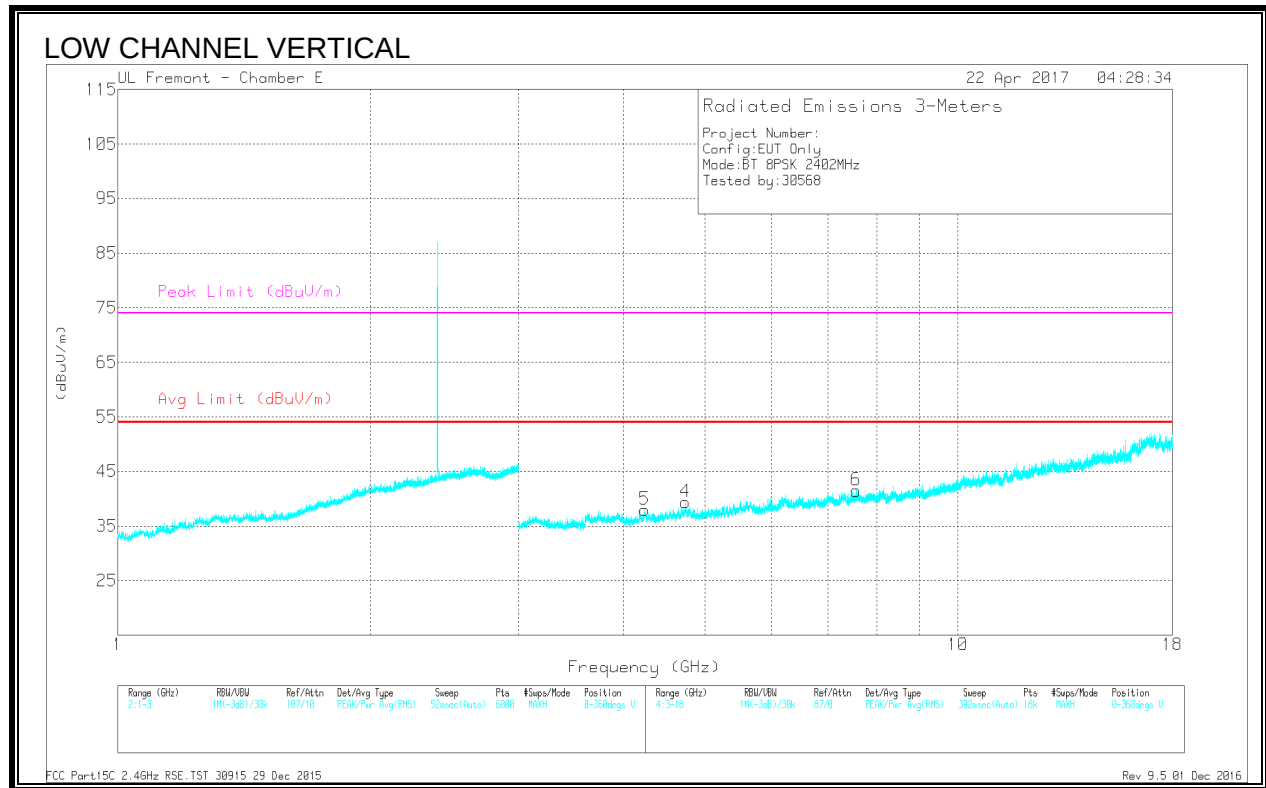
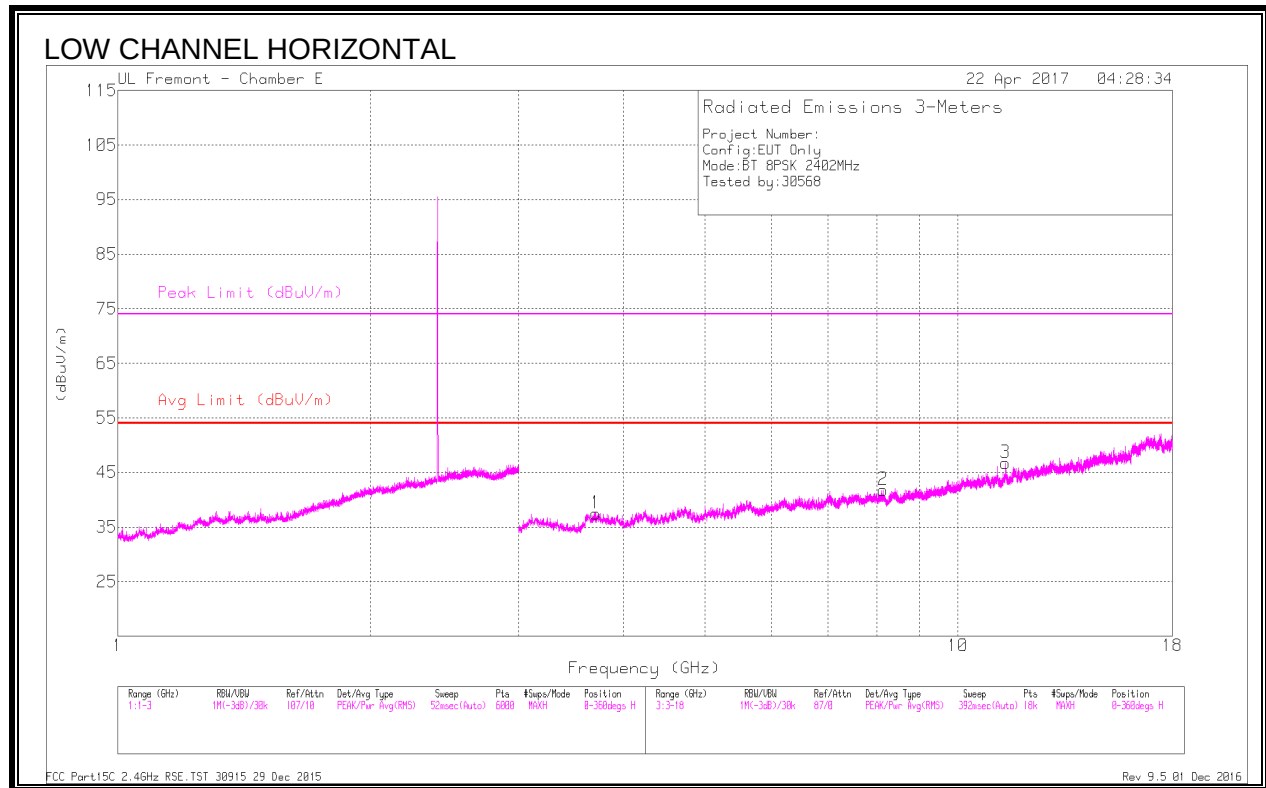
Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimut h (Degs)	Height (cm)	Polarity
1	* 2.484	38.02	Pk	32.5	-19.7	50.82	-	-	74	-23.18	339	269	V
3	* 2.484	27.05	VA1T	32.5	-19.7	39.85	54	-14.15	-	-	339	269	V
4	* 2.484	27.07	VA1T	32.5	-19.7	39.87	54	-14.13	-	-	339	269	V
2	2.563	40.6	Pk	32.5	-19.8	53.3	-	-	74	-20.7	339	269	V

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

Pk - Peak detector

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

9.9.3. HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 3.707	40.12	PKFH	33.4	-30.2	43.32	-	-	74	-30.68	311	374	H
	* 3.71	28.34	VA1T	33.4	-30.2	31.54	54	-22.46	-	-	311	374	H
2	* 8.147	36.43	PKFH	36	-25.6	46.83	-	-	74	-27.17	313	119	H
	* 8.15	24.8	VA1T	36	-25.2	35.6	54	-18.4	-	-	313	119	H
3	* 11.399	34.53	PKFH	38	-21.6	50.93	-	-	74	-23.07	332	222	H
	* 11.397	23.22	VA1T	38	-21.6	39.62	54	-14.38	-	-	332	222	H
4	* 4.737	39.63	PKFH	34.3	-29	44.93	-	-	74	-29.07	149	110	V
	* 4.74	27.78	VA1T	34.3	-28.9	33.18	54	-20.82	-	-	149	110	V
5	* 4.239	40.79	PKFH	33.5	-28.7	45.59	-	-	74	-28.41	178	128	V
	* 4.238	28.12	VA1T	33.5	-28.7	32.92	54	-21.08	-	-	178	128	V
6	* 7.561	37.48	PKFH	36.1	-26	47.58	-	-	74	-26.42	216	217	V
	* 7.559	25.19	VA1T	36.1	-26	35.29	54	-18.71	-	-	216	217	V

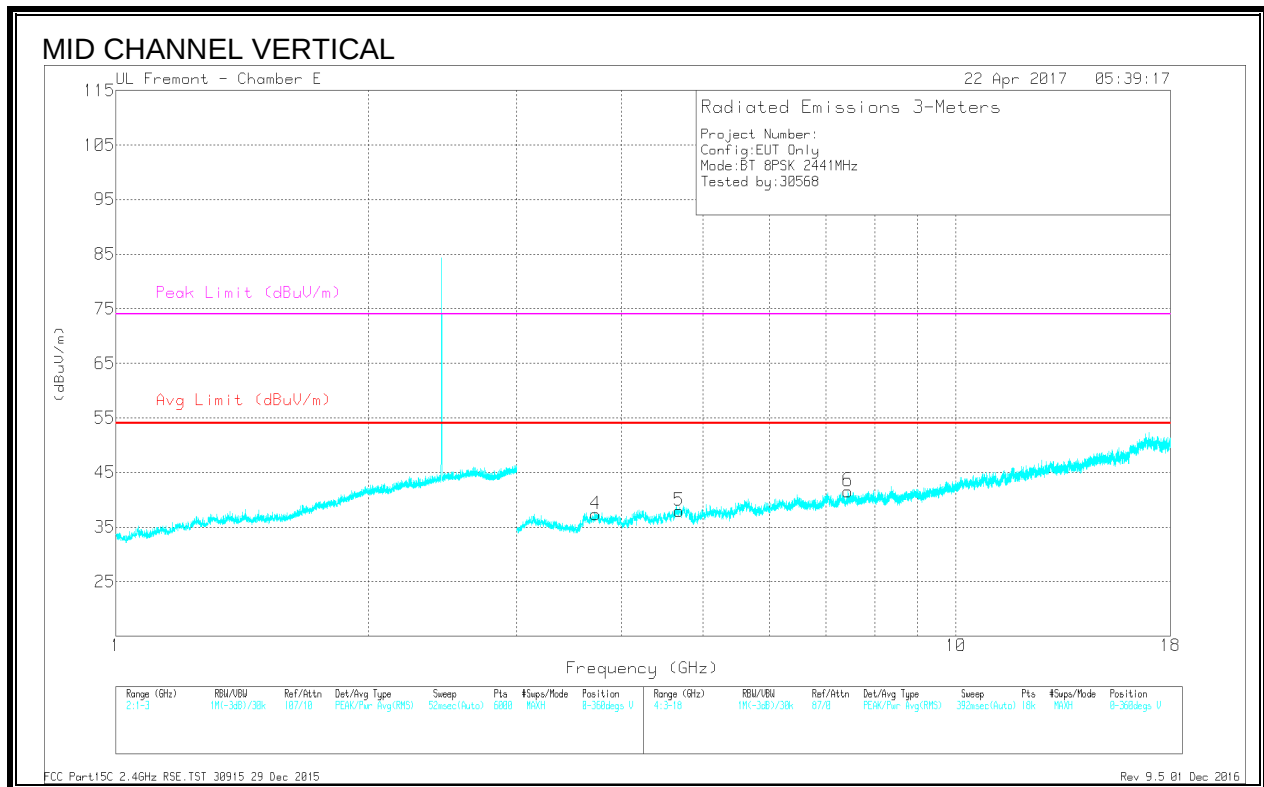
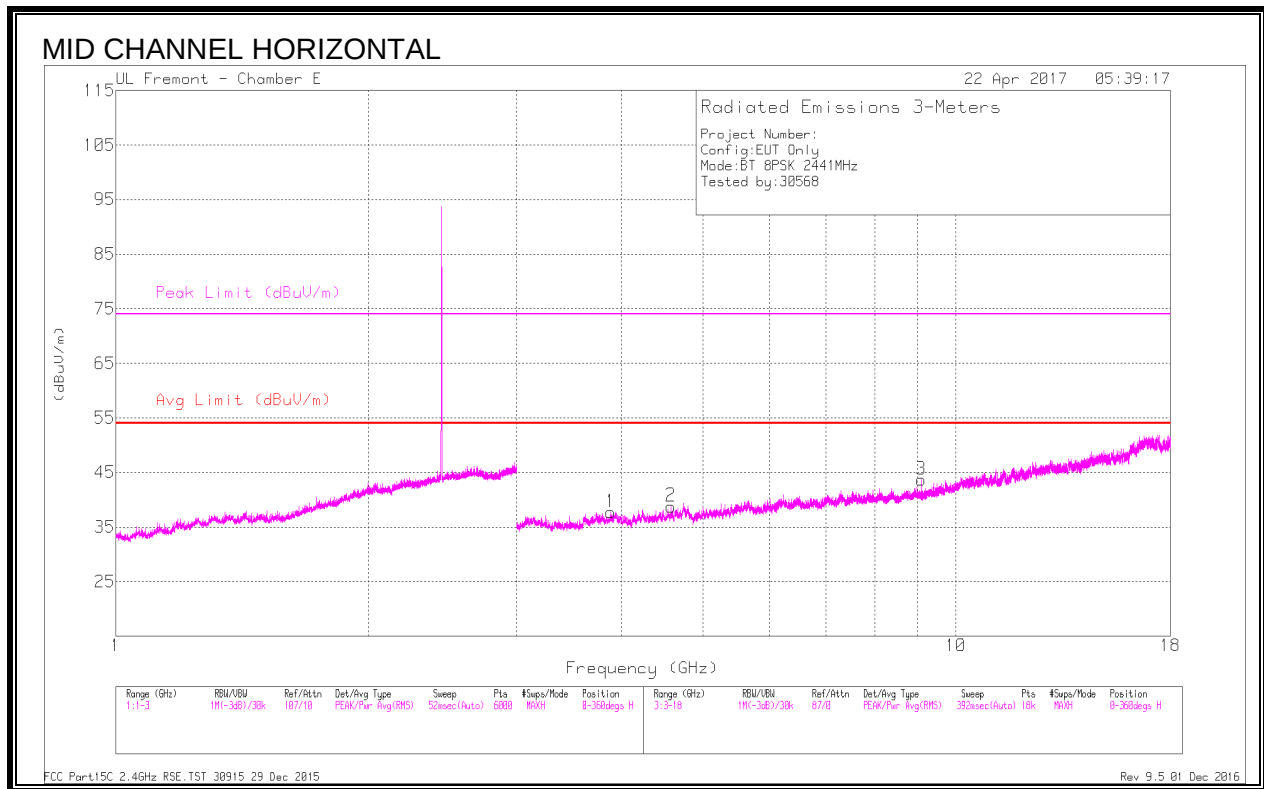
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

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Rev 9.5 01 Dec 2016



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 3.88	40.92	PKFH	33.4	-30.5	43.82	-	-	74	-30.18	218	108	H
	* 3.882	29.15	VA1T	33.4	-30.5	32.05	54	-21.95	-	-	218	108	H
2	* 4.584	40.27	PKFH	34.1	-30.2	44.17	-	-	74	-29.83	202	197	H
	* 4.584	28.46	VA1T	34.1	-30.2	32.36	54	-21.64	-	-	202	197	H
3	* 9.087	37.25	PKFH	36.3	-26.1	47.45	-	-	74	-26.55	171	112	H
	* 9.089	25.39	VA1T	36.3	-26	35.69	54	-18.31	-	-	171	112	H
4	* 3.722	40.69	PKFH	33.4	-30.1	43.99	-	-	74	-30.01	11	248	V
	* 3.723	29.08	VA1T	33.4	-30.1	32.38	54	-21.62	-	-	11	248	V
5	* 4.681	40.94	PKFH	34.3	-29.9	45.34	-	-	74	-28.66	29	113	V
	* 4.681	28.97	VA1T	34.3	-29.9	33.37	54	-20.63	-	-	29	113	V
6	* 7.436	38.23	PKFH	36	-27.4	46.83	-	-	74	-27.17	14	234	V
	* 7.438	26.08	VA1T	36	-27.4	34.68	54	-19.32	-	-	14	234	V

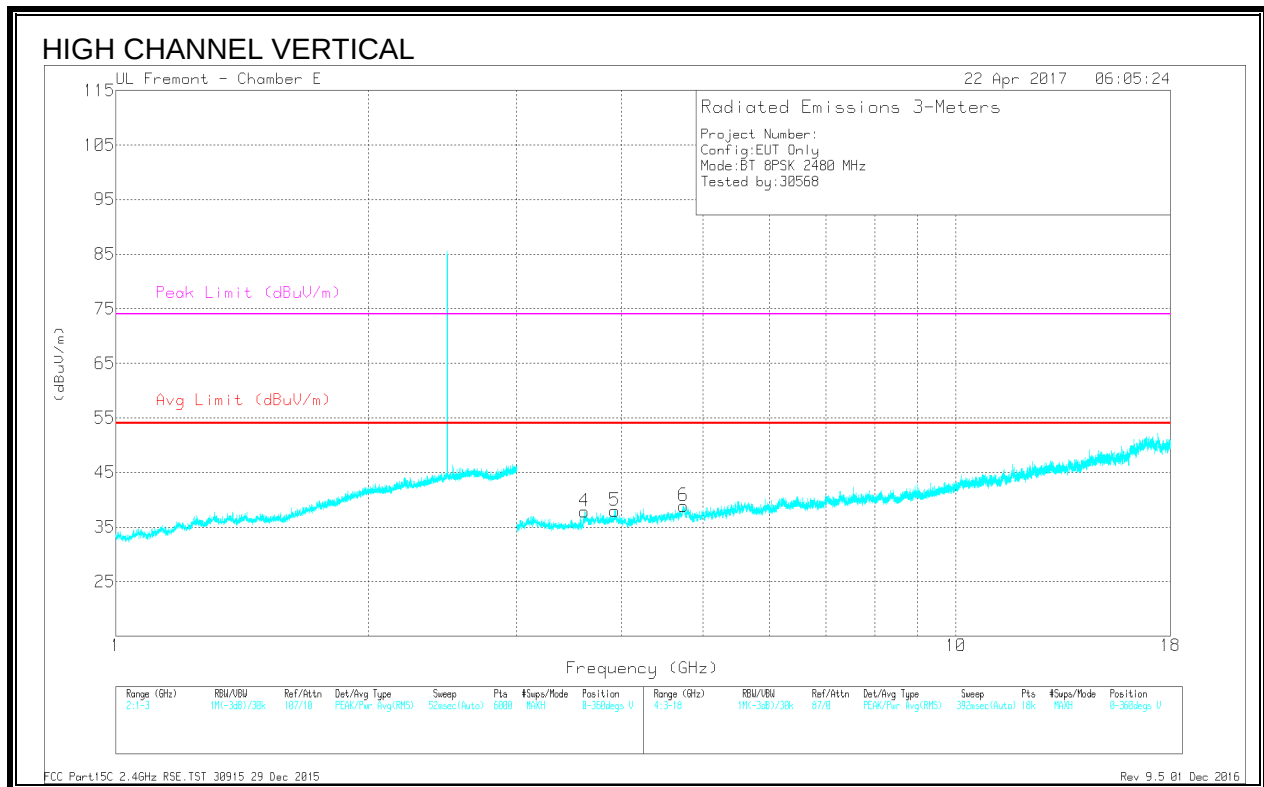
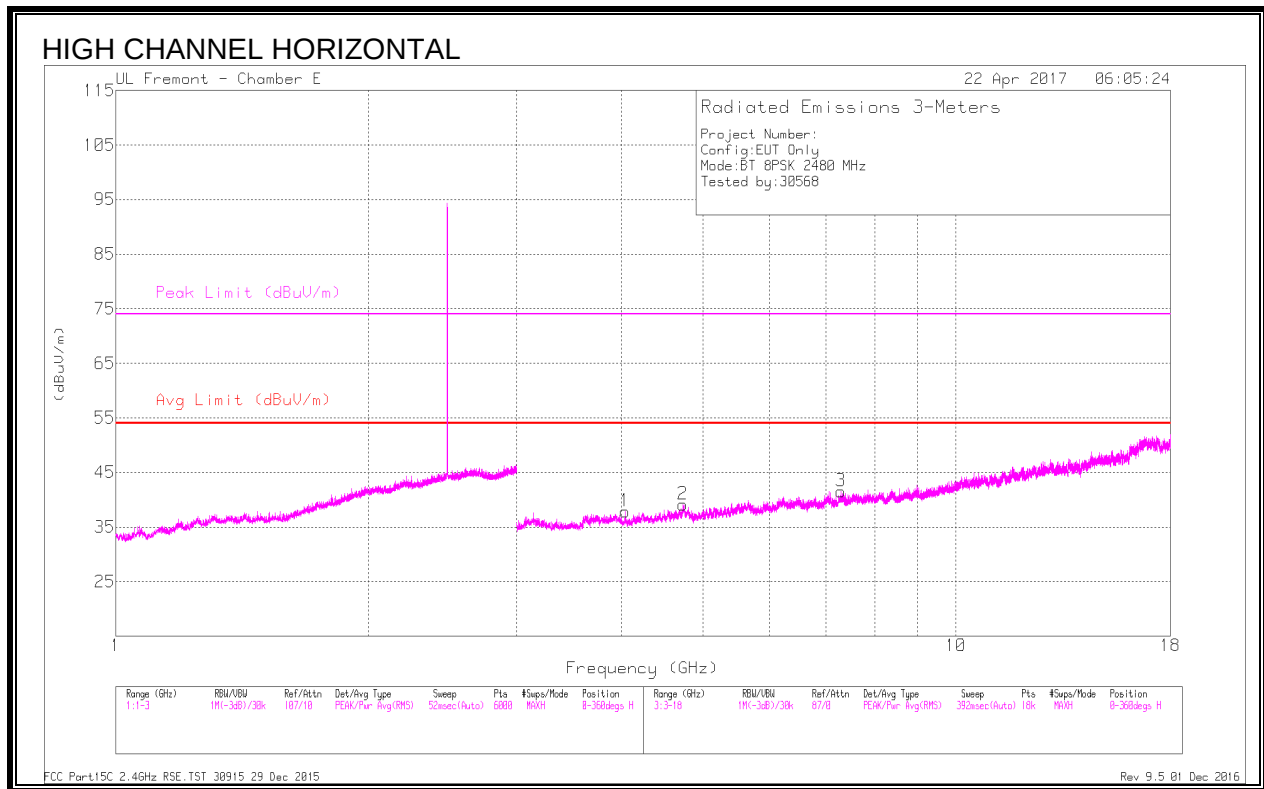
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 4.042	40.31	PKFH	33.4	-30.3	43.41	-	-	74	-30.59	347	359	H
	* 4.042	28.53	VA1T	33.4	-30.3	31.63	54	-22.37	-	-	347	359	H
2	* 4.731	40.04	PKFH	34.3	-29	45.34	-	-	74	-28.66	347	201	H
	* 4.734	27.82	VA1T	34.3	-29.1	33.02	54	-20.98	-	-	347	201	H
3	* 7.299	38.07	PKFH	35.9	-26.2	47.77	-	-	74	-26.23	339	114	H
	* 7.297	25.88	VA1T	35.9	-26.2	35.58	54	-18.42	-	-	339	114	H
4	* 3.609	42.1	PKFH	32.9	-30.4	44.6	-	-	74	-29.4	84	109	V
	* 3.609	28.54	VA1T	32.9	-30.4	31.04	54	-22.96	-	-	84	109	V
5	* 3.928	40.46	PKFH	33.4	-29.6	44.26	-	-	74	-29.74	65	199	V
	* 3.926	28.76	VA1T	33.4	-29.6	32.56	54	-21.44	-	-	65	199	V
6	* 4.742	40.64	PKFH	34.3	-28.9	46.04	-	-	74	-27.96	96	110	V
	* 4.741	27.84	VA1T	34.3	-28.9	33.24	54	-20.76	-	-	96	110	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

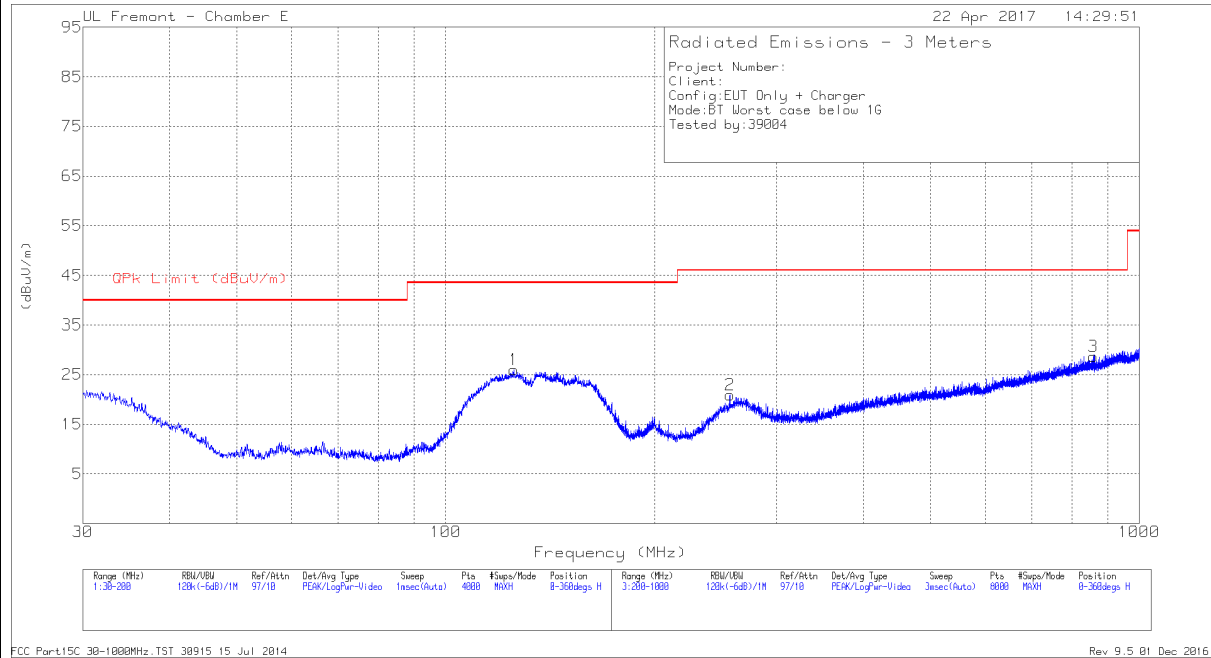
FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

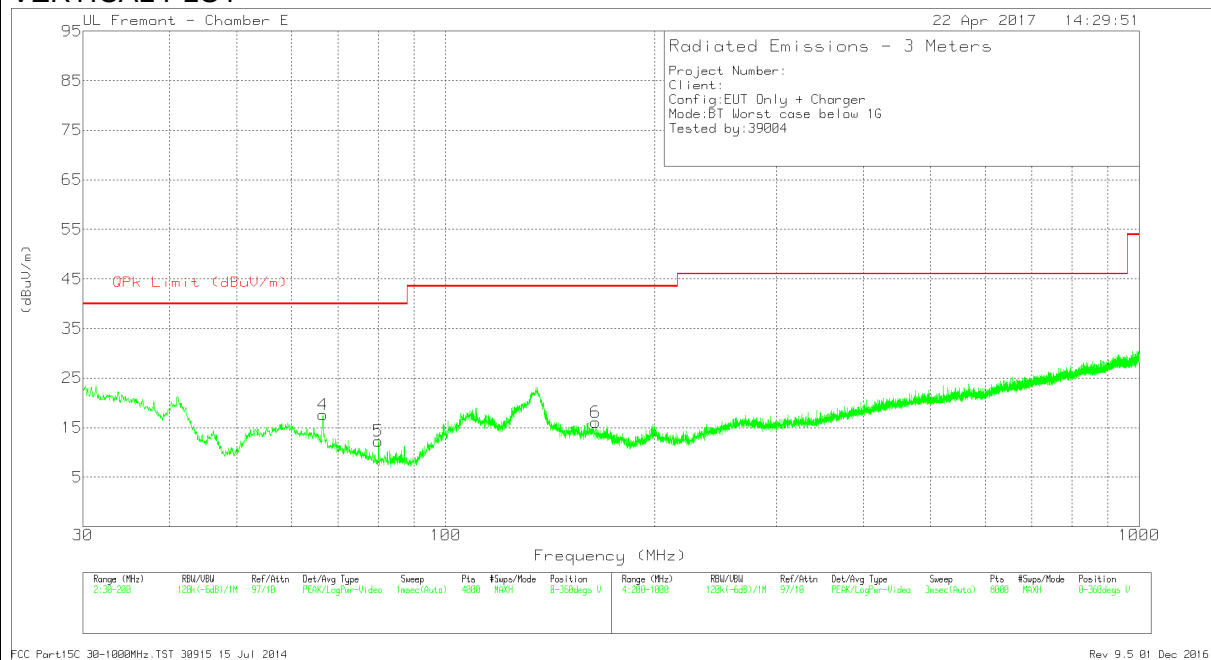
9.10. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 125.5222	38.86	Pk	17.7	-30.6	25.96	43.52	-17.56	0-360	200	H
6	* 164.5898	30.59	Pk	15.8	-30.3	16.09	43.52	-27.43	0-360	100	V
2	* 256.9074	34.68	Pk	15.8	-29.6	20.88	46.02	-25.14	0-360	100	H
4	66.602	36.73	Pk	12.1	-31.2	17.63	40	-22.37	0-360	100	V
5	79.9929	32.12	Pk	11.2	-31	12.32	40	-27.68	0-360	100	V
3	858.2856	29.29	Pk	25.8	-26.4	28.69	46.02	-17.33	0-360	400	H

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

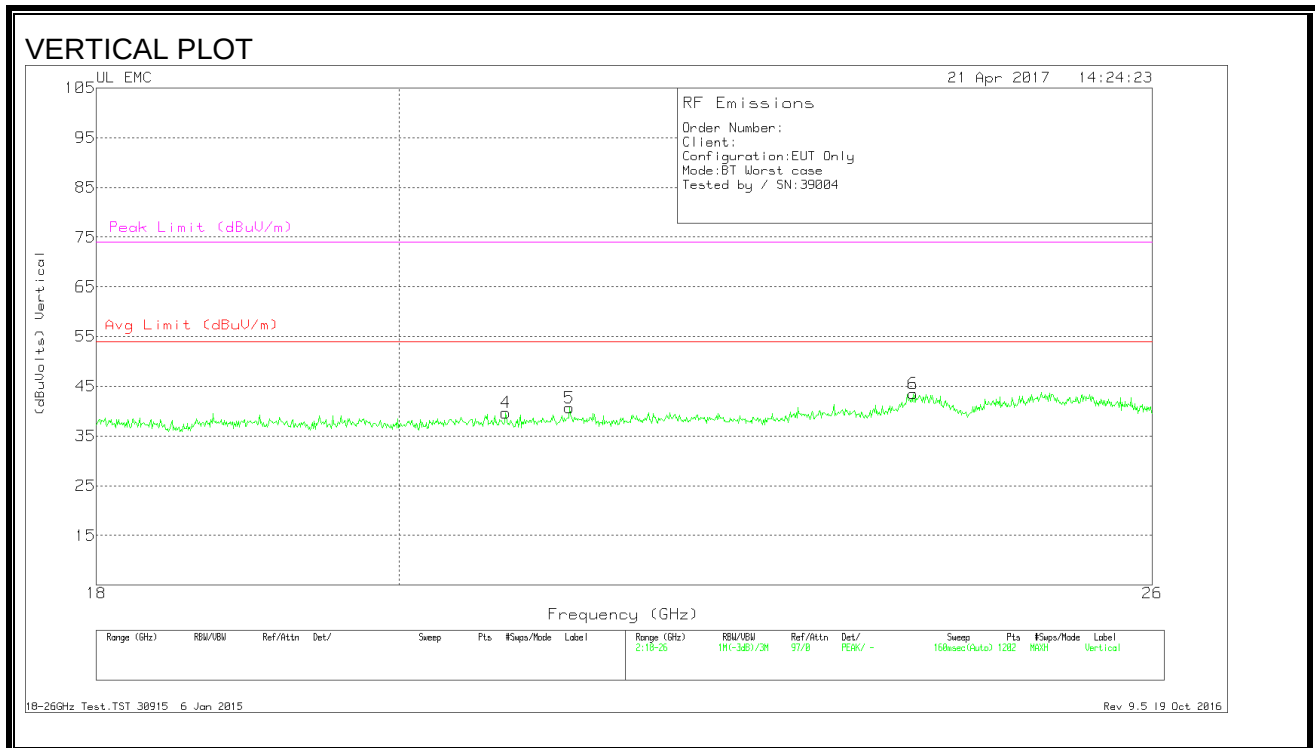
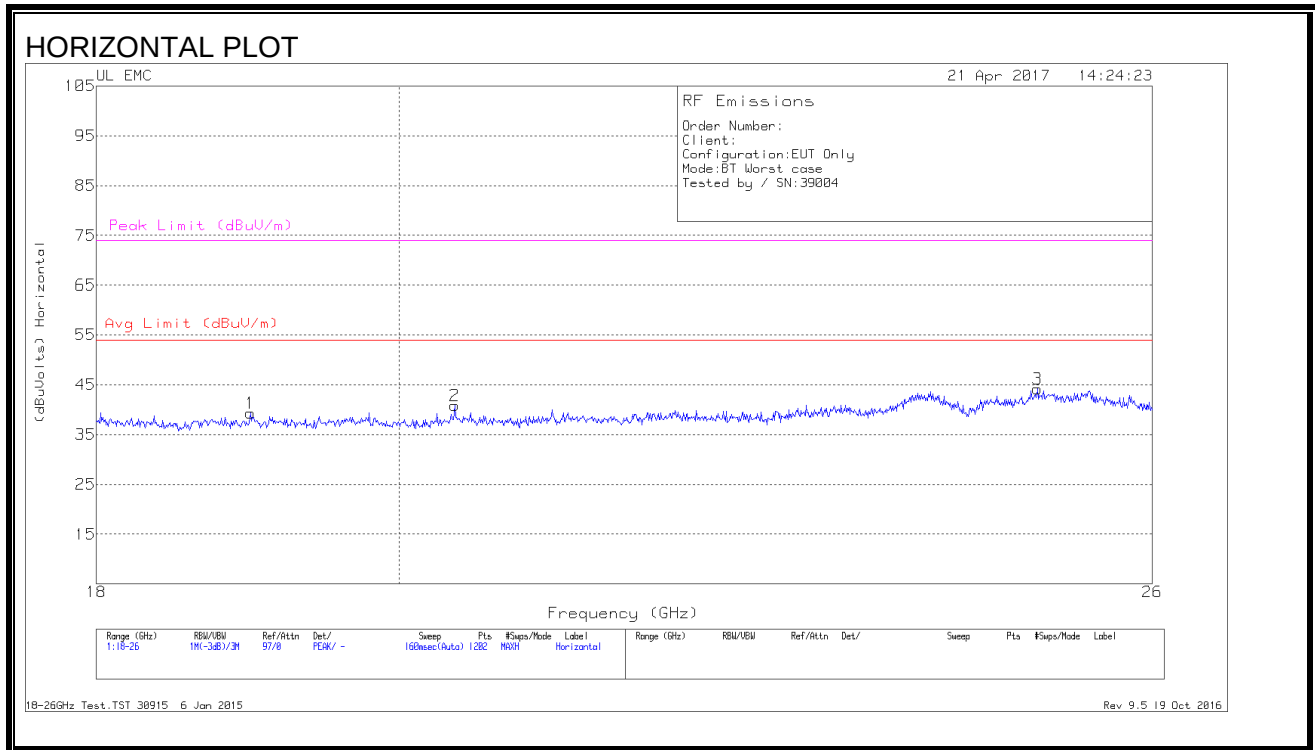
Pk - Peak detector

FCC Part15C 30-1000MHz.TST 30915 15 Jul 2014

Rev 9.5 01 Dec 2016

9.11. WORST-CASE ABOVE 18 GHz

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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (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	18.993	41.13	Pk	32.6	-24.9	-9.5	39.34	54	-14.66	74	-34.66
2	20.391	42.53	Pk	32.9	-25.1	-9.5	40.84	54	-13.16	74	-33.16
3	24.981	43.67	Pk	34.2	-24.2	-9.5	44.17	54	-9.83	74	-29.83
4	20.758	41.57	Pk	33	-25.4	-9.5	39.67	54	-14.33	74	-34.33
5	21.224	42.07	Pk	33.1	-25	-9.5	40.67	54	-13.33	74	-33.33
6	23.922	42.9	Pk	34	-23.9	-9.5	43.50	54	-10.5	74	-30.5

Pk - Peak detector

18-26GHz Test.TST 30915 6 Jan 2015

Rev 9.5 19 Oct 2016

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

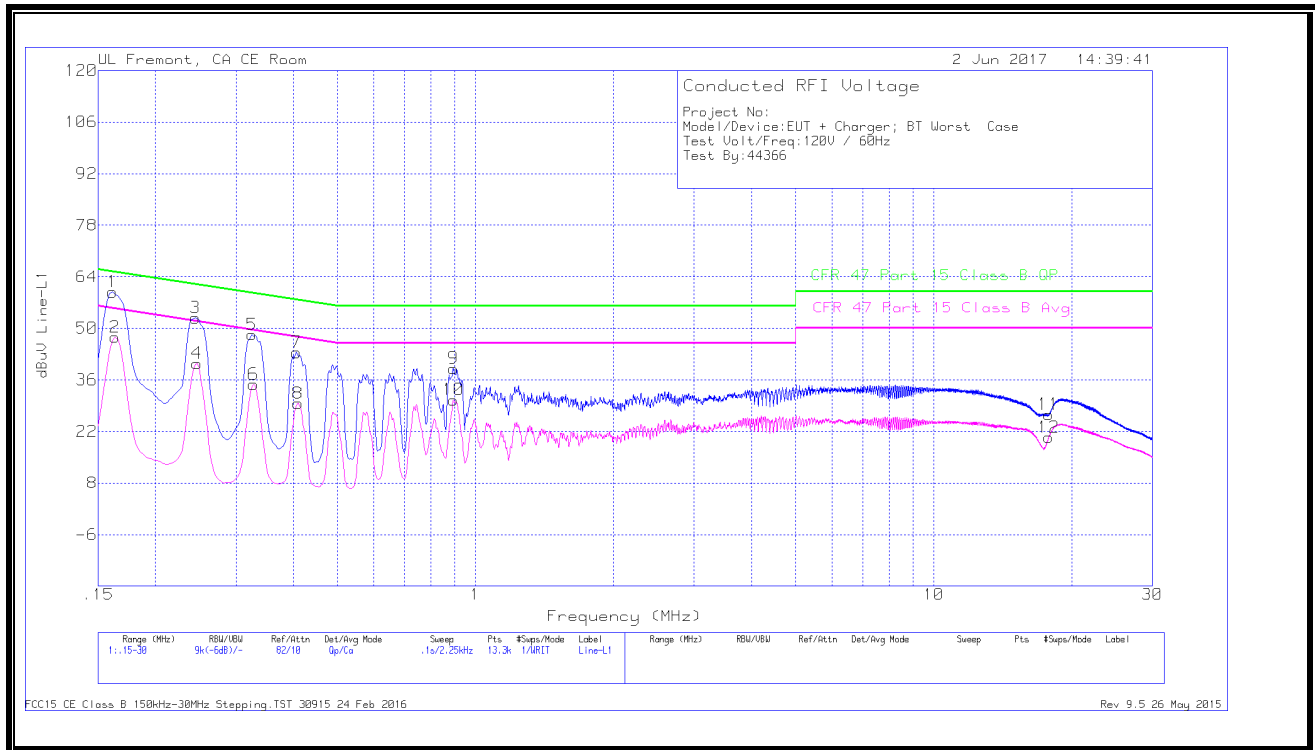
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

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

LINE 1 RESULTS



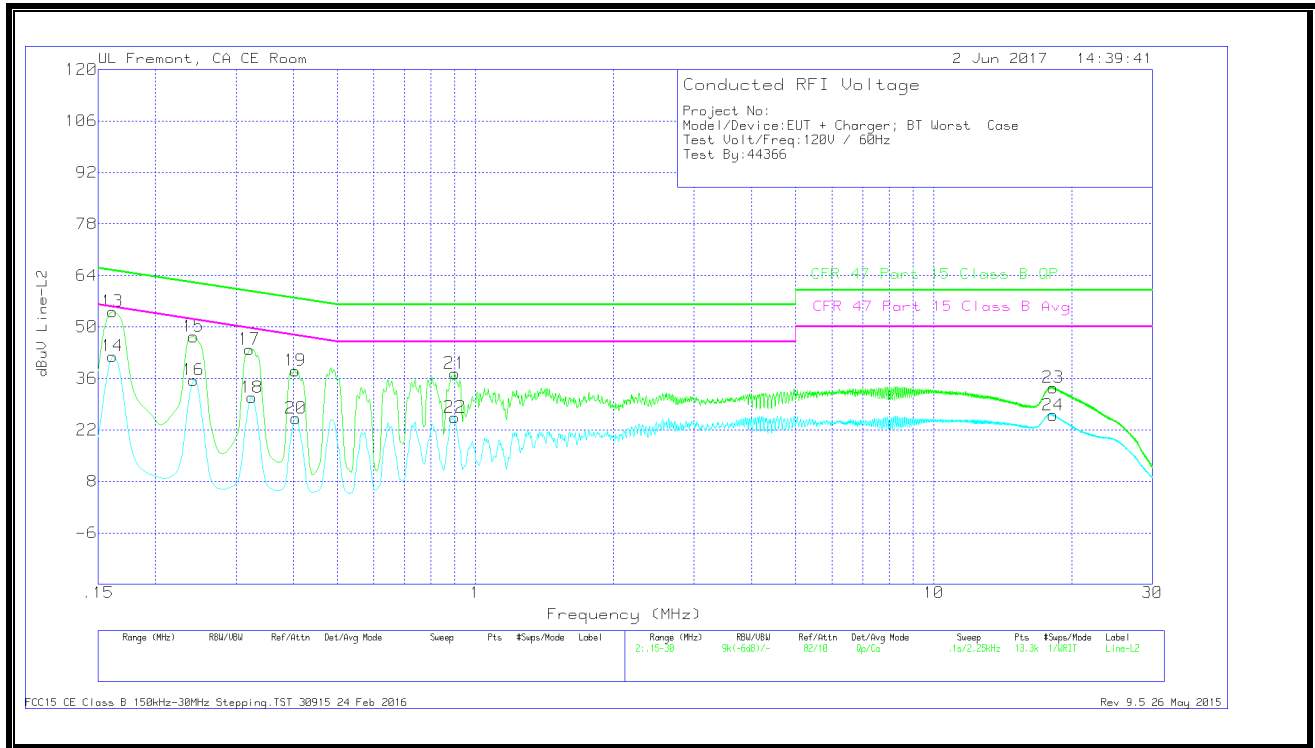
WORST EMISSIONS

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	49.66	Qp	0	.1	10.1	59.86	65.4	-5.54	-	-
2	.1635	37.39	Ca	0	.1	10.1	47.59	-	-	55.28	-7.69
3	.2445	42.66	Qp	0	.1	10.1	52.86	61.94	-9.08	-	-
4	.24675	30.3	Ca	0	.1	10.1	40.5	-	-	51.87	-11.37
5	.3255	38.1	Qp	0	.1	10.1	48.3	59.57	-11.27	-	-
6	.32775	24.62	Ca	0	.1	10.1	34.82	-	-	49.51	-14.69
7	.4065	33.25	Qp	0	.1	10.1	43.45	57.72	-14.27	-	-
8	.40987	19.42	Ca	0	.1	10.1	29.62	-	-	47.65	-18.03
9	.89475	28.91	Qp	0	.1	10.1	39.11	56	-16.89	-	-
10	.89475	20.39	Ca	0	.1	10.1	30.59	-	-	46	-15.41
11	17.8283	16.02	Qp	0	.3	10.3	26.62	60	-33.38	-	-
12	17.8283	9.81	Ca	0	.3	10.3	20.41	-	-	50	-29.59

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

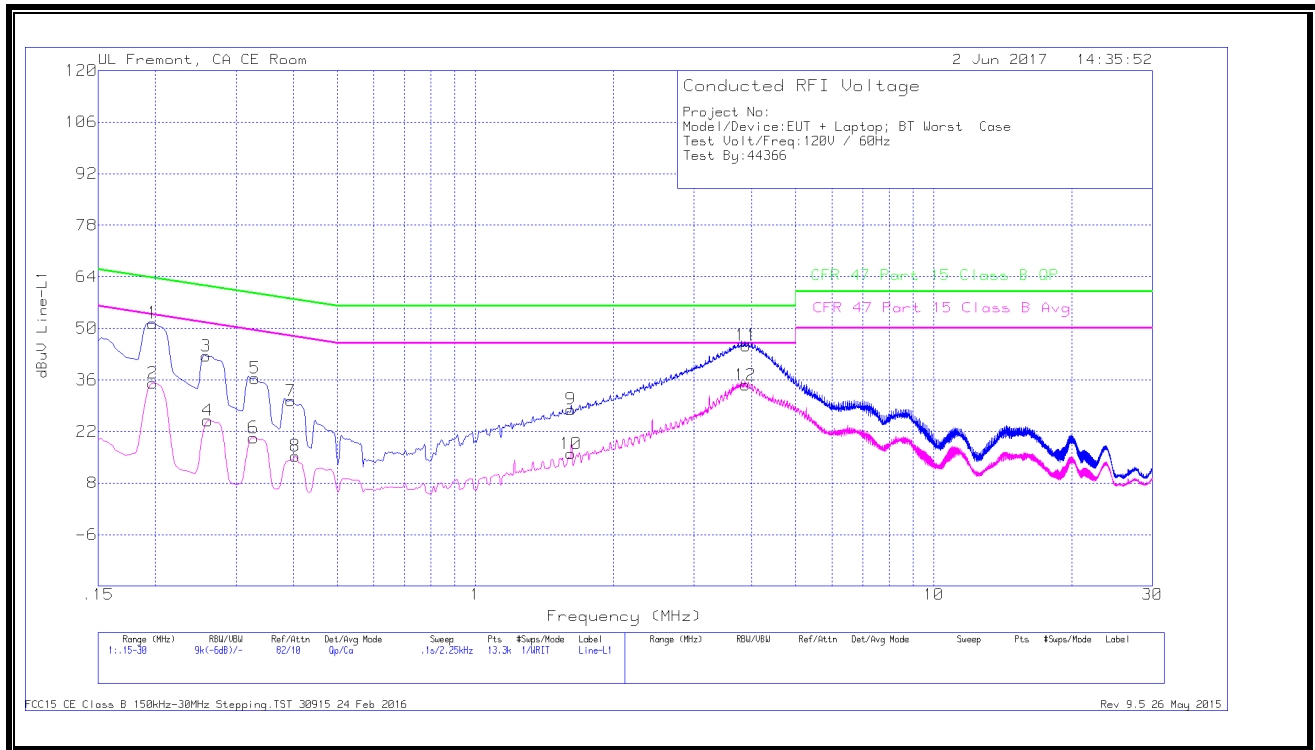
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.16125	44	Qp	0	.1	10.1	54.2	65.4	-11.2	-	-
14	.16125	31.86	Ca	0	.1	10.1	42.06	-	-	55.4	-13.34
15	.24225	37.18	Qp	0	.1	10.1	47.38	62.02	-14.64	-	-
16	.24225	25.36	Ca	0	.1	10.1	35.56	-	-	52.02	-16.46
17	.321	33.69	Qp	0	.1	10.1	43.89	59.68	-15.79	-	-
18	.3255	20.66	Ca	0	.1	10.1	30.86	-	-	49.57	-18.71
19	.40425	27.92	Qp	0	.1	10.1	38.12	57.77	-19.65	-	-
20	.40537	14.93	Ca	0	.1	10.1	25.13	-	-	47.74	-22.61
21	.9015	27.18	Qp	0	.1	10.1	37.38	56	-18.62	-	-
22	.9015	15.22	Ca	0	.1	10.1	25.42	-	-	46	-20.58
23	18.2063	22.89	Qp	0	.3	10.3	33.49	60	-26.51	-	-
24	18.2085	15.41	Ca	0	.3	10.3	26.01	-	-	50	-23.99

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS



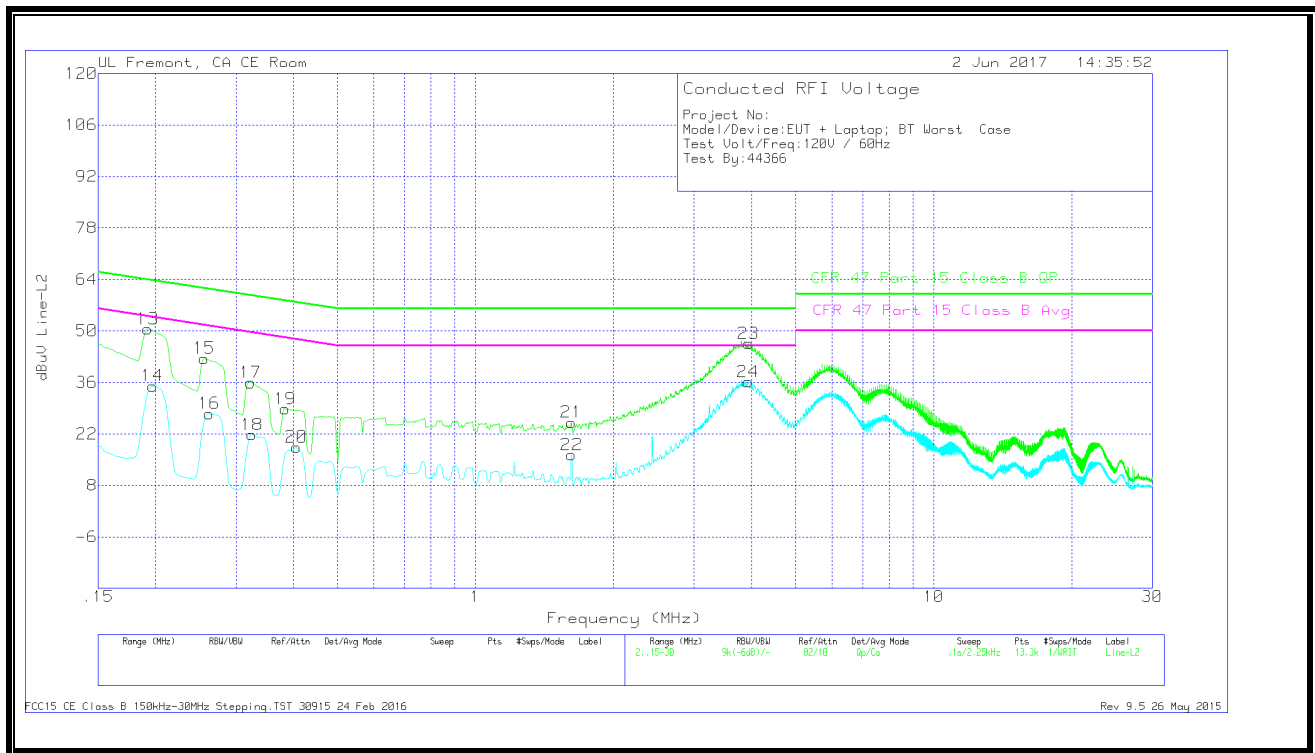
WORST EMISSIONS

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	41.24	Qp	0	.1	10.1	51.44	63.73	-12.29	-	-
2	.19725	24.91	Ca	0	.1	10.1	35.11	-	-	53.73	-18.62
3	.258	32.25	Qp	0	.1	10.1	42.45	61.5	-19.05	-	-
4	.26025	14.77	Ca	0	.1	10.1	24.97	-	-	51.42	-26.45
5	.33	26.24	Qp	0	.1	10.1	36.44	59.45	-23.01	-	-
6	.32775	10.08	Ca	0	.1	10.1	20.28	-	-	49.51	-29.23
7	.39525	20.1	Qp	0	.1	10.1	30.3	57.95	-27.65	-	-
8	.40425	5.12	Ca	0	.1	10.1	15.32	-	-	47.77	-32.45
9	1.61475	17.82	Qp	0	.1	10.1	28.02	56	-27.98	-	-
10	1.61475	5.76	Ca	0	.1	10.1	15.96	-	-	46	-30.04
11	3.89625	35.11	Qp	0	.1	10.1	45.31	56	-10.69	-	-
12	3.88275	24.38	Ca	0	.1	10.1	34.58	-	-	46	-11.42

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

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	40.28	Qp	0	.1	10.1	50.48	63.92	-13.44	-	-
14	.19725	24.83	Ca	0	.1	10.1	35.03	-	-	53.73	-18.7
15	.25575	32.33	Qp	0	.1	10.1	42.53	61.57	-19.04	-	-
16	.2625	17.31	Ca	0	.1	10.1	27.51	-	-	51.35	-23.84
17	.32325	25.73	Qp	0	.1	10.1	35.93	59.62	-23.69	-	-
18	.3255	11.56	Ca	0	.1	10.1	21.76	-	-	49.57	-27.81
19	.384	18.56	Qp	0	.1	10.1	28.76	58.19	-29.43	-	-
20	.4065	8.23	Ca	0	.1	10.1	18.43	-	-	47.72	-29.29
21	1.61925	14.91	Qp	0	.1	10.1	25.11	56	-30.89	-	-
22	1.6215	6.13	Ca	0	.1	10.1	16.33	-	-	46	-29.67
23	3.9435	36.36	Qp	0	.1	10.1	46.56	56	-9.44	-	-
24	3.93675	25.97	Ca	0	.1	10.1	36.17	-	-	46	-9.83

Qp - Quasi-Peak detector

Ca - CISPR average detection