

7.9.5. OUTPUT POWER

ID:	30554	Date:	6/14/2017
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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	19.65	21	-1.35
Middle	2441	19.75	21	-1.25
High	2480	19.70	21	-1.30

7.9.6. AVERAGE POWER

ID:	30554	Date:	6/14/2017
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LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a 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	17.35
Middle	2441	17.45
High	2480	17.38

7.9.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-247 (5.5)

Limit = -20 dBc

TEST PROCEDURE

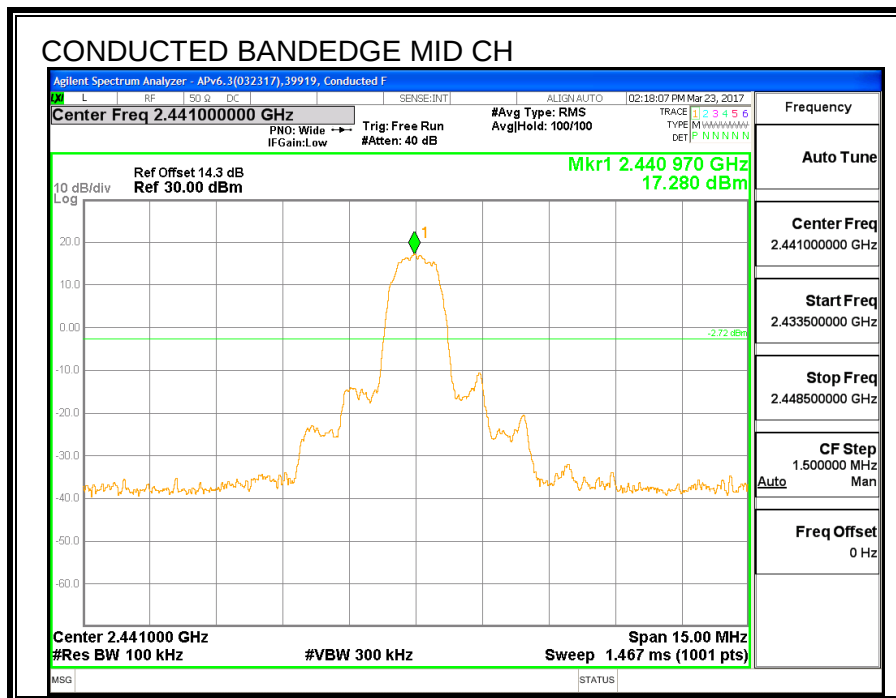
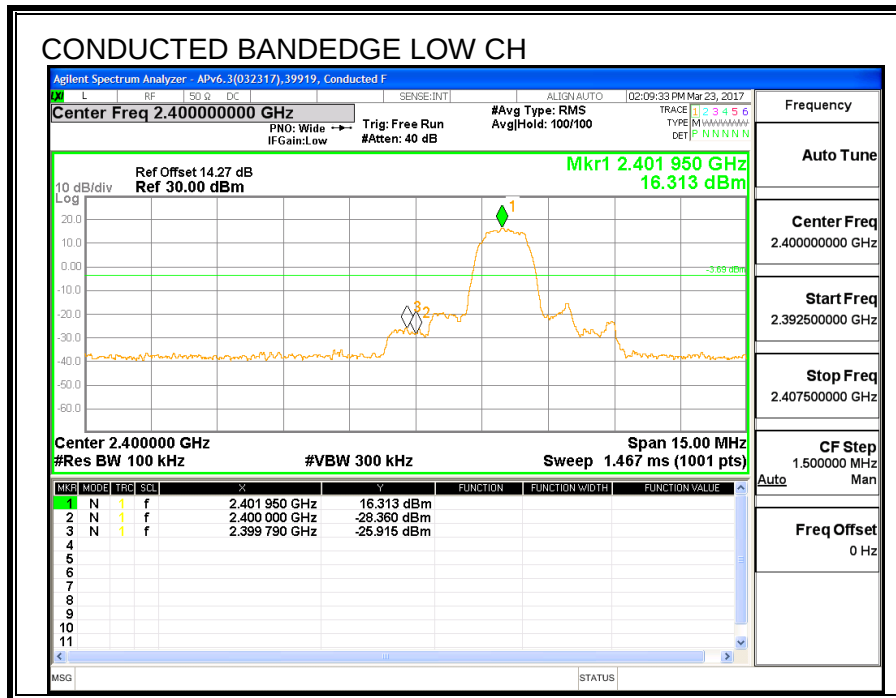
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

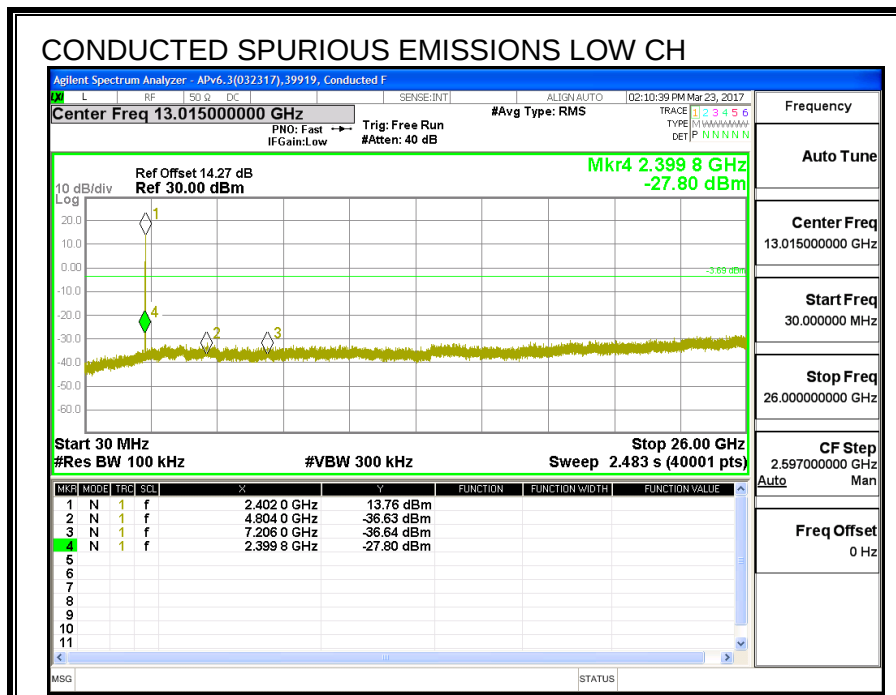
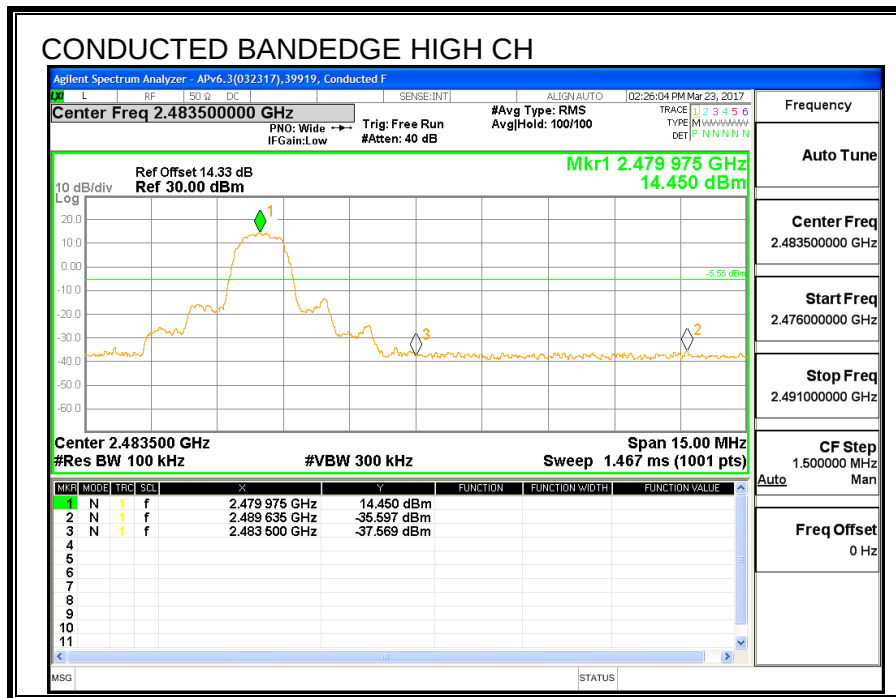
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

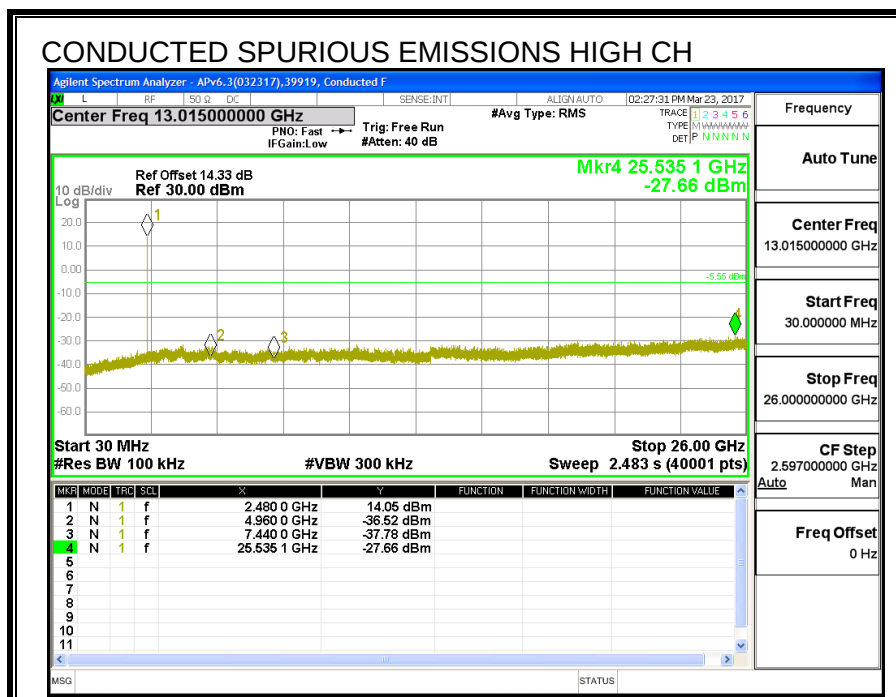
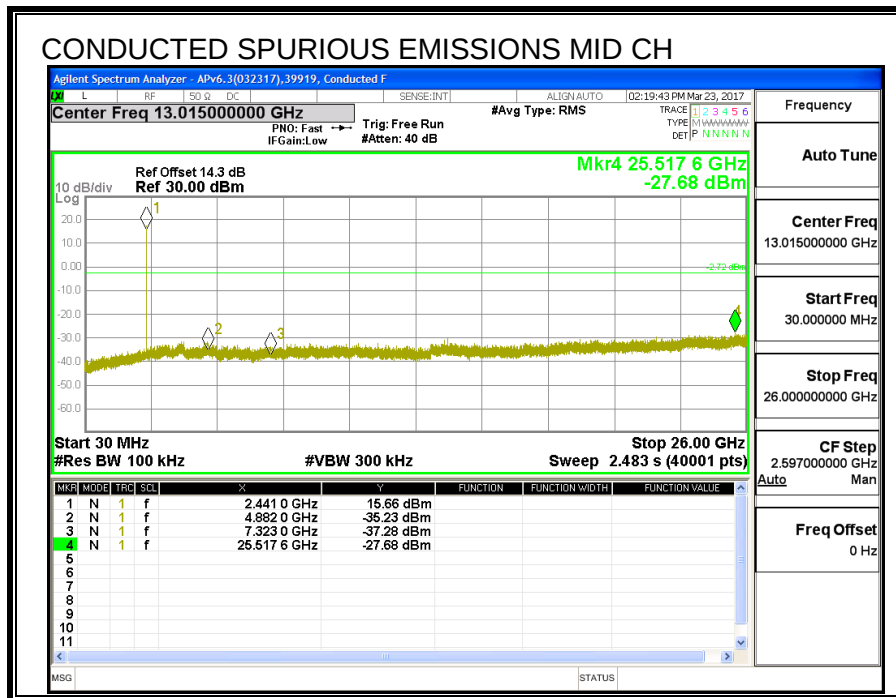
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

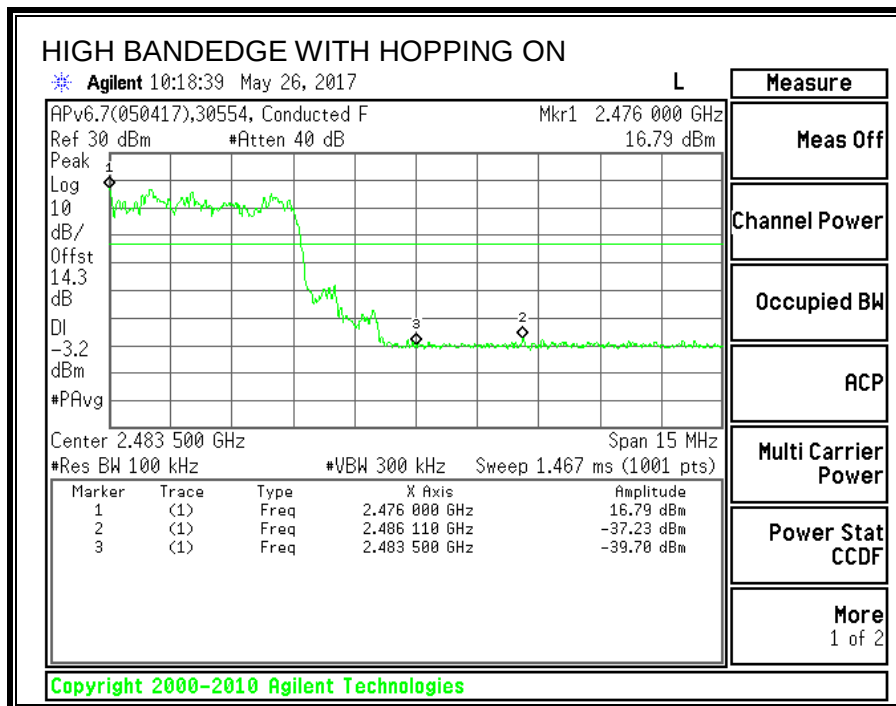
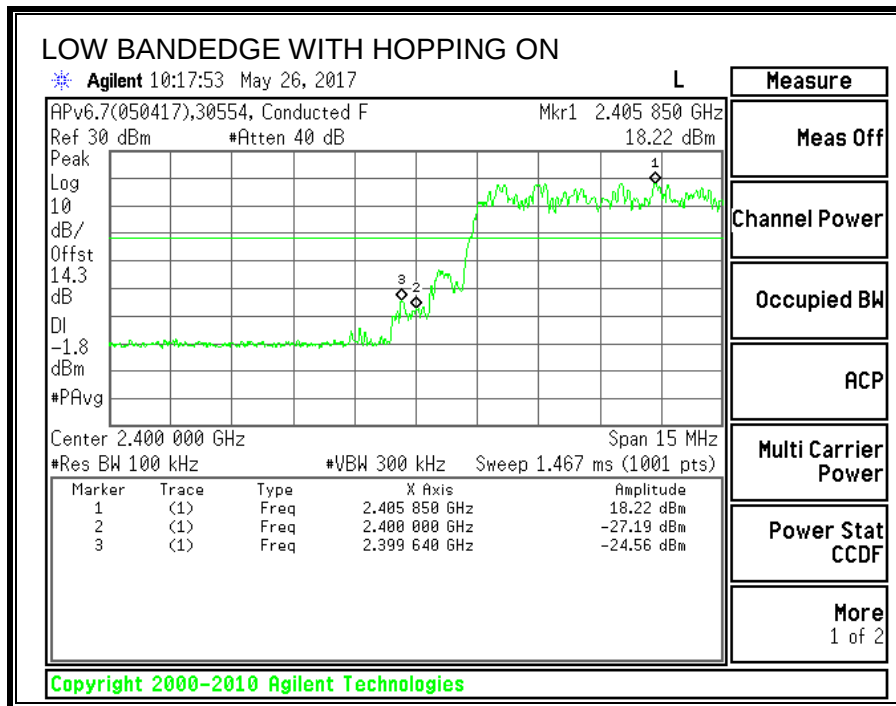
RESULTS

CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS









7.10. LAT 3, PLOW BASIC DATA RATE GFSK MODULATION

7.10.1. 20 dB AND 99% BANDWIDTH

LIMITS

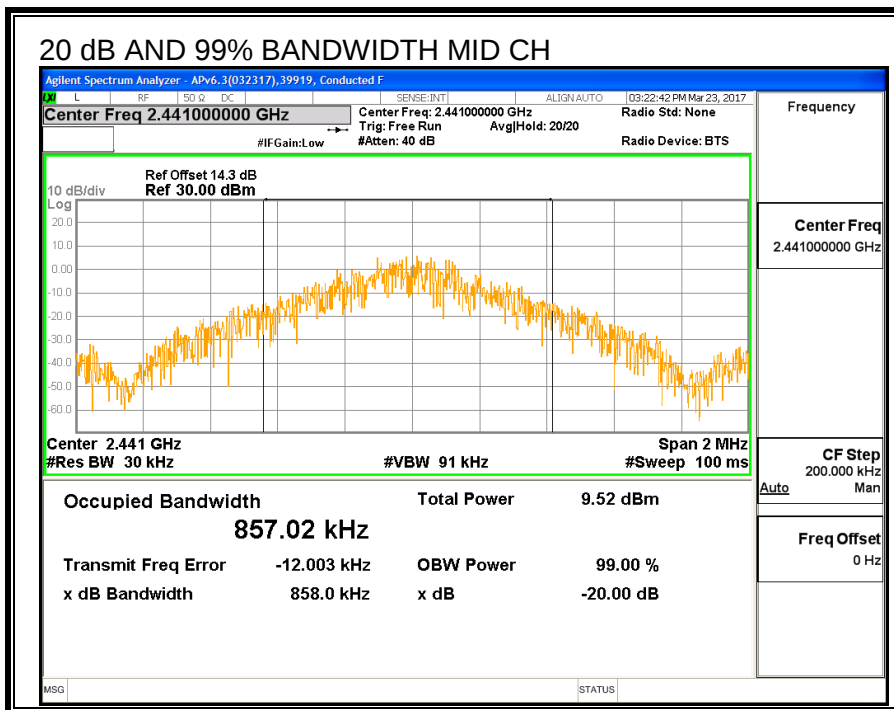
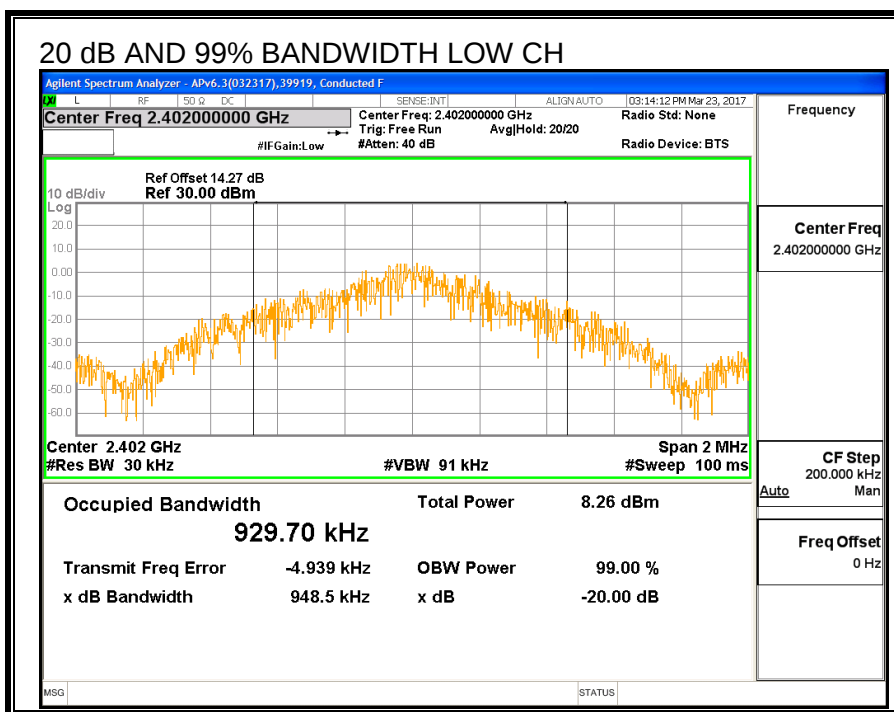
None; for reporting purposes only.

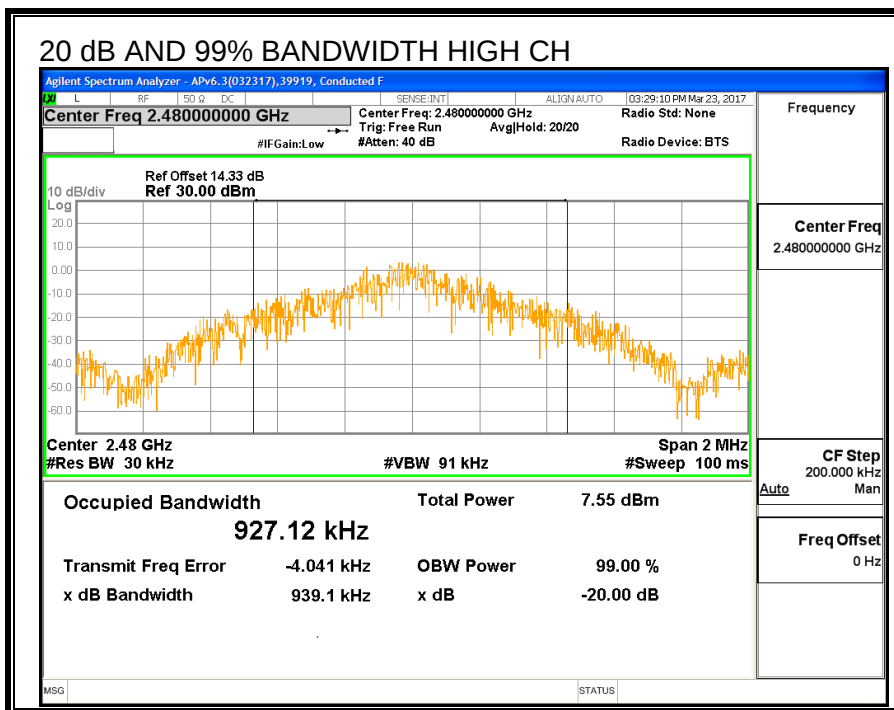
TEST PROCEDURE

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)	20 dB Bandwidth (KHz)	99% Bandwidth (KHz)
Low	2402	948.5	929.70
Middle	2441	858.0	857.02
High	2480	939.1	927.12





7.10.2. HOPPING FREQUENCY SEPARATION

LIMITS

FCC §15.247 (a) (1)

IC RSS-247 (5.1) (b)

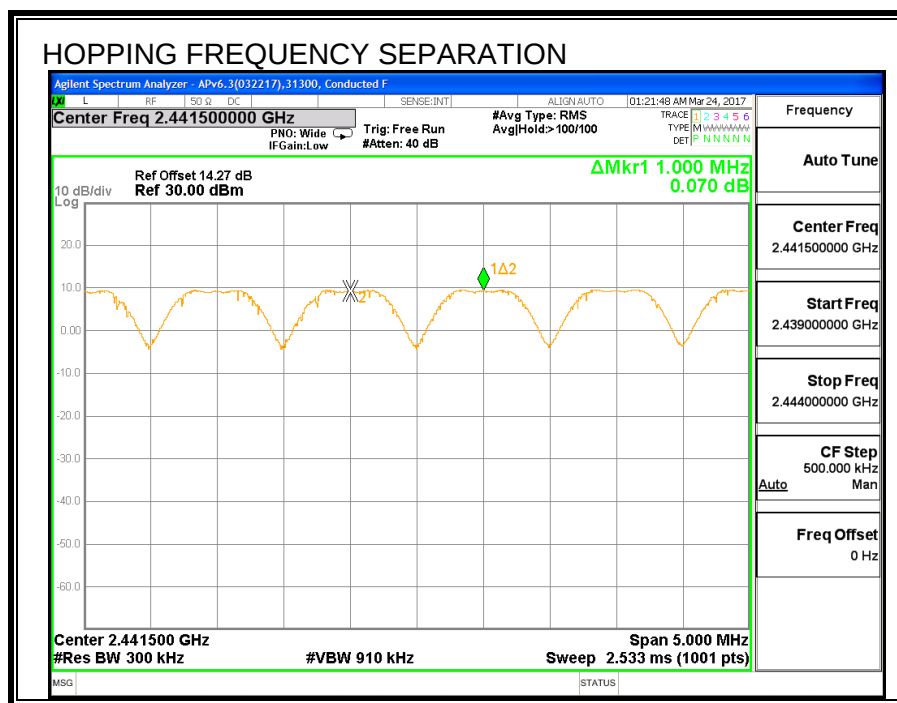
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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



7.10.3. NUMBER OF HOPPING CHANNELS

LIMITS

FCC §15.247 (a) (1) (iii)

IC RSS-247 (5.1) (d)

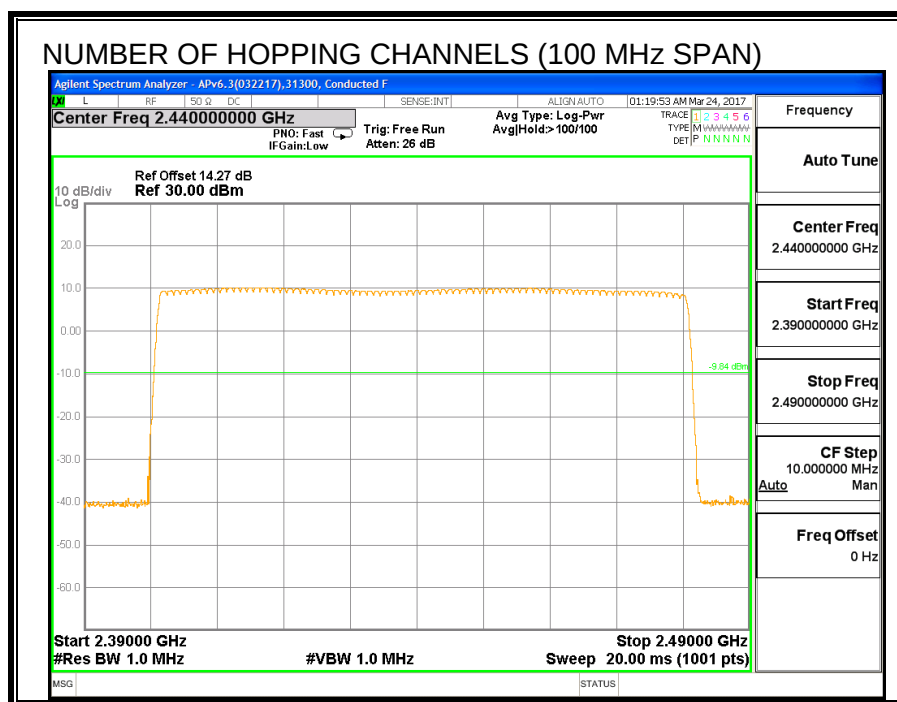
Frequency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 non-overlapping channels.

TEST PROCEDURE

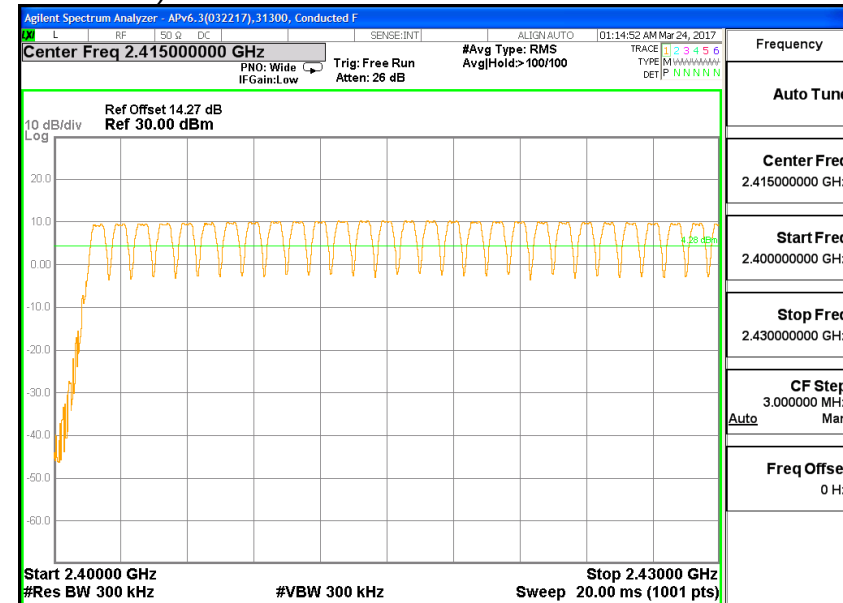
The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

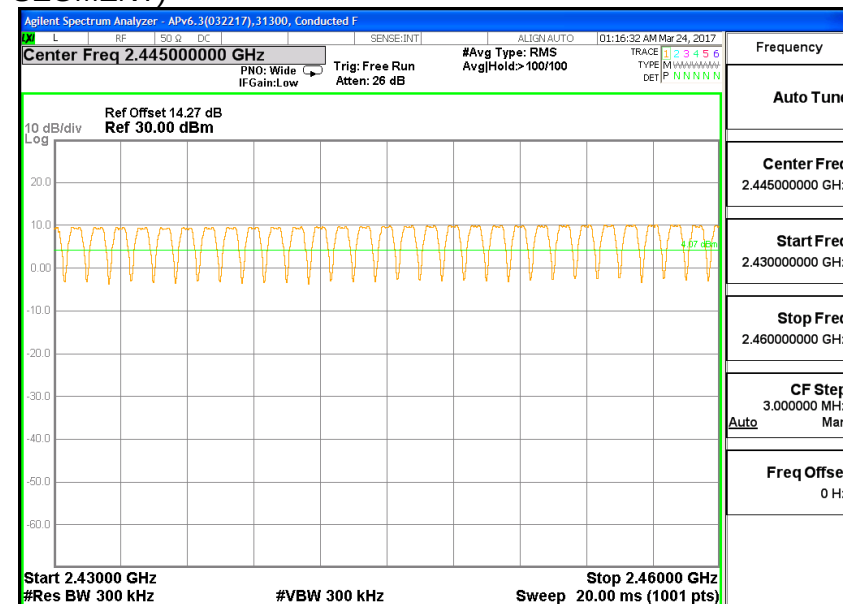
Normal Mode: 79 Channels observed.

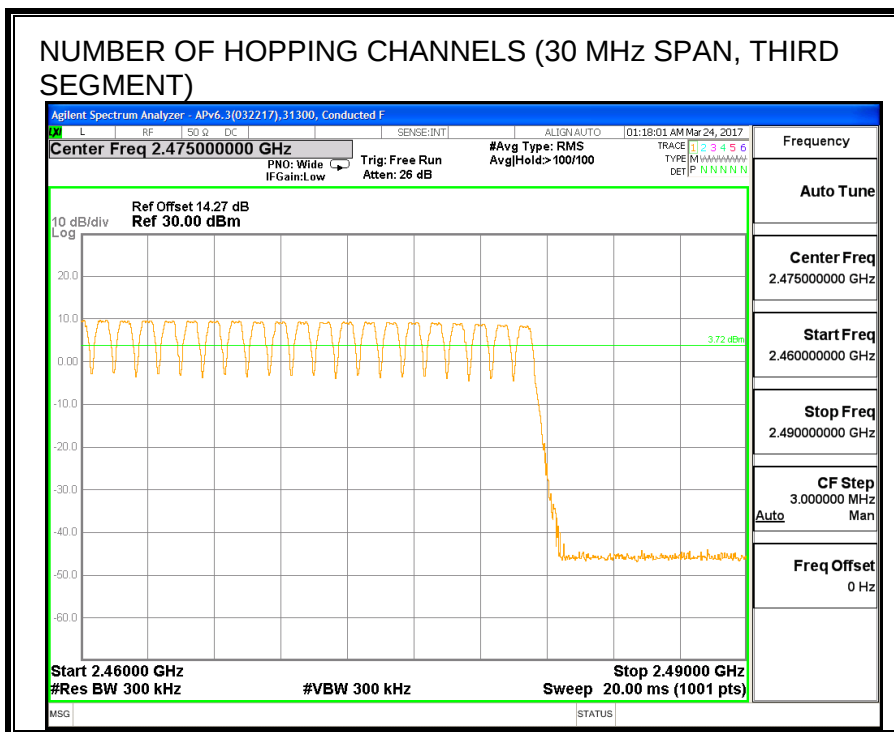


NUMBER OF HOPPING CHANNELS (30 MHz SPAN, FIRST SEGMENT)



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





7.10.4. 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

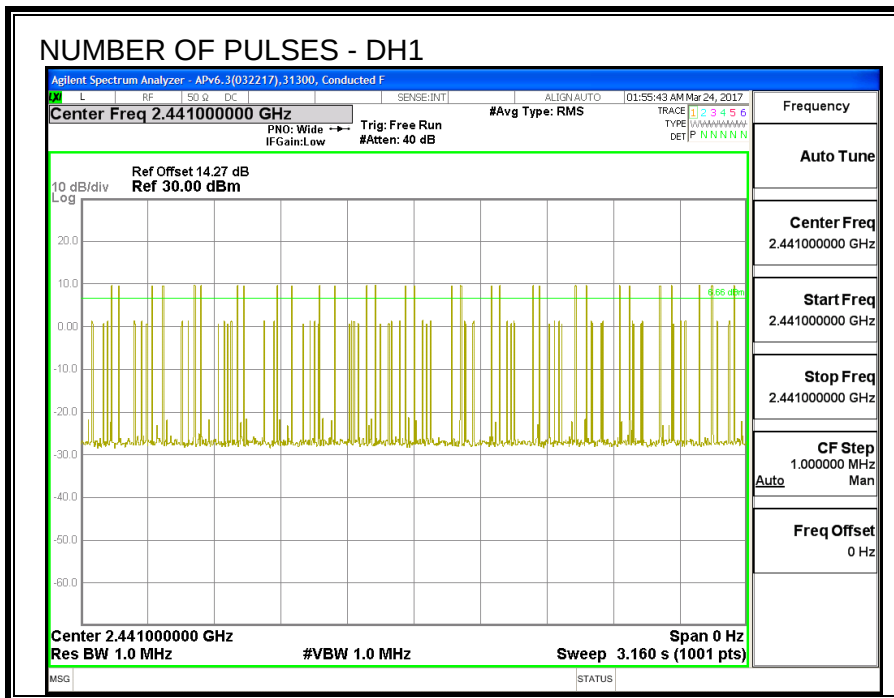
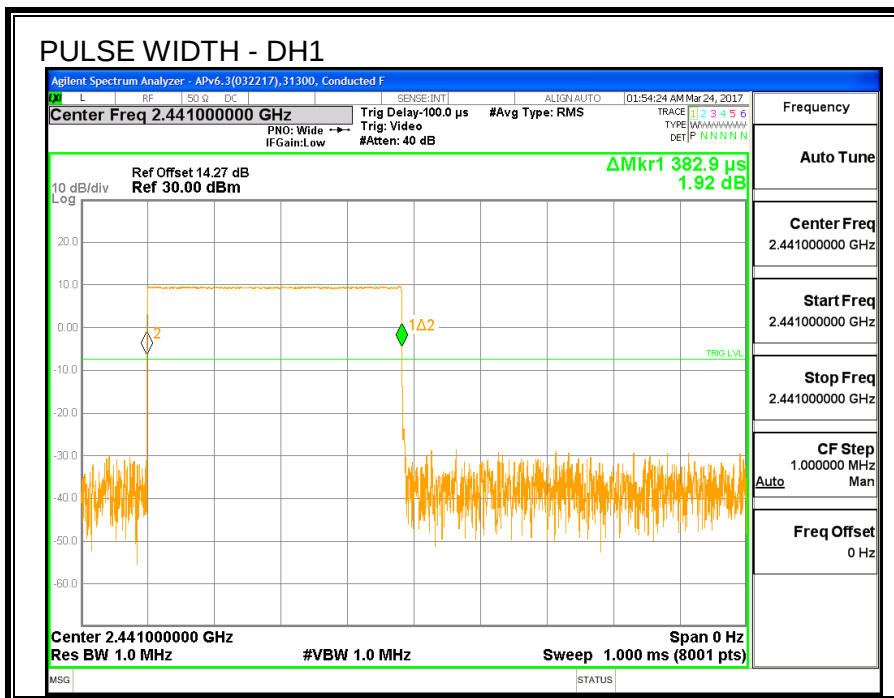
The transmitter output is connected to a spectrum analyzer. The span is set to 0 Hz, centered on a single, selected hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured in a 3.16 second scan, to enable resolution of each occurrence.

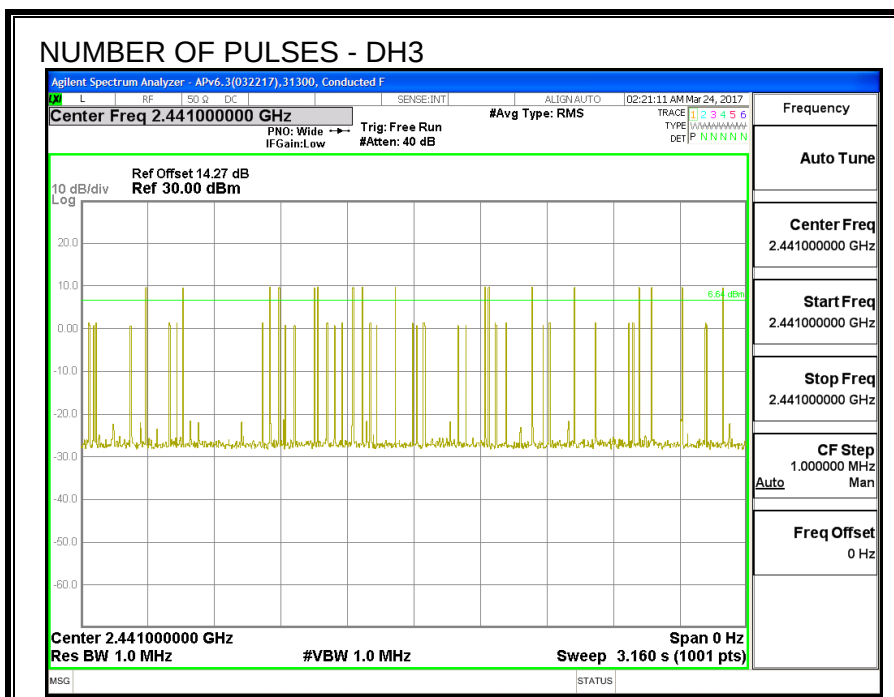
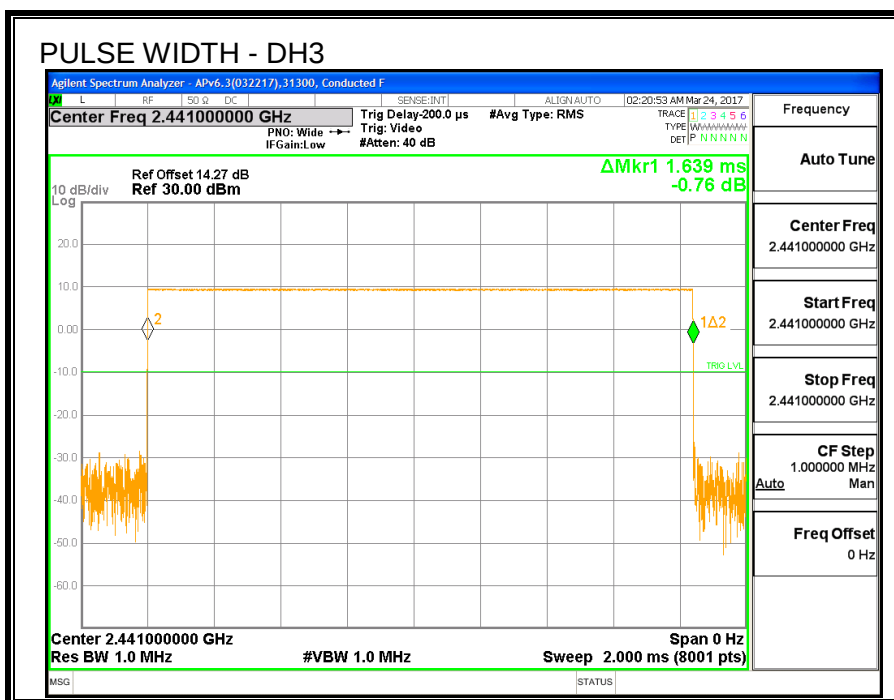
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{pulse width}$.

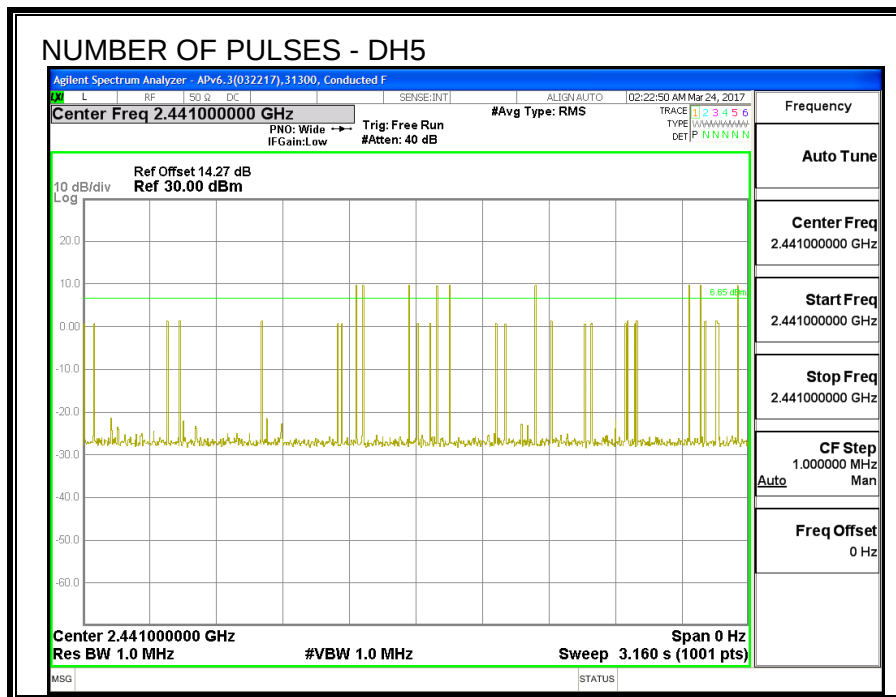
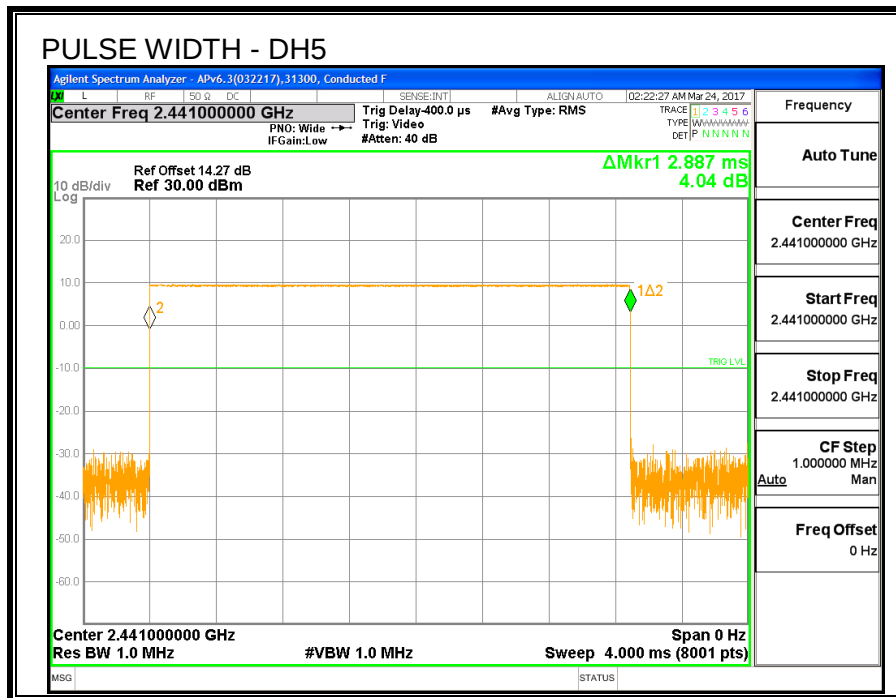
For AFH mode, the average time of occupancy in the specified 8 second period (20 channels * 0.4 seconds) is equal to $10 * (\# \text{ of pulses in } 0.8 \text{ s}) * \text{pulse width}$.

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	0.3829	32	0.123	0.4	-0.277
DH3	1.639	17	0.279	0.4	-0.121
DH5	2.887	10	0.289	0.4	-0.111
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	0.3829	8	0.031	0.4	-0.369
DH3	1.639	4.25	0.070	0.4	-0.330
DH5	2.887	2.5	0.072	0.4	-0.328







7.10.5. 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	10.05	30	-19.95
Middle	2441	10.15	30	-19.85
High	2480	10.10	30	-19.90

7.10.6. AVERAGE POWER

ID:	30554	Date:	6/14/2017
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LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a 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	9.75
Middle	2441	9.85
High	2480	9.80

7.10.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-247 (5.5)

Limit = -20 dBc

TEST PROCEDURE

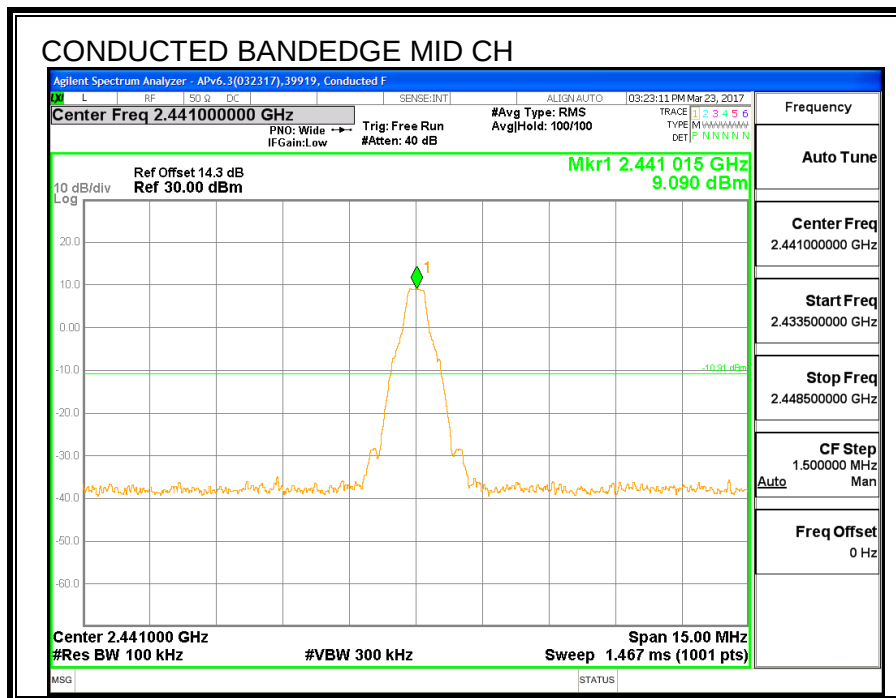
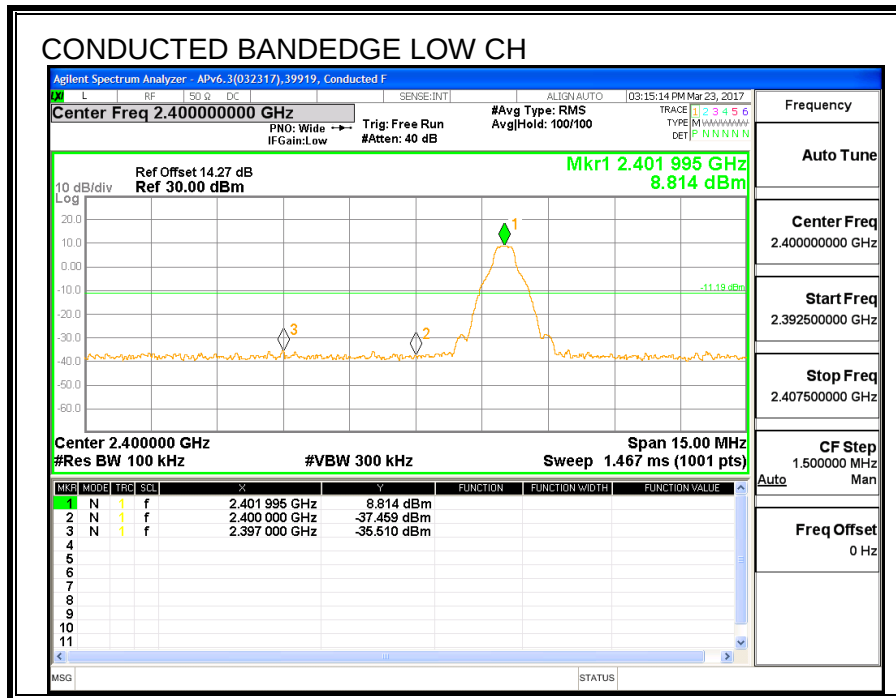
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

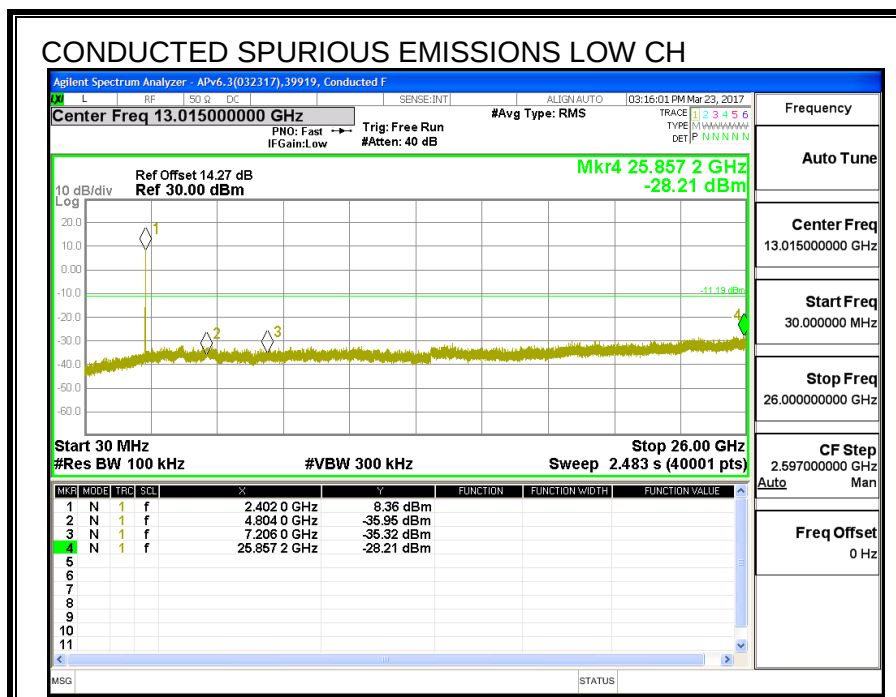
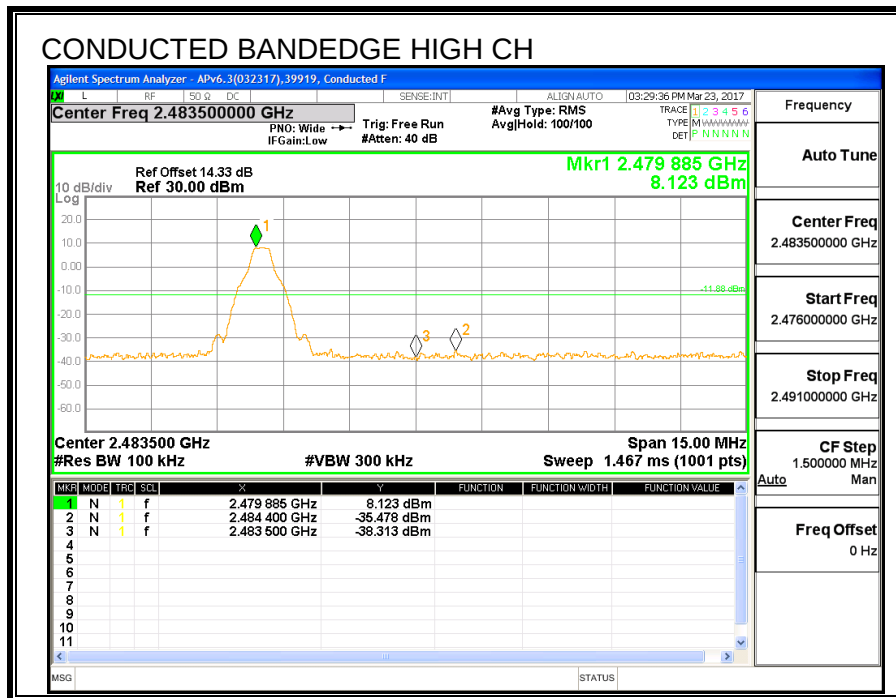
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

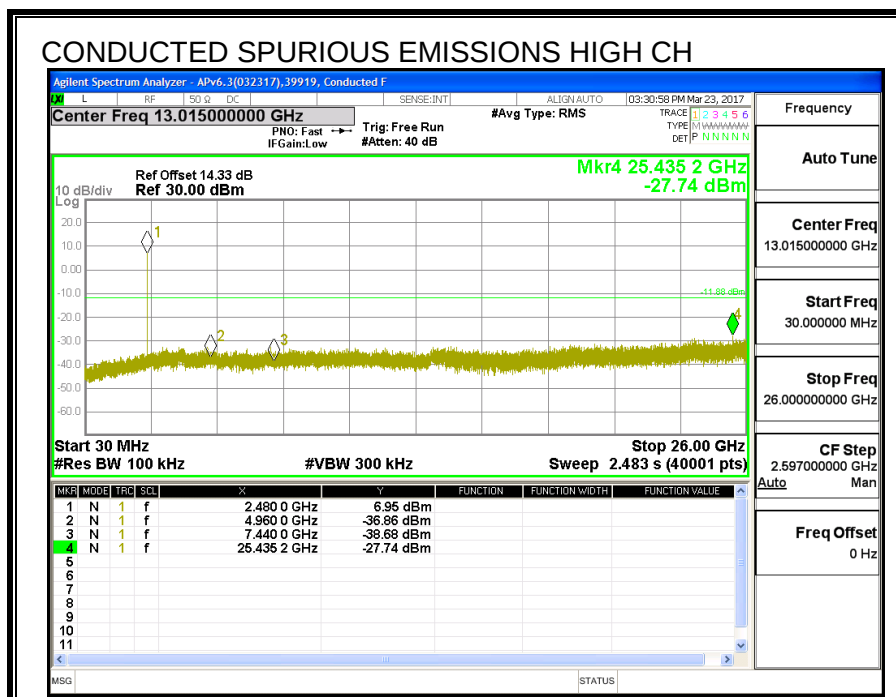
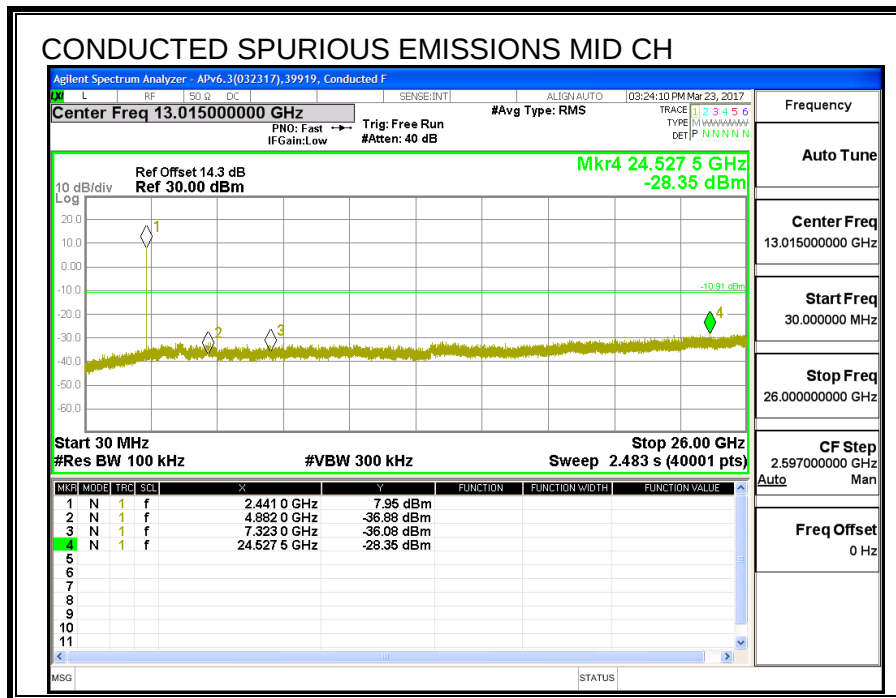
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

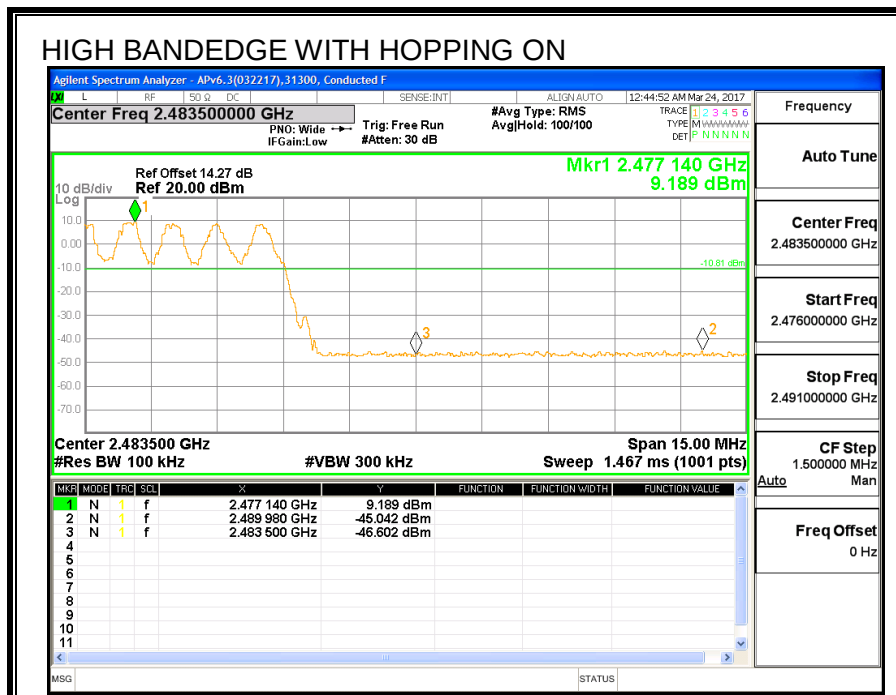
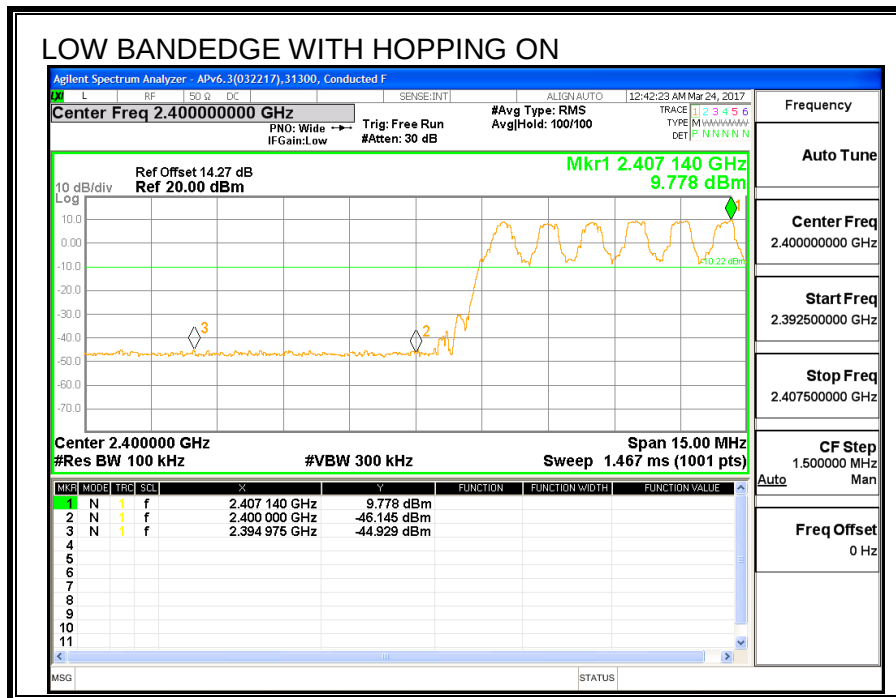
RESULTS

CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS









7.11. LAT 3, PLOW ENHANCED DATA RATE DQPSK MODULATION

7.11.1. OUTPUT POWER

ID:	30554	Date:	6/14/2017
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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	10.12	30	-19.95
Middle	2441	10.21	30	-19.88
High	2480	10.23	30	-19.85

7.11.2. AVERAGE POWER

ID:	30554	Date:	6/14/2017
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LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a 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	7.75
Middle	2441	7.80
High	2480	7.82

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

7.12.1. 20 dB AND 99% BANDWIDTH

LIMITS

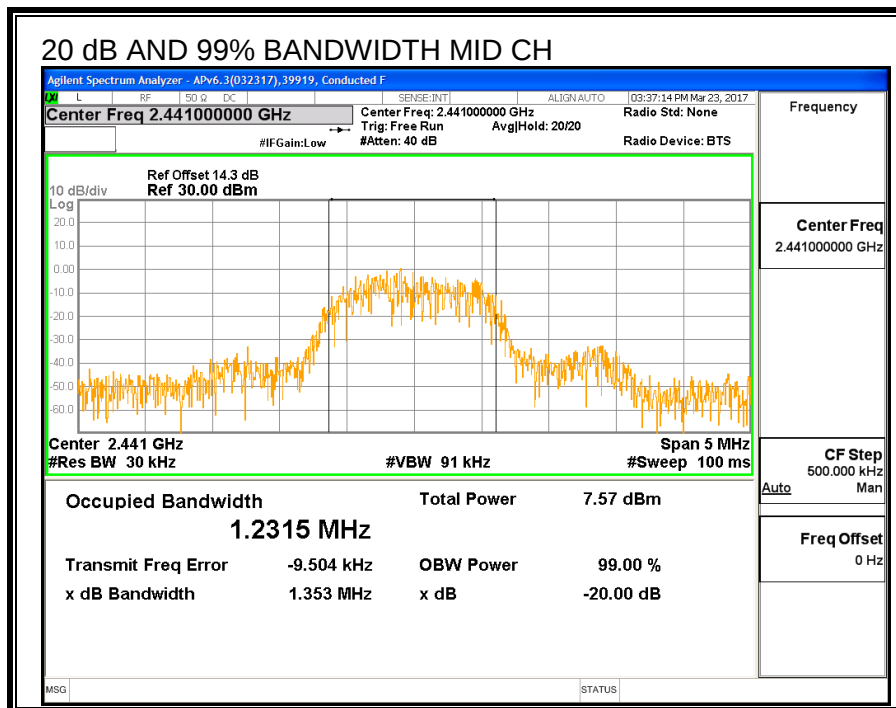
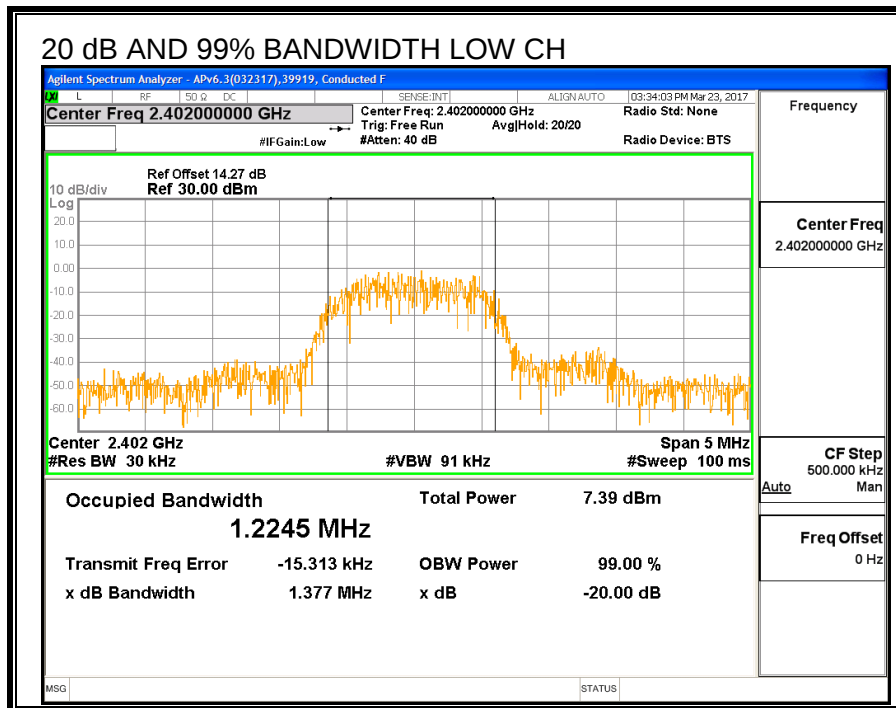
None; for reporting purposes only.

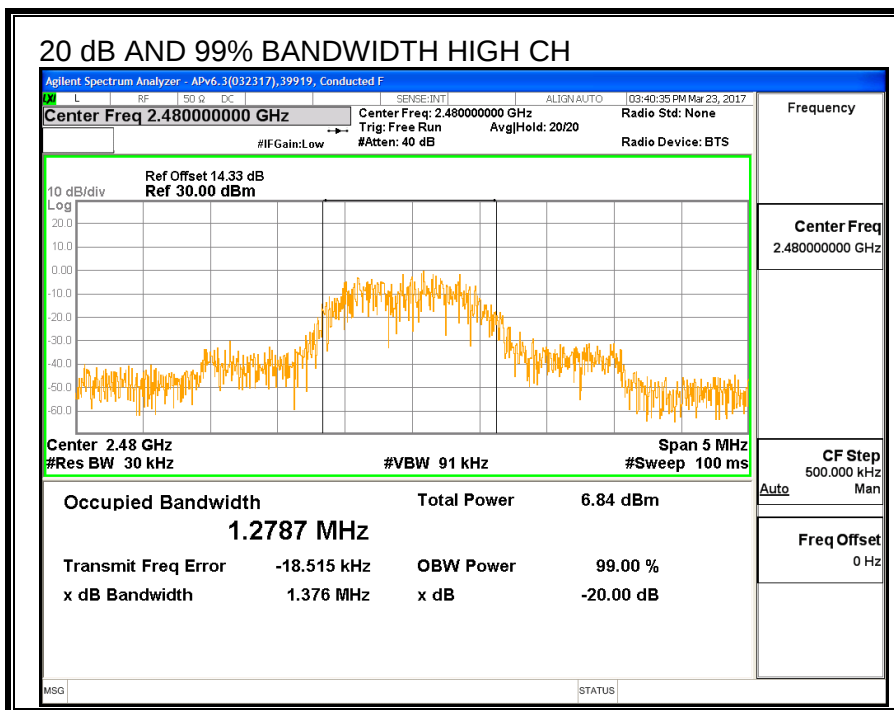
TEST PROCEDURE

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)	20 dB Bandwidth (KHz)	99% Bandwidth (KHz)
Low	2402	1377	1224.5
Middle	2441	1353	1231.5
High	2480	1376	1278.7





7.12.2. HOPPING FREQUENCY SEPARATION

LIMITS

FCC §15.247 (a) (1)

IC RSS-247 (5.1) (b)

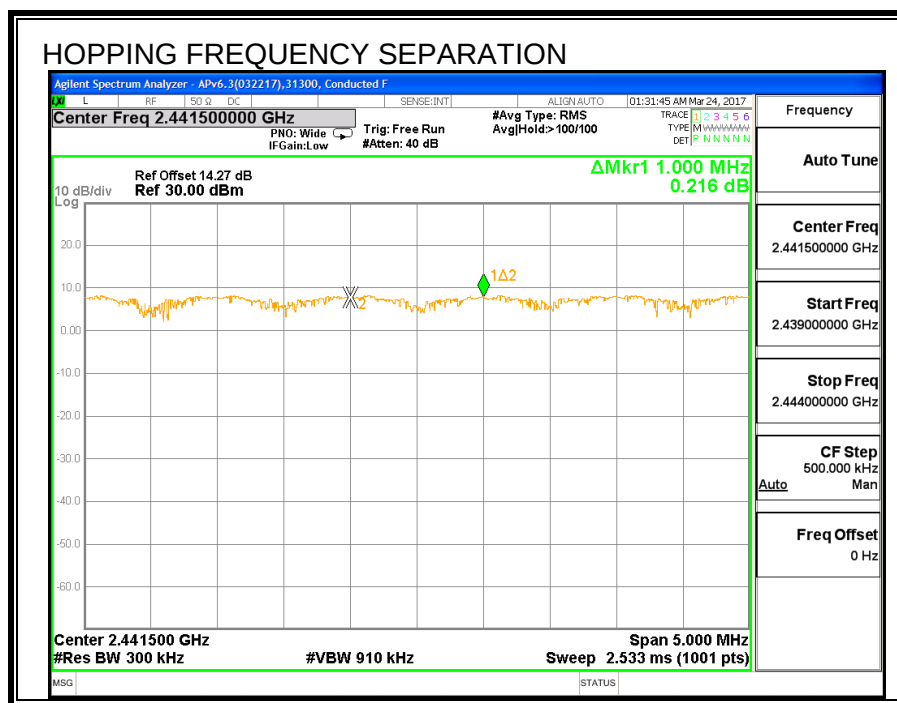
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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



7.12.3. NUMBER OF HOPPING CHANNELS

LIMITS

FCC §15.247 (a) (1) (iii)

IC RSS-247 (5.1) (d)

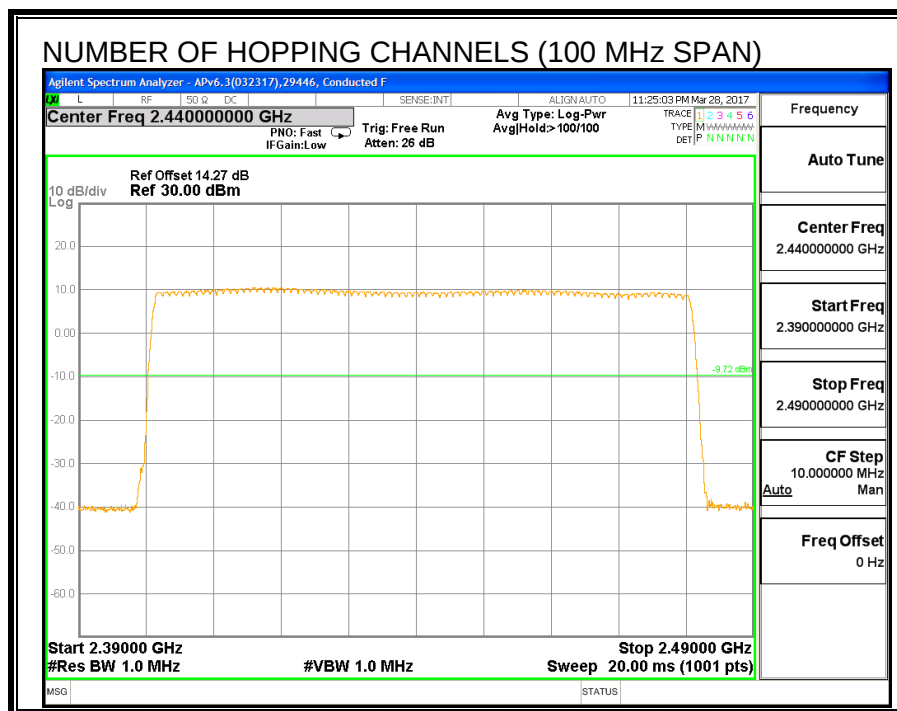
Frequency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 non-overlapping channels.

TEST PROCEDURE

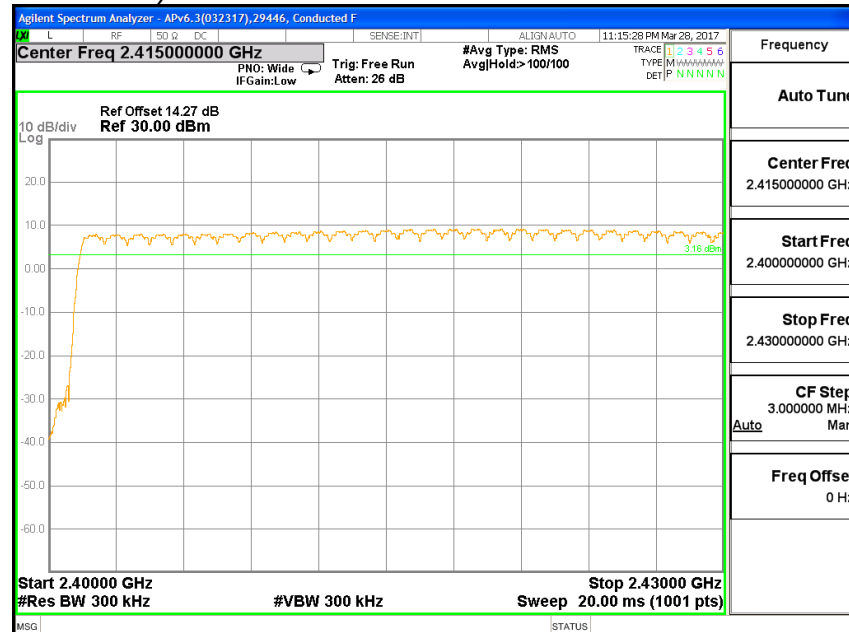
The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

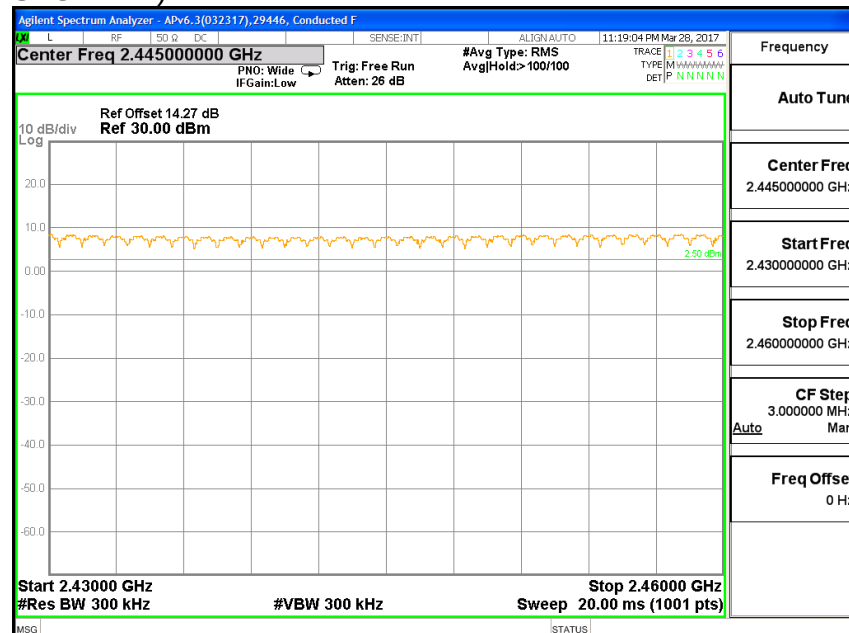
Normal Mode: 79 Channels observed.

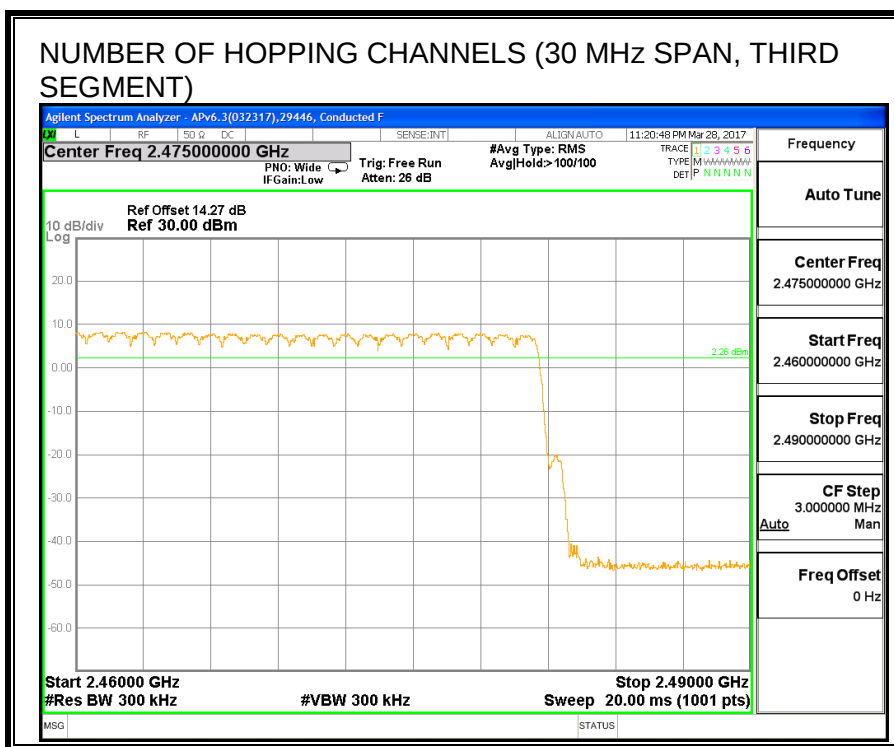


NUMBER OF HOPPING CHANNELS (30 MHz SPAN, FIRST SEGMENT)



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





7.12.4. 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

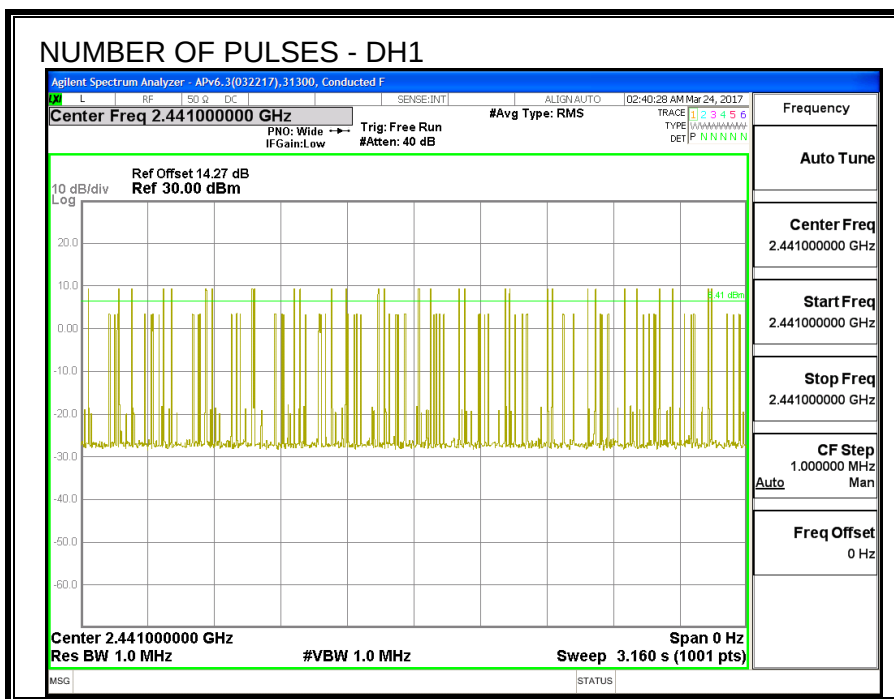
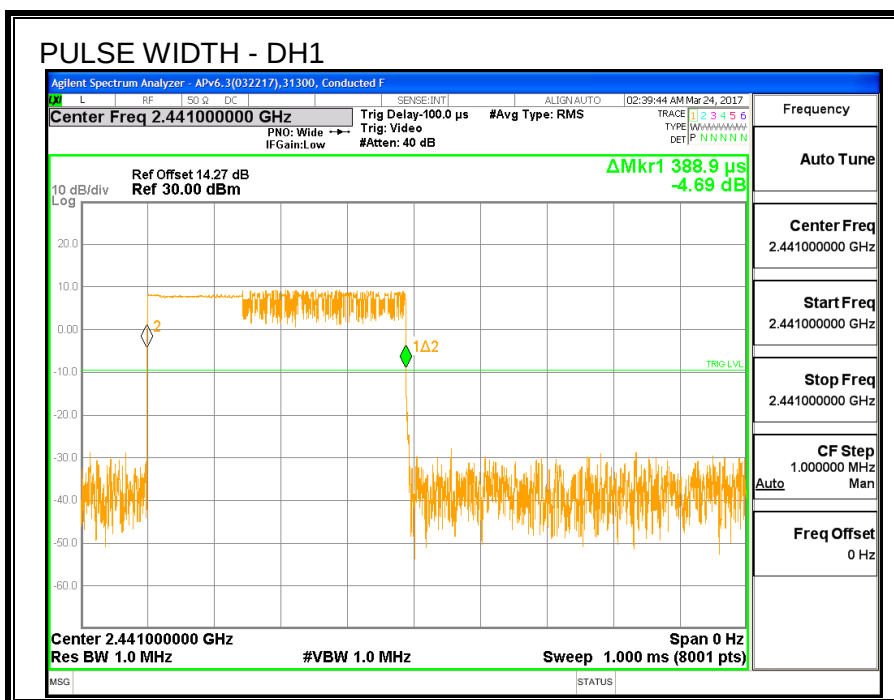
The transmitter output is connected to a spectrum analyzer. The span is set to 0 Hz, centered on a single, selected hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured in a 3.16 second scan, to enable resolution of each occurrence.

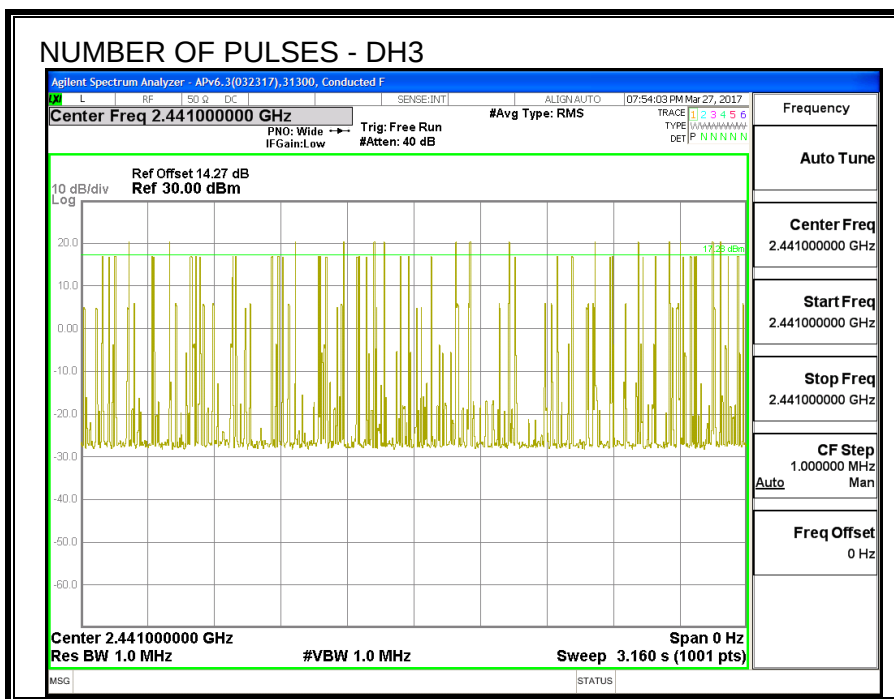
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{pulse width}$.

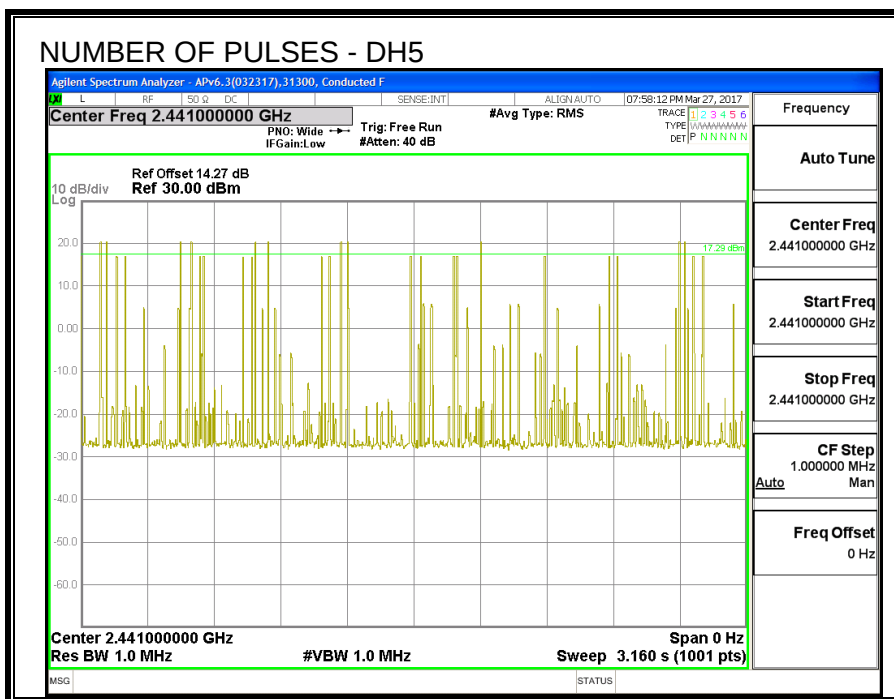
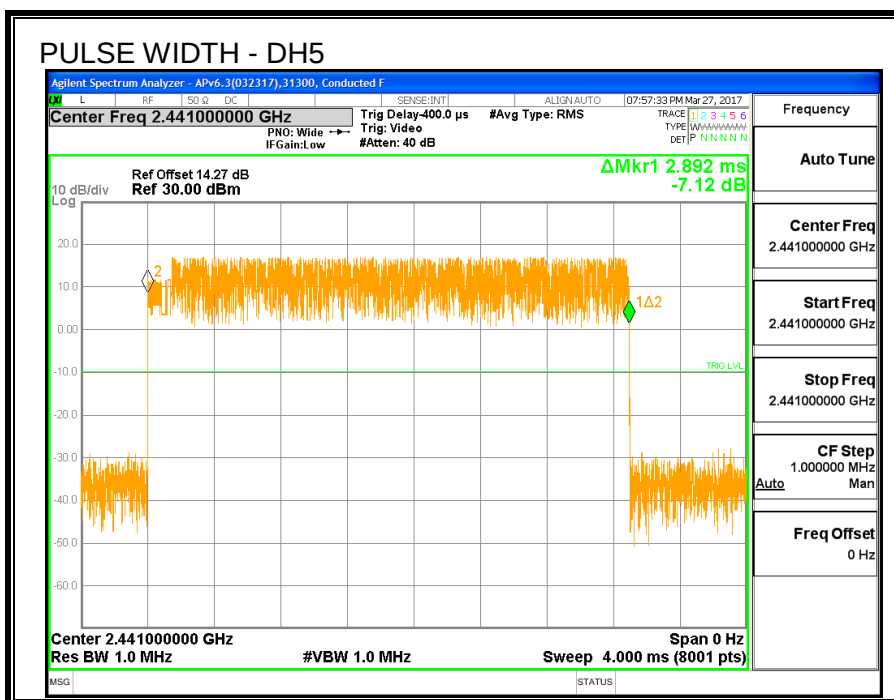
For AFH mode, the average time of occupancy in the specified 8 second period (20 channels * 0.4 seconds) is equal to $10 * (\# \text{ of pulses in } 0.8 \text{ s}) * \text{pulse width}$.

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	0.389	31	0.121	0.4	-0.279
3DH3	1.641	15	0.246	0.4	-0.154
3DH5	2.892	11	0.318	0.4	-0.082







7.12.5. 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	10.17	21	-10.85
Middle	2441	10.26	21	-10.75
High	2480	10.23	21	-10.80

7.12.6. AVERAGE POWER

ID:	30554	Date:	6/14/2017
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LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a 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	7.85
Middle	2441	7.92
High	2480	7.90

7.12.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-247 (5.5)

Limit = -20 dBc

TEST PROCEDURE

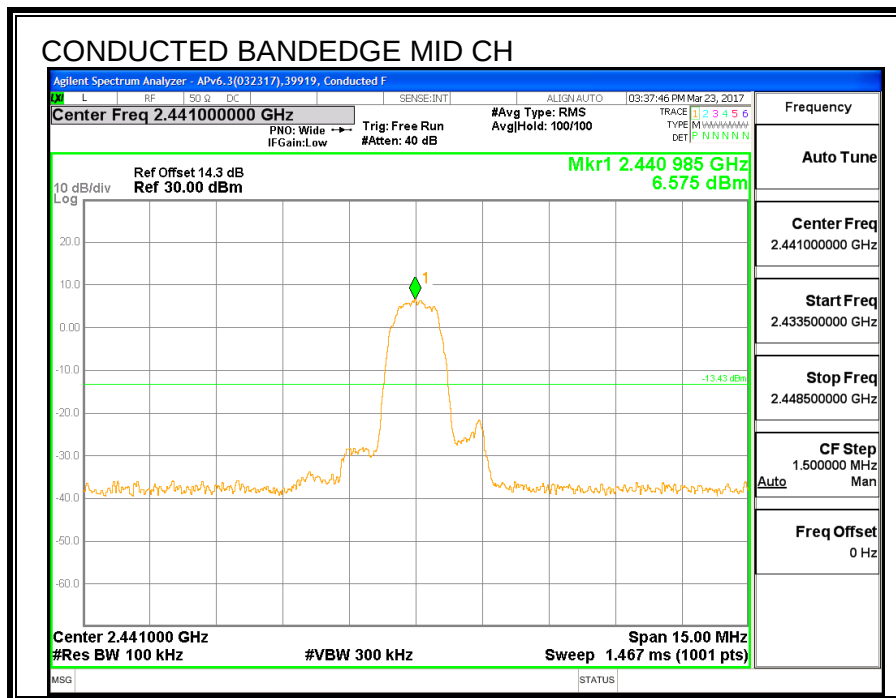
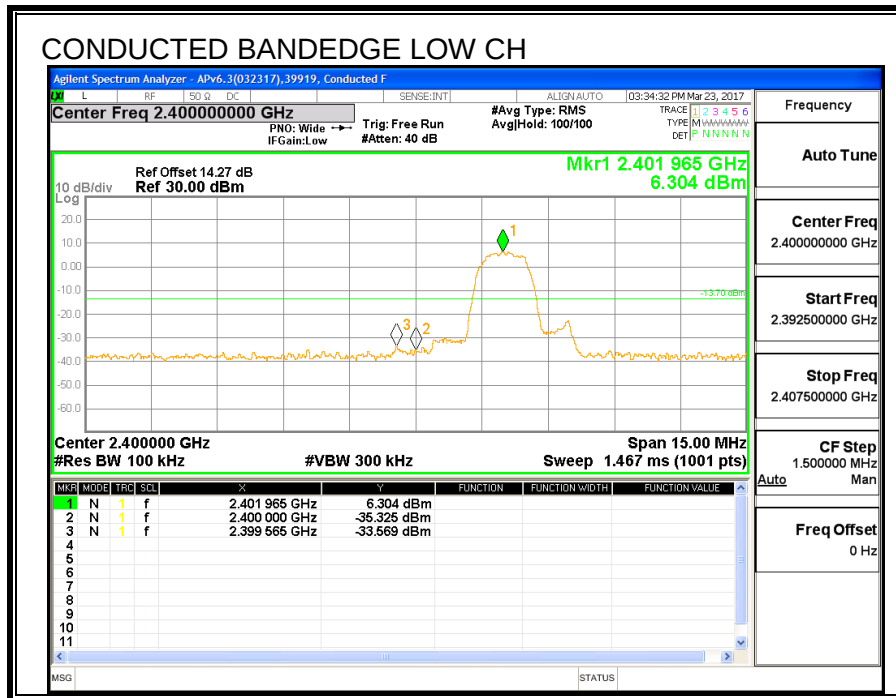
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

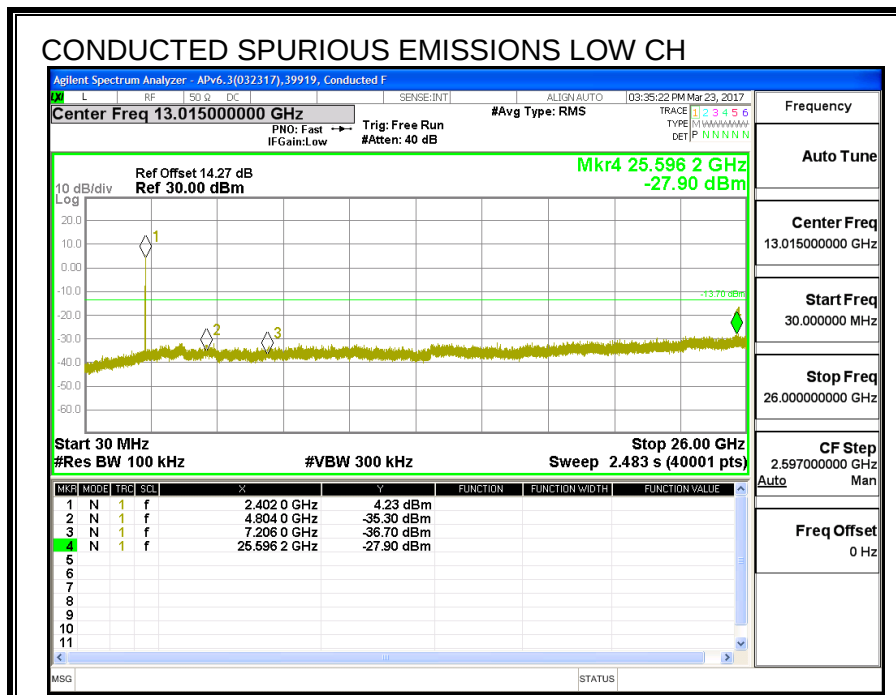
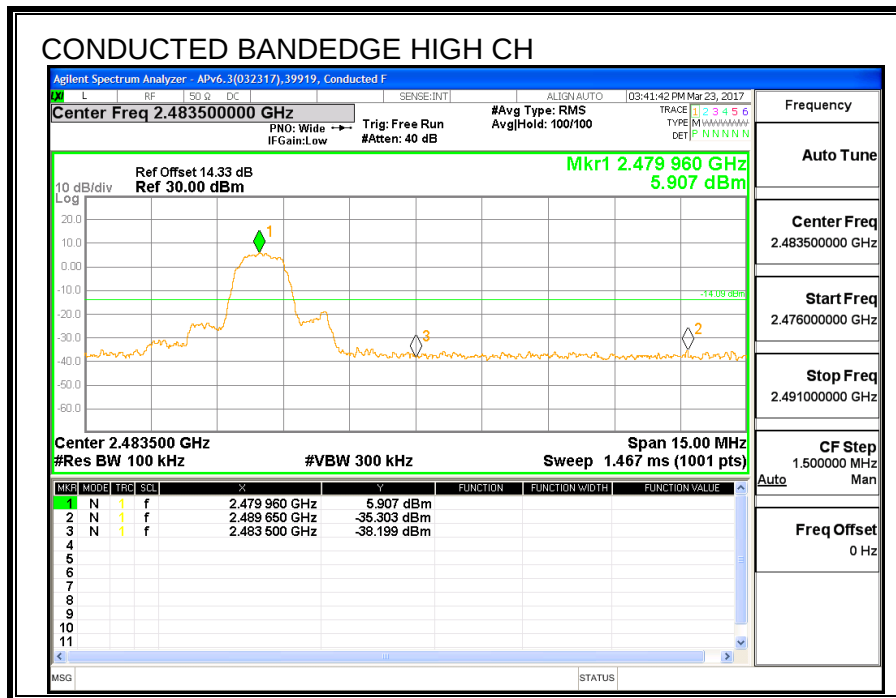
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

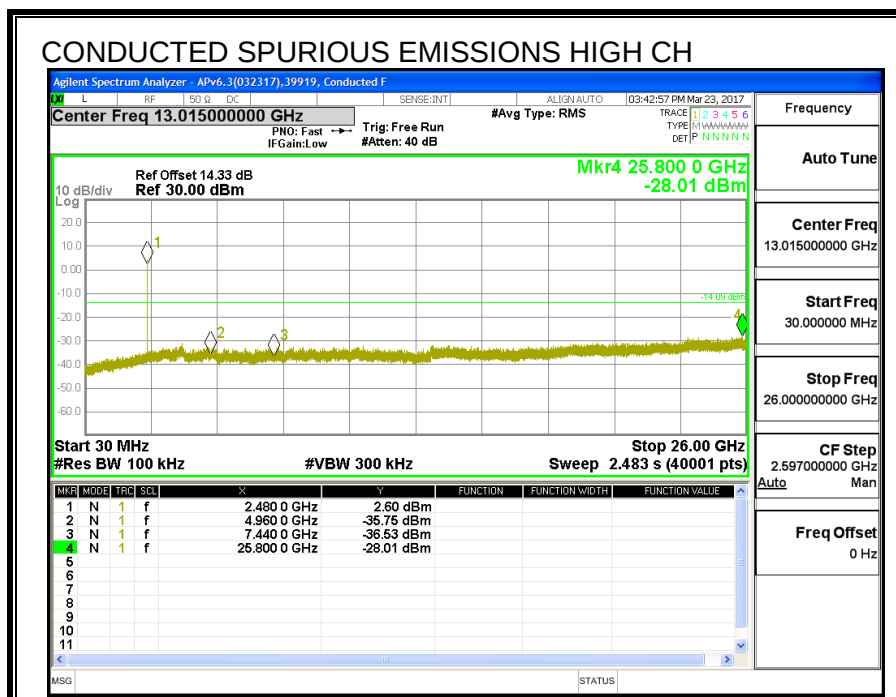
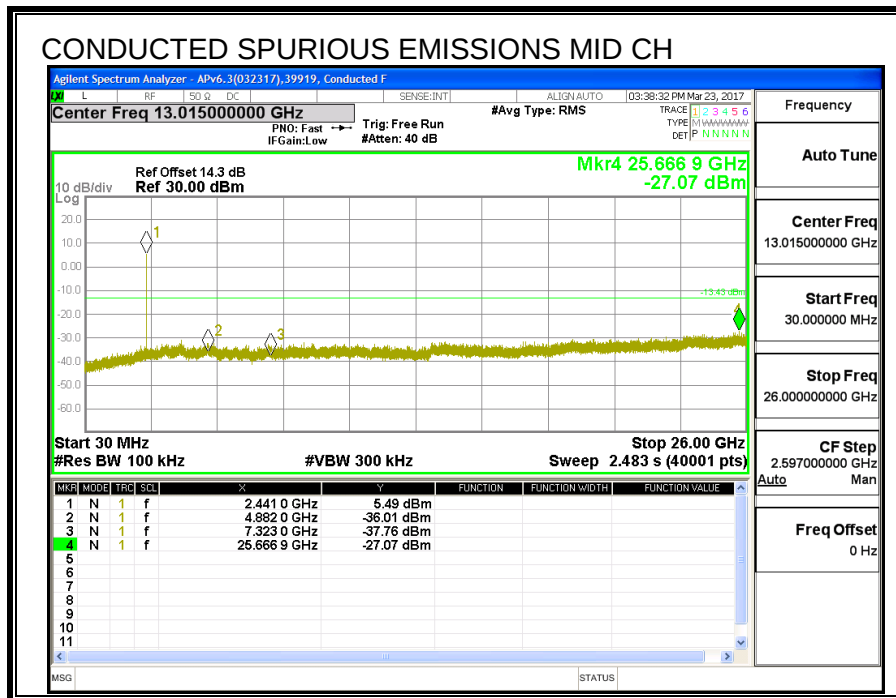
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

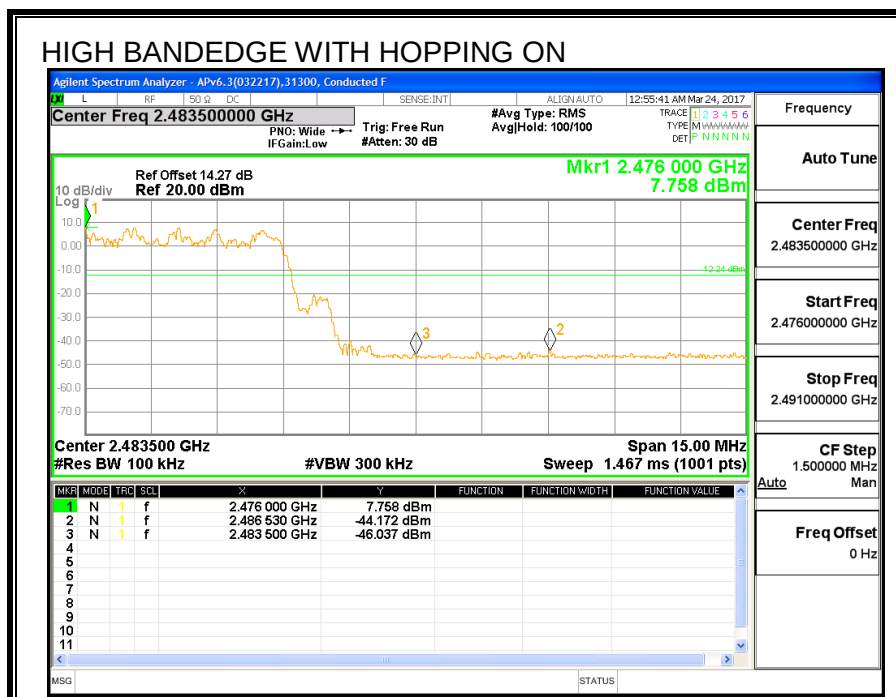
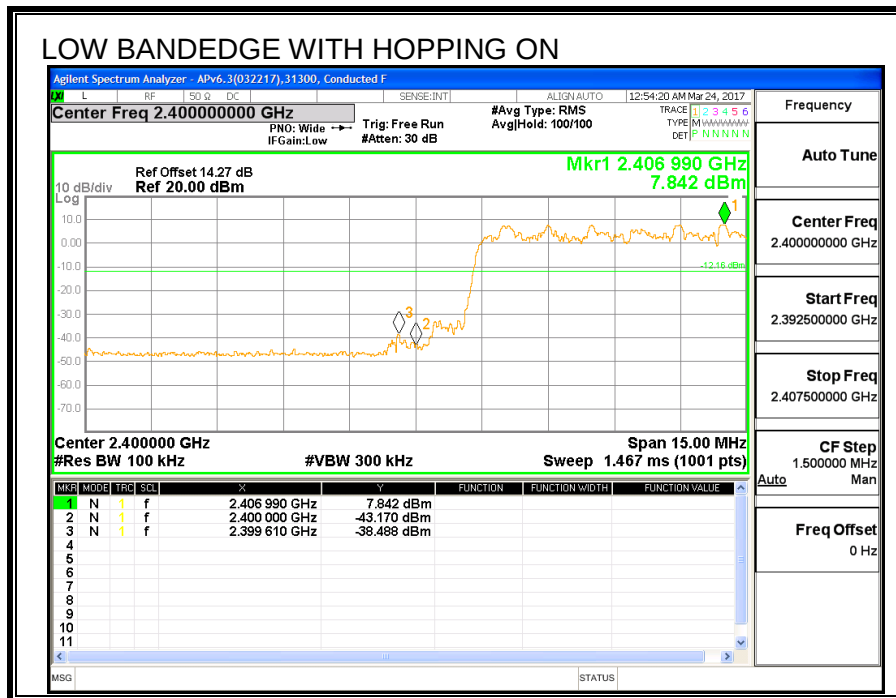
RESULTS

CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS









8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

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

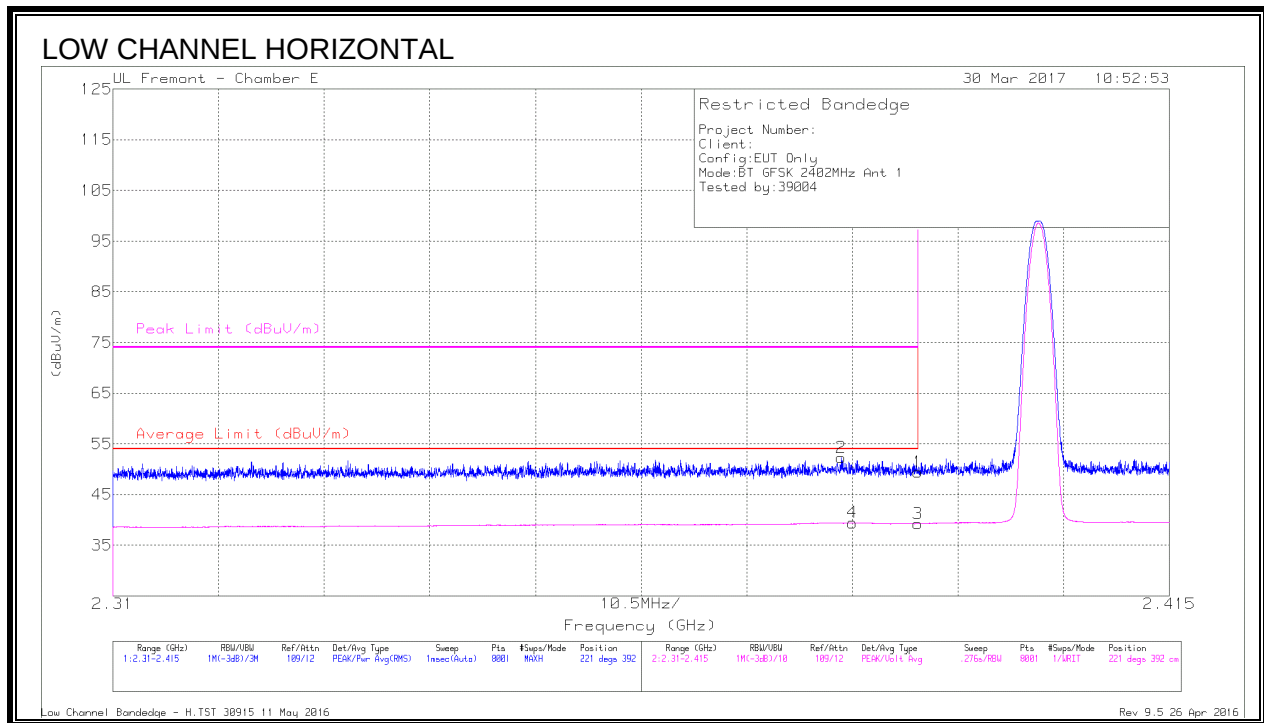
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak→ this is a note from Radiated automation software. When the frequency is below 1G, software is using RB=100kHz; when the frequency is above 1G, software is using RB=1MHz.

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

8.2. UAT 1, Primary PMAX BASIC DATA RATE GFSK MODULATION

8.2.1. RESTRICTED BANDEDGE (LOW CHANNEL)



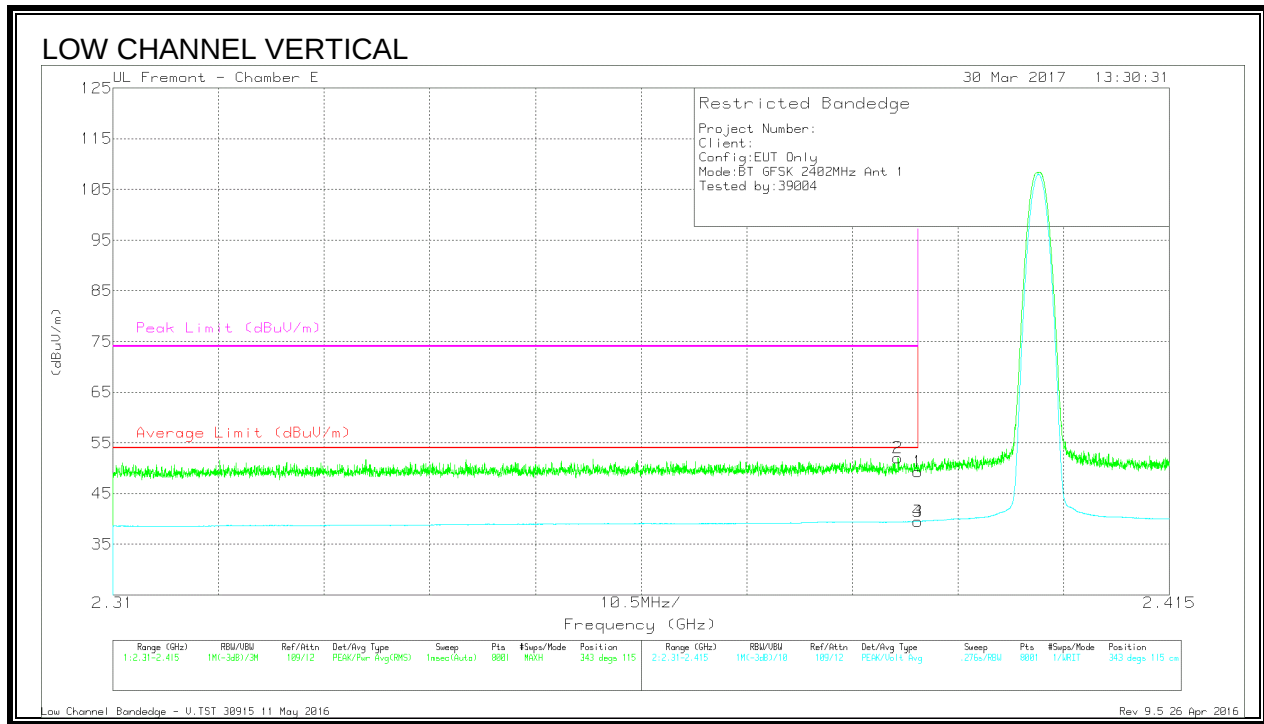
DATA

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	37.17	Pk	32	-19.7	49.47	-	-	74	-24.53	221	392	H
2	* 2.382	39.76	Pk	32	-19.5	52.26	-	-	74	-21.74	221	392	H
3	* 2.39	26.96	VA1T	32	-19.7	39.26	54	-14.74	-	-	221	392	H
4	* 2.383	26.93	VA1T	32	-19.5	39.43	54	-14.57	-	-	221	392	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



DATA

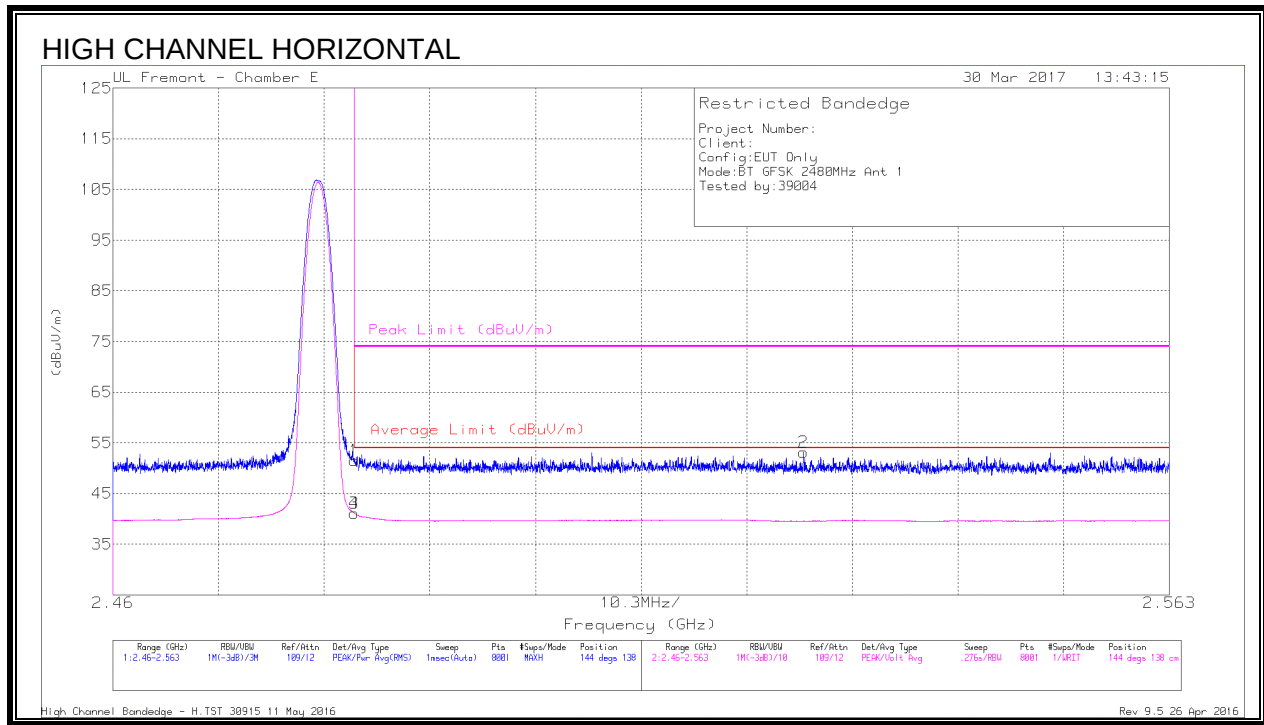
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.99	Pk	32	-19.7	49.29	-	-	74	-24.71	343	115	V
2	* 2.388	39.69	Pk	32	-19.7	51.99	-	-	74	-22.01	343	115	V
3	* 2.39	27.22	VA1T	32	-19.7	39.52	54	-14.48	-	-	343	115	V
4	* 2.39	27.22	VA1T	32	-19.7	39.52	54	-14.48	-	-	343	115	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

8.2.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



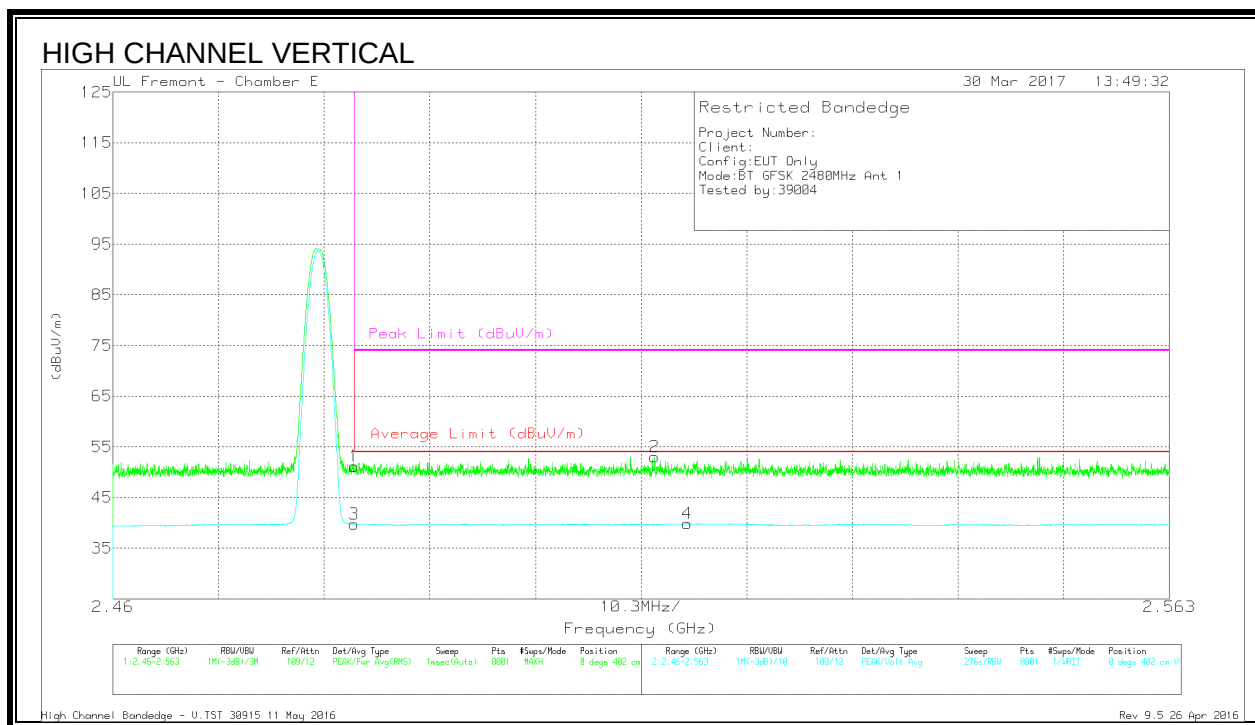
DATA

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)	Polarization
1	* 2.484	38.73	Pk	32.5	-19.7	51.53	-	-	74	-22.47	144	138	H
3	* 2.484	28.35	VA1T	32.5	-19.7	41.15	54	-12.85	-	-	144	138	H
4	* 2.484	28.32	VA1T	32.5	-19.7	41.12	54	-12.88	-	-	144	138	H
2	2.527	40.42	Pk	32.6	-19.9	53.12	-	-	74	-20.88	144	138	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



DATA

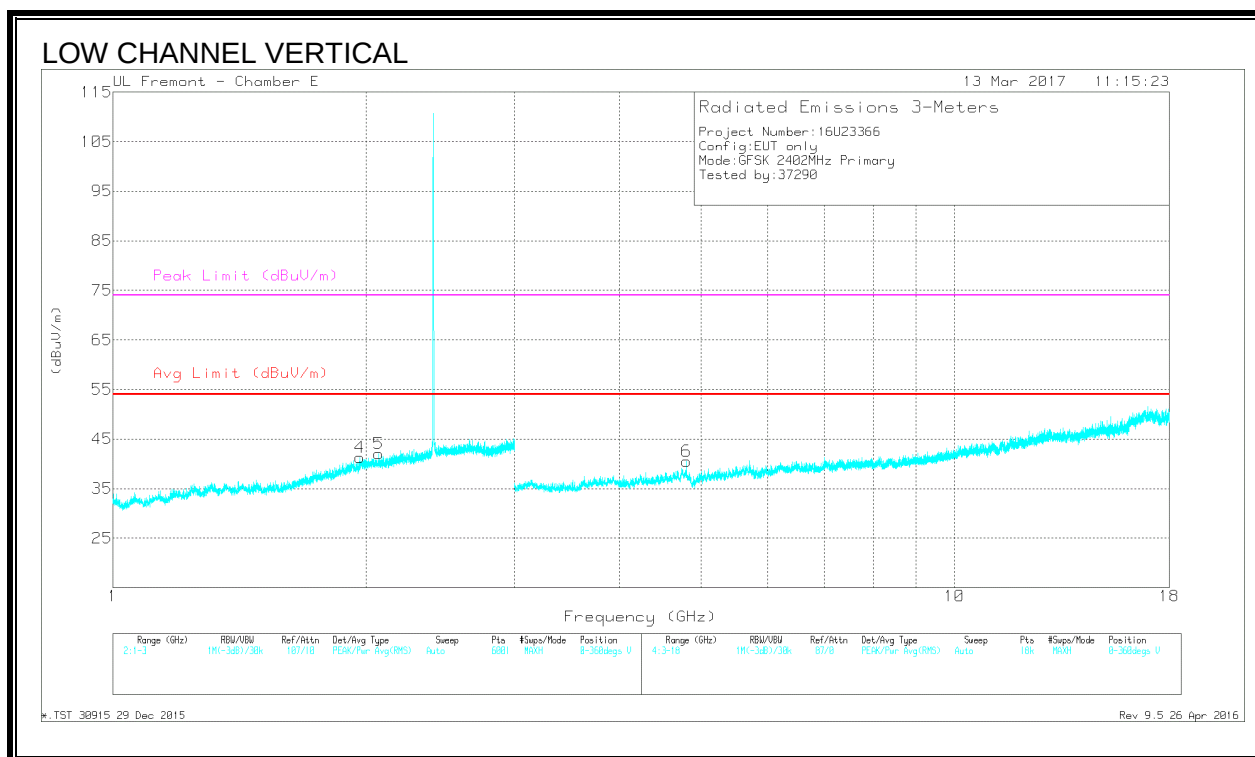
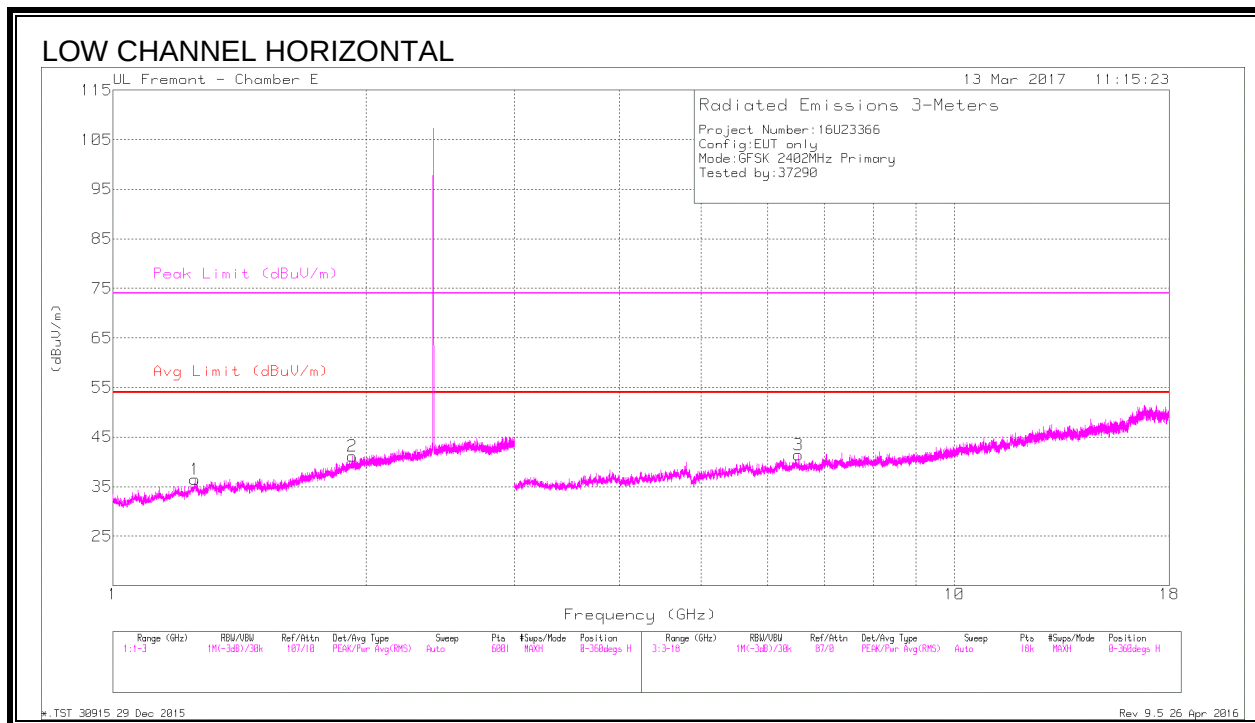
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	38.36	Pk	32.5	-19.7	51.16	-	-	74	-22.84	0	402	V
3	* 2.484	26.99	VA1T	32.5	-19.7	39.79	54	-14.21	-	-	0	402	V
2	2.513	40.24	Pk	32.6	-19.8	53.04	-	-	74	-20.96	0	402	V
4	2.516	26.94	VA1T	32.6	-19.7	39.84	54	-14.16	-	-	0	402	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

8.2.3. HARMONICS AND SPURIOUS EMISSIONS



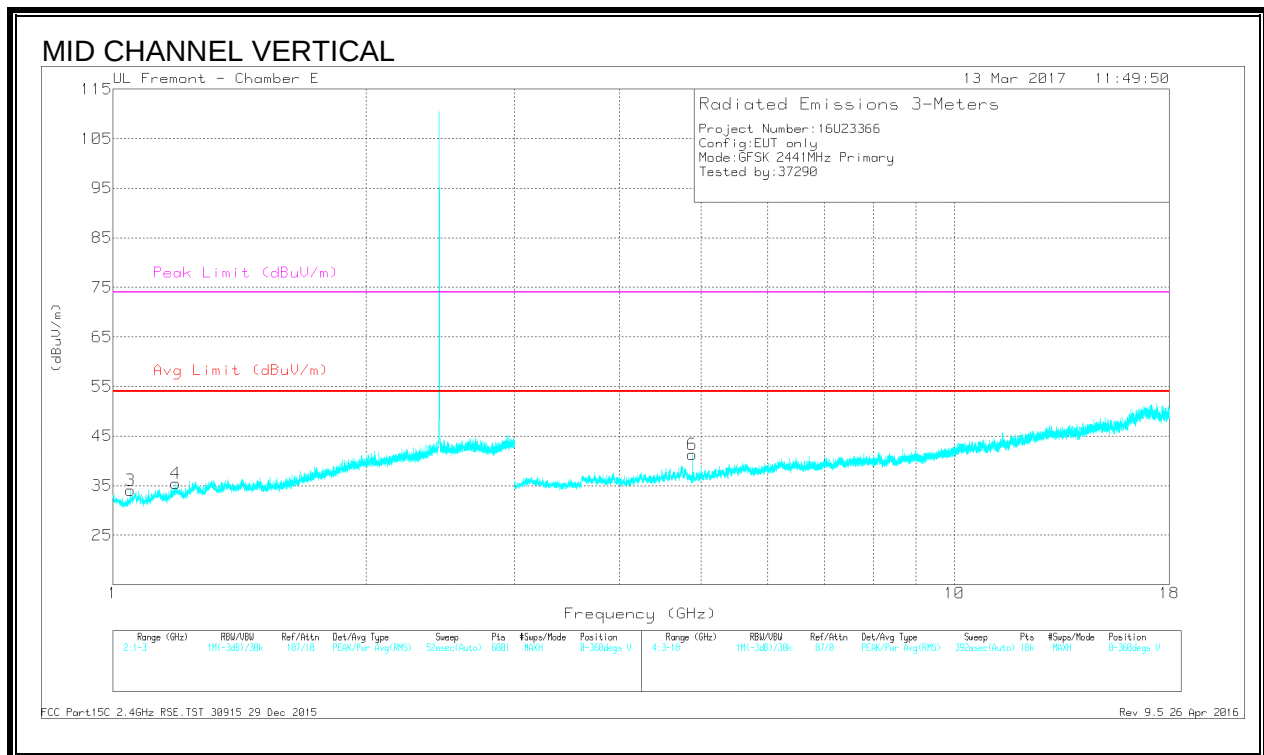
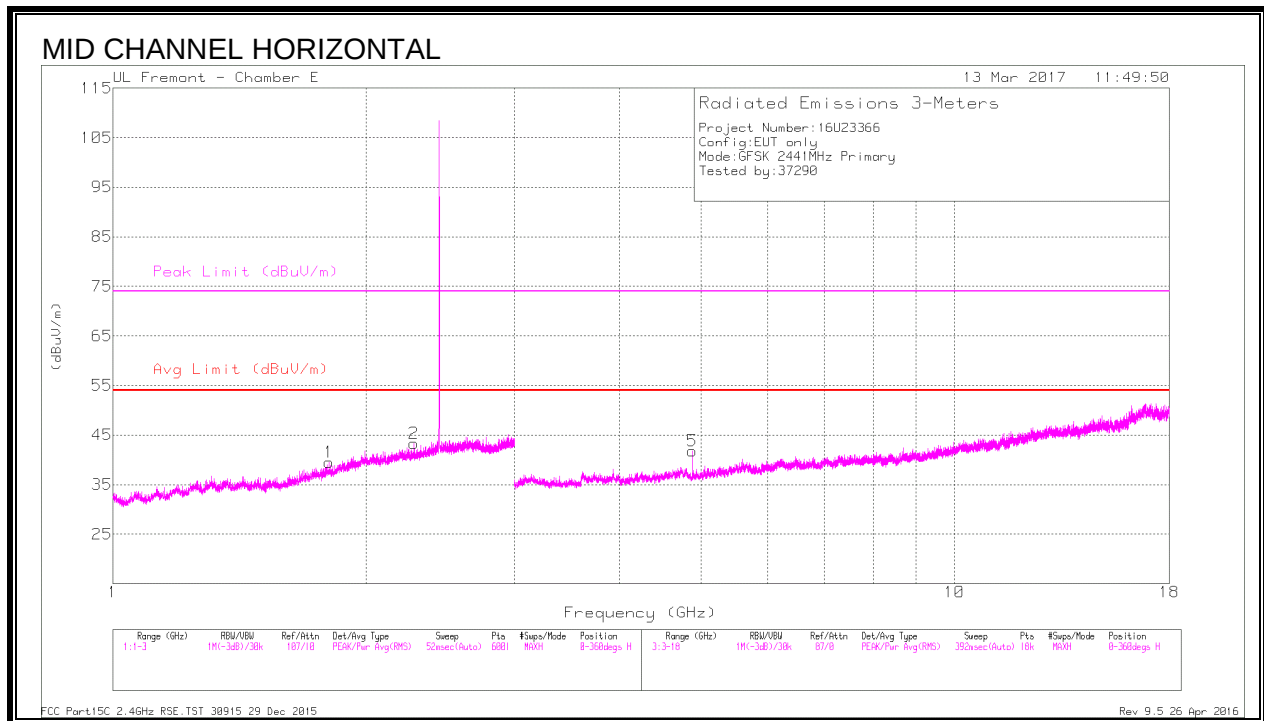
DATA
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.25	36.43	PKFH	28.5	-21.9	43.03	-	-	74	-30.97	360	101	H
* 1.25	19.84	VA1T	28.5	-21.9	26.44	54	-27.56	-	-	360	101	H
* 4.803	40.86	PKFH	34.2	-29.6	45.46	-	-	74	-28.54	360	200	V
* 4.804	28.46	VA1T	34.2	-29.6	33.06	54	-20.94	-	-	360	200	V
1.925	36.21	PKFH	31	-20	47.21	-	-	-	-	360	200	H
1.968	36.27	PKFH	31.3	-20	47.57	-	-	-	-	360	200	V
2.07	36.39	PKFH	31.4	-20.2	47.59	-	-	-	-	360	100	V
6.525	39.59	PKFH	35.7	-28.1	47.19	-	-	-	-	360	100	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



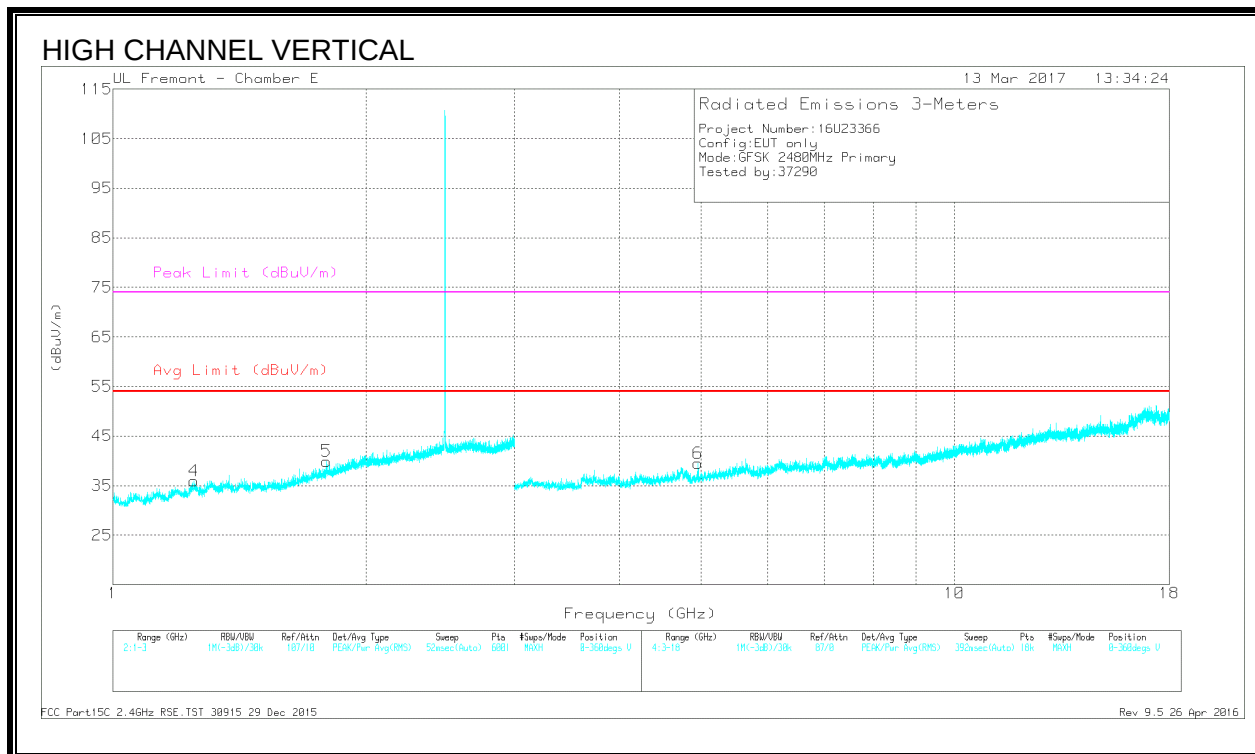
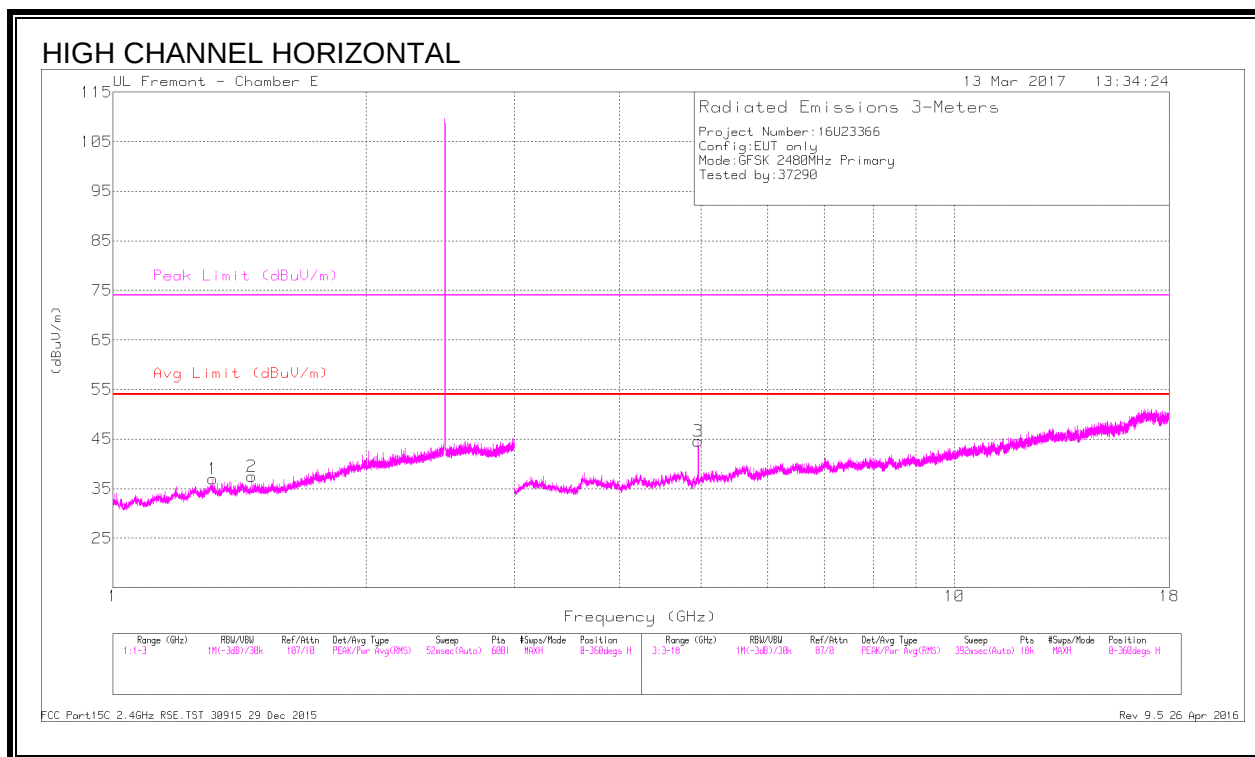
DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.28	36.85	PKFH	31.7	-19.7	48.85	-	-	74	-25.15	360	200	H
* 2.28	18.51	VA1T	31.7	-19.6	30.61	54	-23.39	-	-	360	200	H
* 1.049	35.52	PKFH	27.5	-23.1	39.92	-	-	74	-34.08	360	101	V
* 1.051	19.3	VA1T	27.5	-23.1	23.7	54	-30.3	-	-	360	101	V
* 1.188	35.54	PKFH	28.1	-22.4	41.24	-	-	74	-32.76	360	101	V
* 1.189	19.81	VA1T	28.1	-22.4	25.51	54	-28.49	-	-	360	101	V
* 4.882	43.25	PKFH	34.2	-30.4	47.05	-	-	74	-26.95	95	285	H
* 4.882	37.06	VA1T	34.2	-30.4	40.86	54	-13.14	-	-	95	285	H
* 4.882	42.79	PKFH	34.2	-30.4	46.59	-	-	74	-27.41	100	195	V
* 4.882	35.18	VA1T	34.2	-30.4	38.98	54	-15.02	-	-	100	195	V
1.805	37.08	PKFH	30.2	-20.6	46.68	-	-	-	-	360	200	H

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

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

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



DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.315	36.34	PKFH	28.8	-21.8	43.34	-	-	74	-30.66	0	101	H
* 1.312	19.32	VA1T	28.8	-21.8	26.32	54	-27.68	-	-	0	101	H
* 1.462	35.79	PKFH	28.3	-21.2	42.89	-	-	74	-31.11	0	101	H
* 1.464	18.09	VA1T	28.3	-21.3	25.09	54	-28.91	-	-	0	101	H
* 1.248	36.71	PKFH	28.5	-22	43.21	-	-	74	-30.79	0	200	V
* 1.249	19.6	VA1T	28.5	-22	26.1	54	-27.9	-	-	0	200	V
* 4.959	44.99	PKFH	34.2	-30.3	48.89	-	-	74	-25.11	93	262	H
* 4.959	38.62	VA1T	34.2	-30.3	42.52	54	-11.48	-	-	93	262	H
* 4.959	42.75	PKFH	34.2	-30.3	46.65	-	-	74	-27.35	147	240	V
* 4.959	34.26	VA1T	34.2	-30.3	38.16	54	-15.84	-	-	147	240	V
1.794	35.55	PKFH	30.2	-20.4	45.35	-	-	-	-	0	101	V

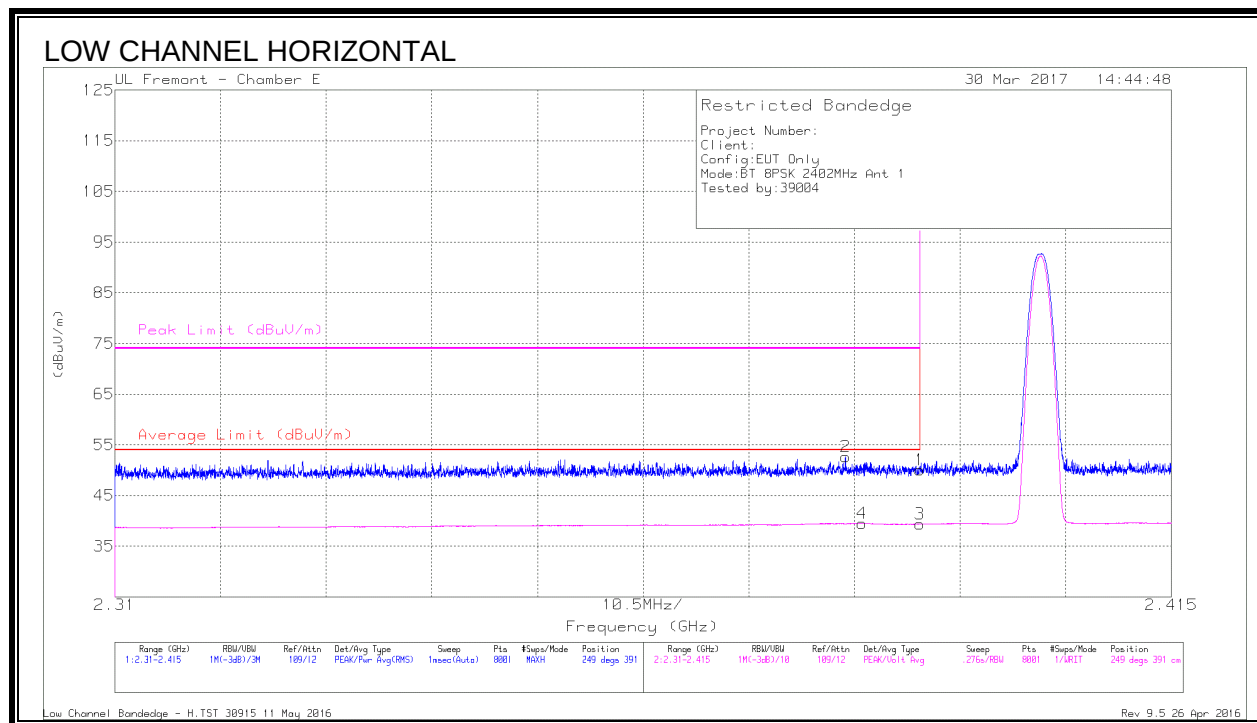
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

8.3. UAT 1, Primary PMAX ENHANCED DATA RATE 8PSK MODULATION

8.3.1. RESTRICTED BANDEDGE (LOW CHANNEL)



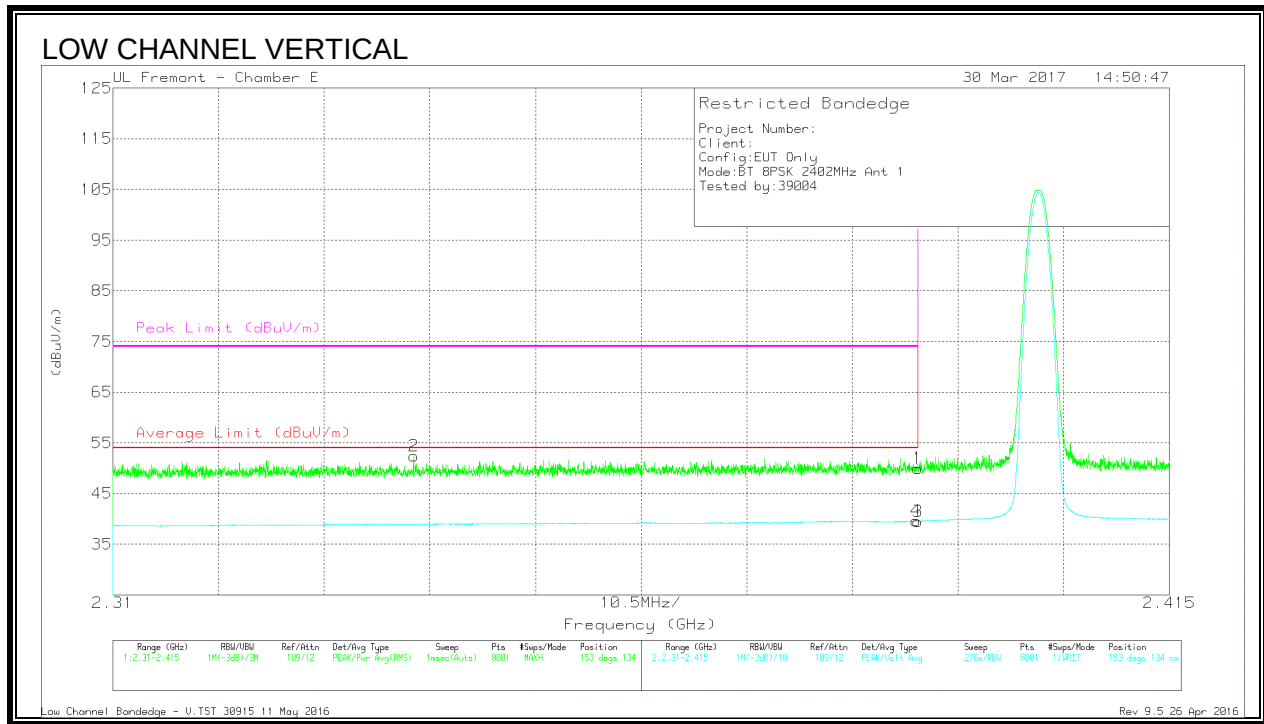
DATA

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	37.8	Pk	32	-19.7	50.1	-	-	74	-23.9	249	391	H
2	* 2.383	40.19	Pk	32	-19.5	52.69	-	-	74	-21.31	249	391	H
3	* 2.39	27.04	VA1T	32	-19.7	39.34	54	-14.66	-	-	249	391	H
4	* 2.384	27.02	VA1T	32	-19.5	39.52	54	-14.48	-	-	249	391	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



DATA

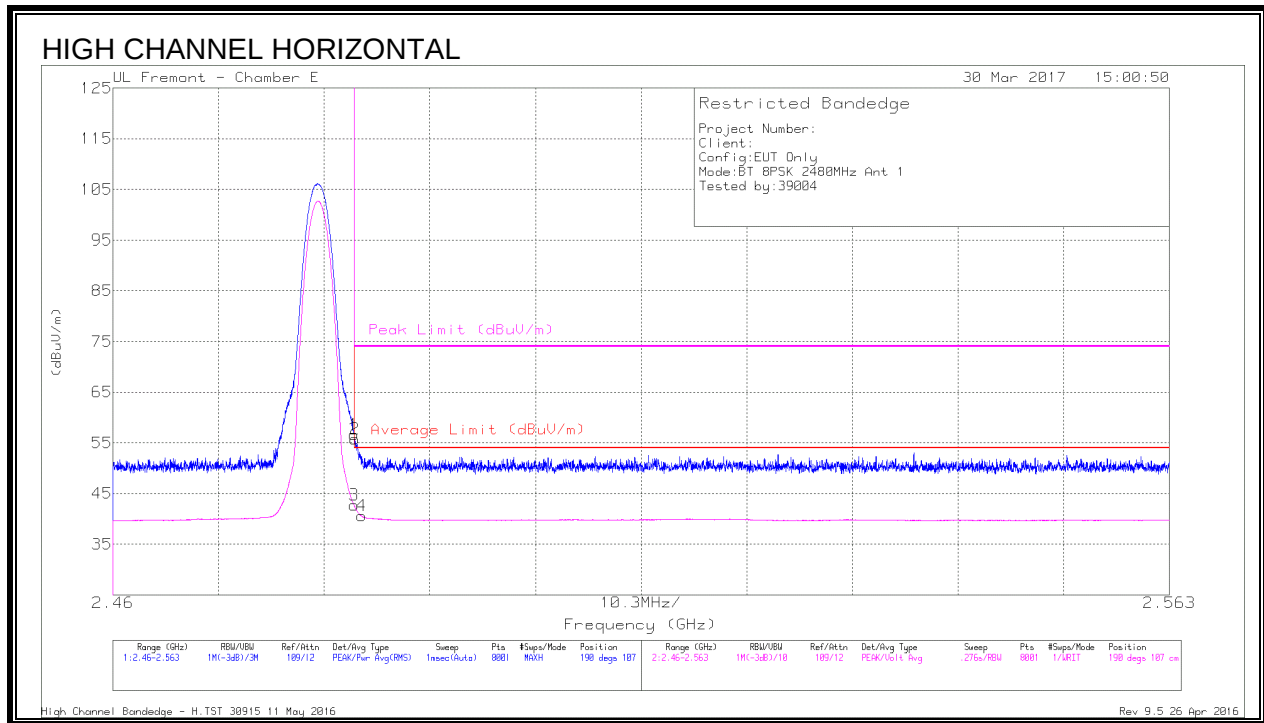
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.68	Pk	32	-19.7	49.98	-	-	74	-24.02	153	134	V
2	* 2.34	40.4	Pk	31.8	-19.8	52.4	-	-	74	-21.6	153	134	V
3	* 2.39	27.21	VA1T	32	-19.7	39.51	54	-14.49	-	-	153	134	V
4	* 2.39	27.27	VA1T	32	-19.7	39.57	54	-14.43	-	-	153	134	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

8.3.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



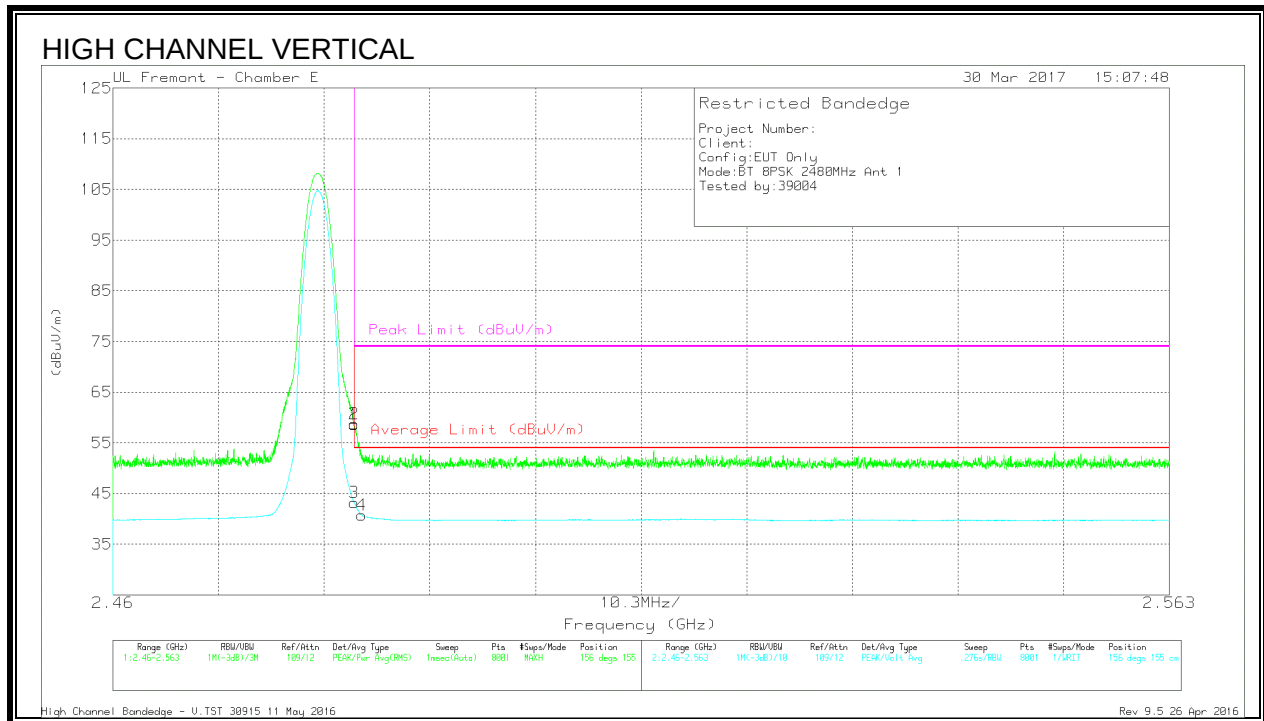
DATA

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)	Polarization
1	* 2.484	43.84	Pk	32.5	-19.7	56.64	-	-	74	-17.36	190	107	H
2	* 2.484	42.97	Pk	32.5	-19.7	55.77	-	-	74	-18.23	190	107	H
3	* 2.484	29.87	VA1T	32.5	-19.7	42.67	54	-11.33	-	-	190	107	H
4	* 2.484	27.77	VA1T	32.5	-19.7	40.57	54	-13.43	-	-	190	107	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



DATA

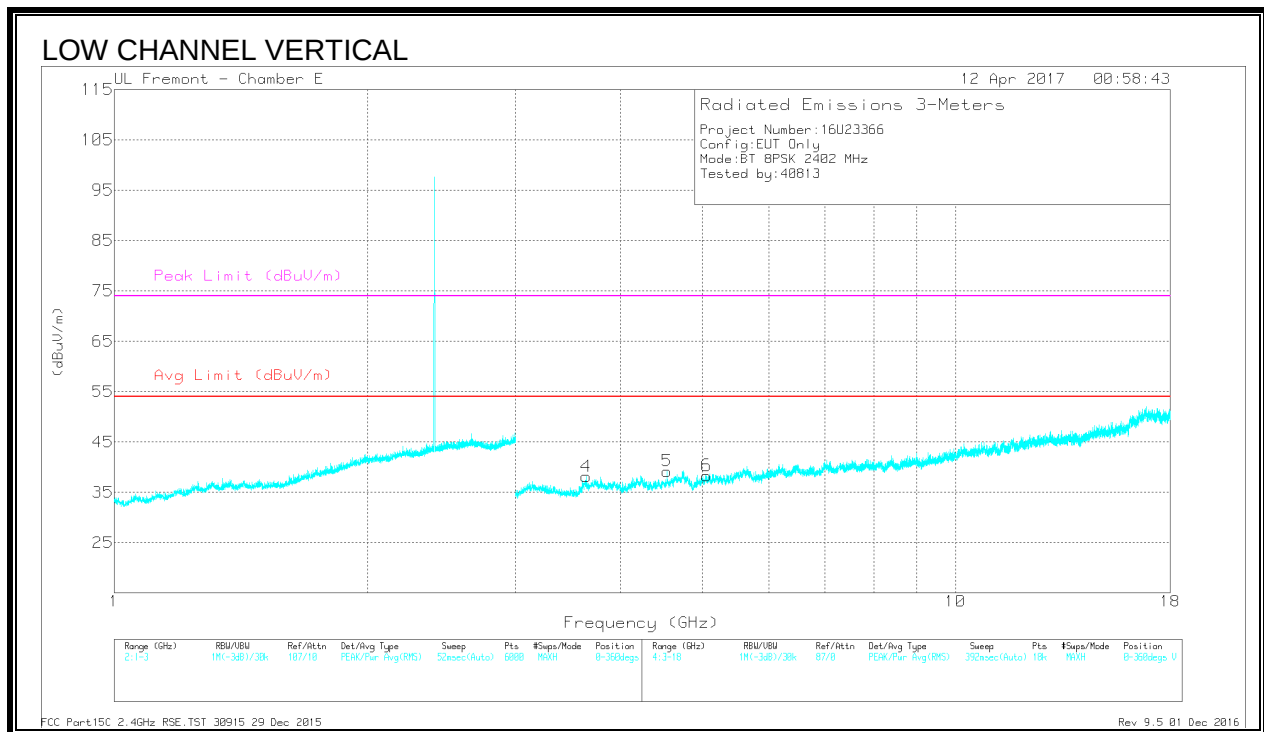
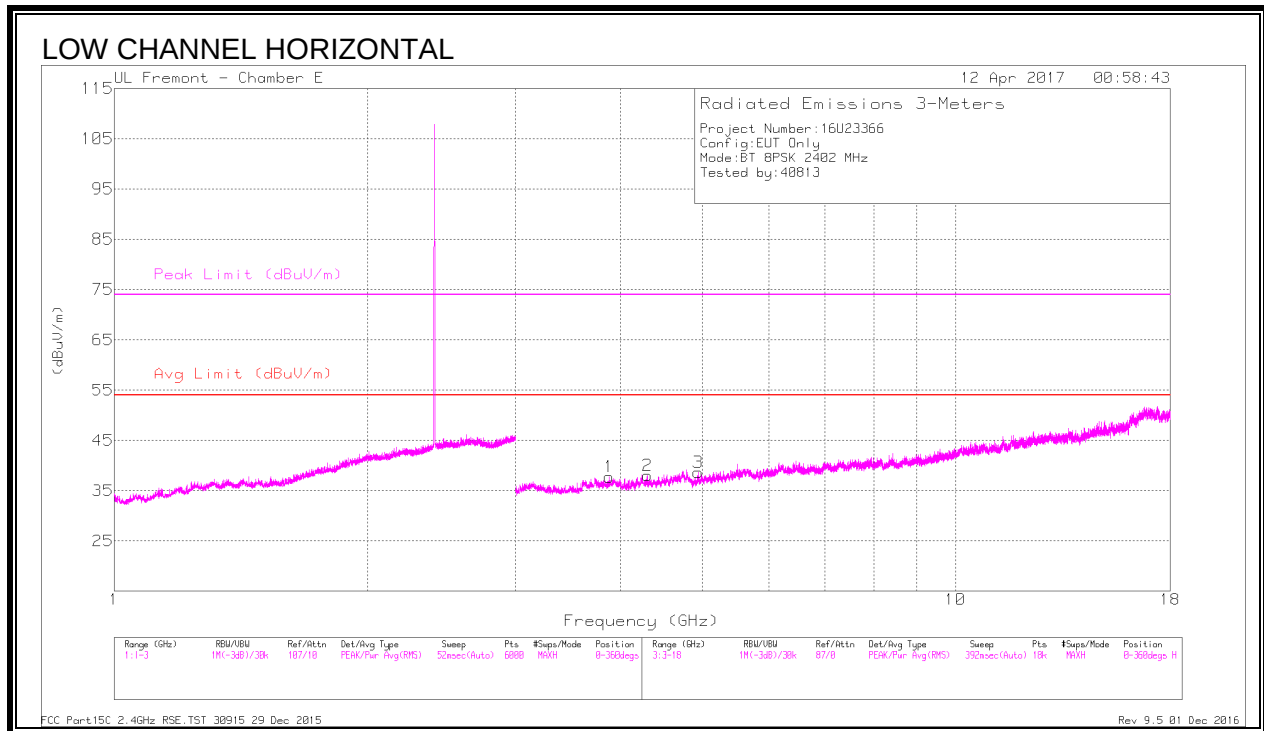
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	45.8	Pk	32.5	-19.7	58.6	-	-	74	-15.4	156	155	V
2	* 2.484	45.91	Pk	32.5	-19.7	58.71	-	-	74	-15.29	156	155	V
3	* 2.484	30.44	VA1T	32.5	-19.7	43.24	54	-10.76	-	-	156	155	V
4	* 2.484	27.95	VA1T	32.5	-19.7	40.75	54	-13.25	-	-	156	155	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

8.3.3. HARMONICS AND SPURIOUS EMISSIONS



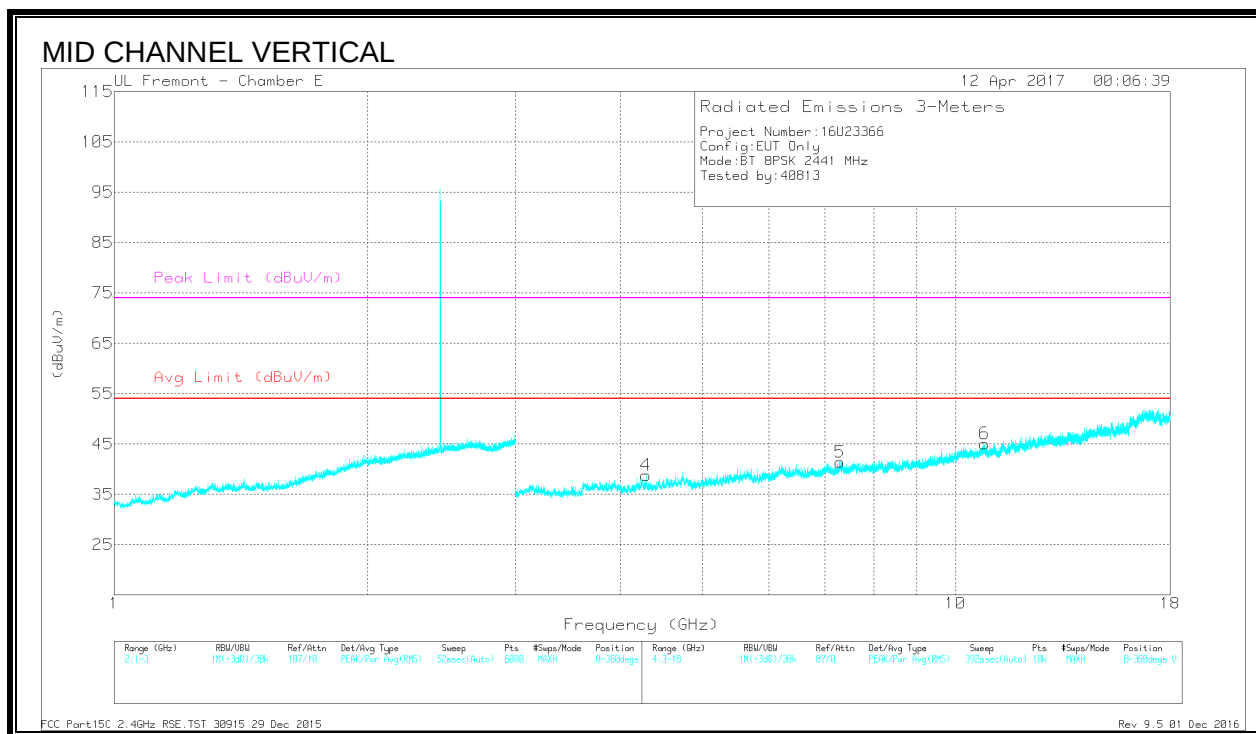
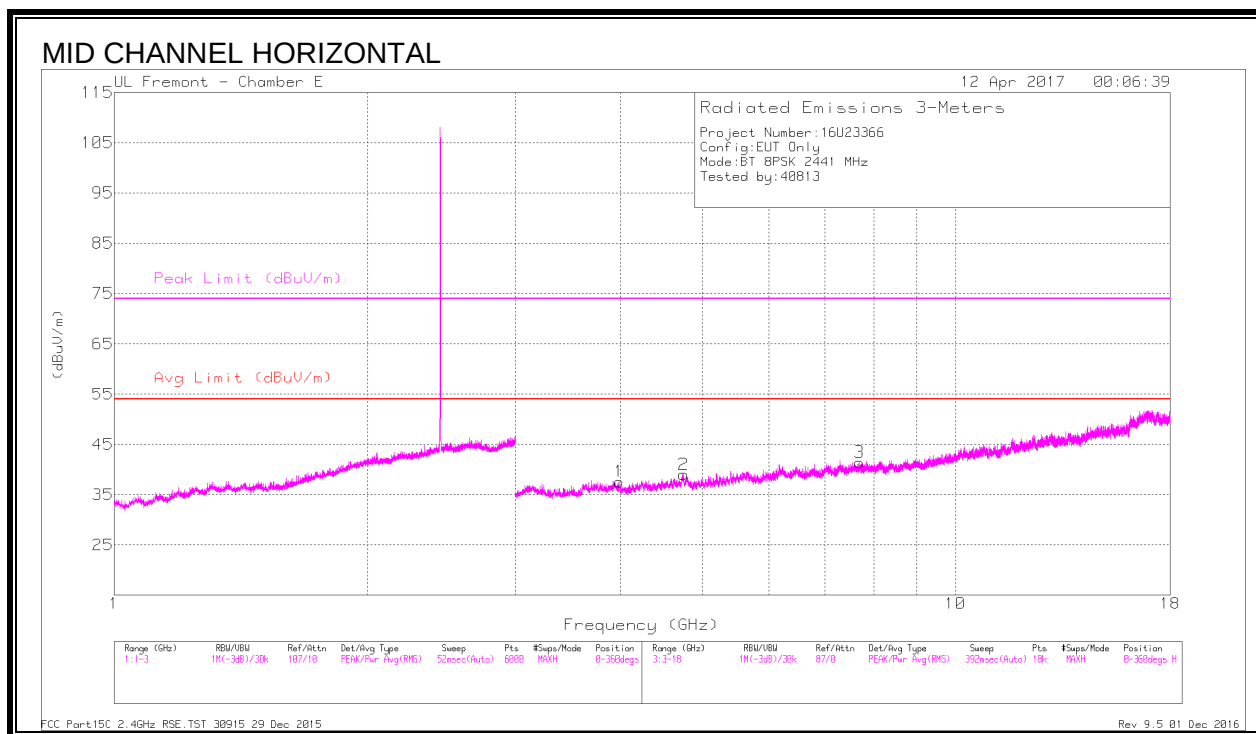
DATA

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	* 3.875	40.85	PKFH	33.4	-30.7	43.55	-	-	74	-30.45	26	121	H
	* 3.876	29.5	VA1T	33.4	-30.6	32.3	54	-21.7	-	-	26	121	H
2	* 4.305	40.59	PKFH	33.5	-30	44.09	-	-	74	-29.91	63	201	H
	* 4.307	28.42	VA1T	33.5	-29.9	32.02	54	-21.98	-	-	63	201	H
3	* 4.946	39.77	PKFH	34.2	-30.3	43.67	-	-	74	-30.33	104	165	H
	* 4.943	28.03	VA1T	34.2	-30.4	31.83	54	-22.17	-	-	104	165	H
4	* 3.642	40.77	PKFH	33.1	-30.2	43.67	-	-	74	-30.33	137	222	V
	* 3.642	28.5	VA1T	33.1	-30.2	31.4	54	-22.6	-	-	137	222	V
5	* 4.54	40.36	PKFH	34	-29.6	44.76	-	-	74	-29.24	108	175	V
	* 4.539	28.34	VA1T	34	-29.6	32.74	54	-21.26	-	-	108	175	V
6	* 5.063	39.68	PKFH	34.3	-29.8	44.18	-	-	74	-29.82	108	202	V
	* 5.061	27.99	VA1T	34.3	-29.8	32.49	54	-21.51	-	-	108	202	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



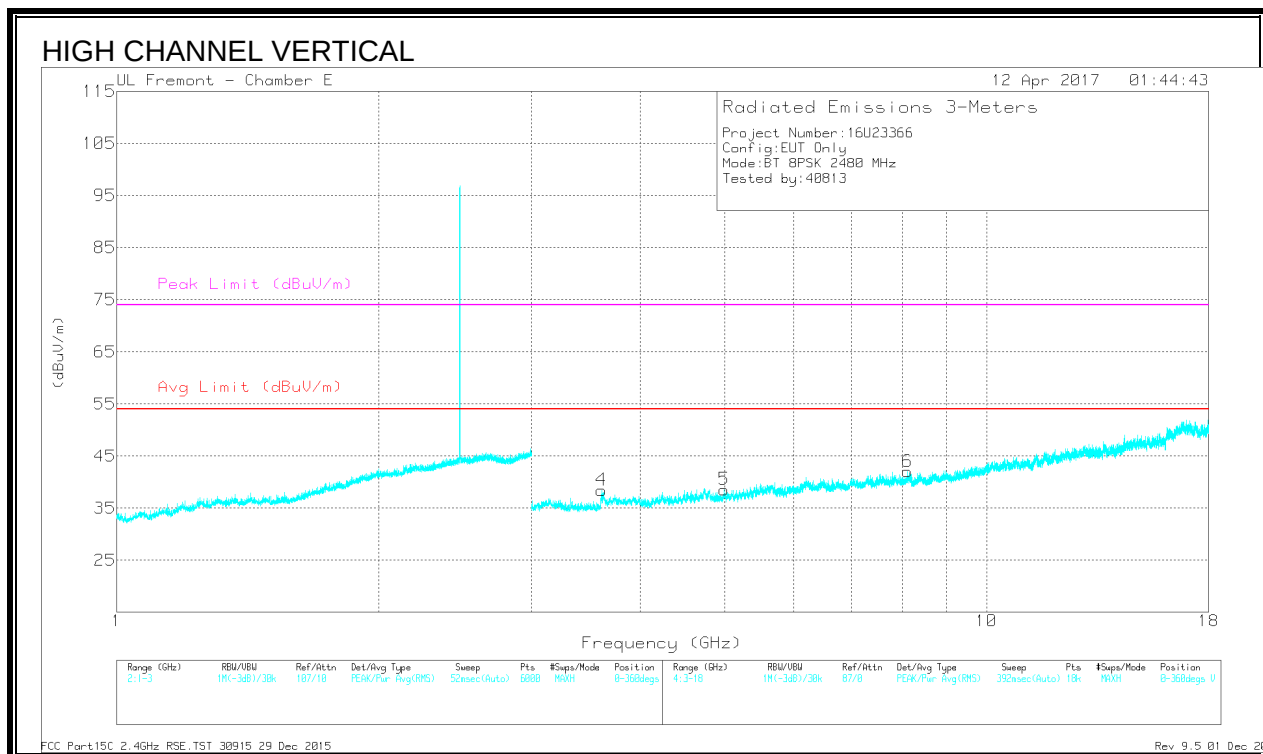
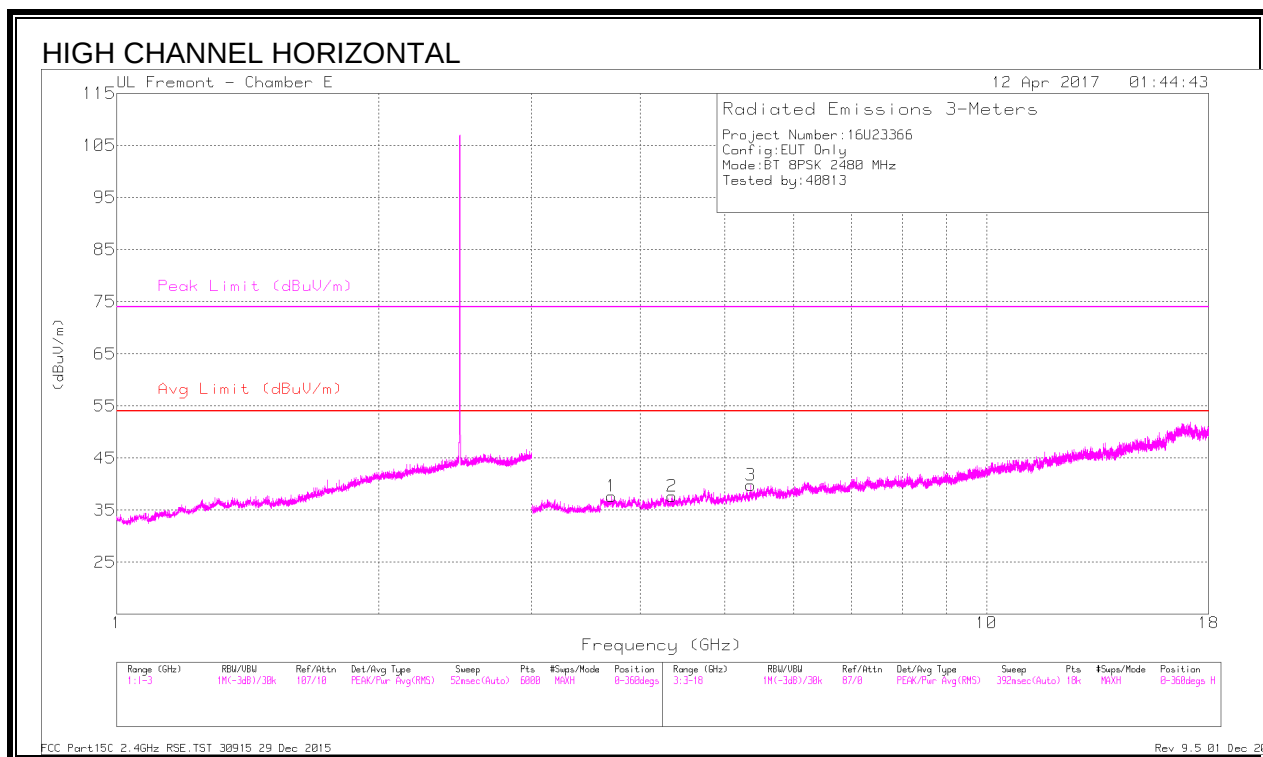
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Fitr/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	* 3.988	40.05	PKFH	33.3	-29.5	43.85	-	-	74	-30.15	216	113	H
	* 3.986	28.08	VA1T	33.3	-29.3	32.08	54	-21.92	-	-	216	113	H
2	* 4.751	39.43	PKFH	34.3	-28.9	44.83	-	-	74	-29.17	253	123	H
	* 4.751	28	VA1T	34.3	-28.9	33.4	54	-20.6	-	-	253	123	H
3	* 7.695	38.62	PKFH	36.1	-27.2	47.52	-	-	74	-26.48	201	209	H
	* 7.696	26	VA1T	36.1	-27.2	34.9	54	-19.1	-	-	201	209	H
4	* 4.288	40.13	PKFH	33.5	-29.5	44.13	-	-	74	-29.87	160	176	V
	* 4.289	28.36	VA1T	33.5	-29.5	32.36	54	-21.64	-	-	160	176	V
5	* 7.29	37.52	PKFH	35.9	-26.3	47.12	-	-	74	-26.88	146	218	V
	* 7.29	25.78	VA1T	35.9	-26.3	35.38	54	-18.62	-	-	146	218	V
6	* 10.826	35.16	PKFH	37.6	-22.5	50.26	-	-	74	-23.74	95	233	V
	* 10.824	23.46	VA1T	37.6	-22.5	38.56	54	-15.44	-	-	95	233	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



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr/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	* 3.703	40.79	PKFH	33.4	-30.2	43.99	-	-	74	-30.01	70	230	H
	* 3.706	28.38	VA1T	33.4	-30.2	31.58	54	-22.42	-	-	70	230	H
2	* 4.348	40.58	PKFH	33.6	-30.8	43.38	-	-	74	-30.62	129	135	H
	* 4.348	28.91	VA1T	33.6	-30.8	31.71	54	-22.29	-	-	129	135	H
3	* 5.356	39.35	PKFH	34.9	-29.4	44.85	-	-	74	-29.15	178	224	H
	* 5.357	27.52	VA1T	34.9	-29.4	33.02	54	-20.98	-	-	178	224	H
4	* 3.609	39.98	PKFH	32.9	-30.4	42.48	-	-	74	-31.52	140	214	V
	* 3.609	28.38	VA1T	32.9	-30.4	30.88	54	-23.12	-	-	140	214	V
5	* 4.99	41.73	PKFH	34.3	-30.1	45.93	-	-	74	-28.07	168	251	V
	* 4.991	28.25	VA1T	34.3	-30.1	32.45	54	-21.55	-	-	168	251	V
6	* 8.11	38.57	PKFH	36	-25.6	48.97	-	-	74	-25.03	134	238	V
	* 8.11	25.06	VA1T	36	-25.6	35.46	54	-18.54	-	-	134	238	V

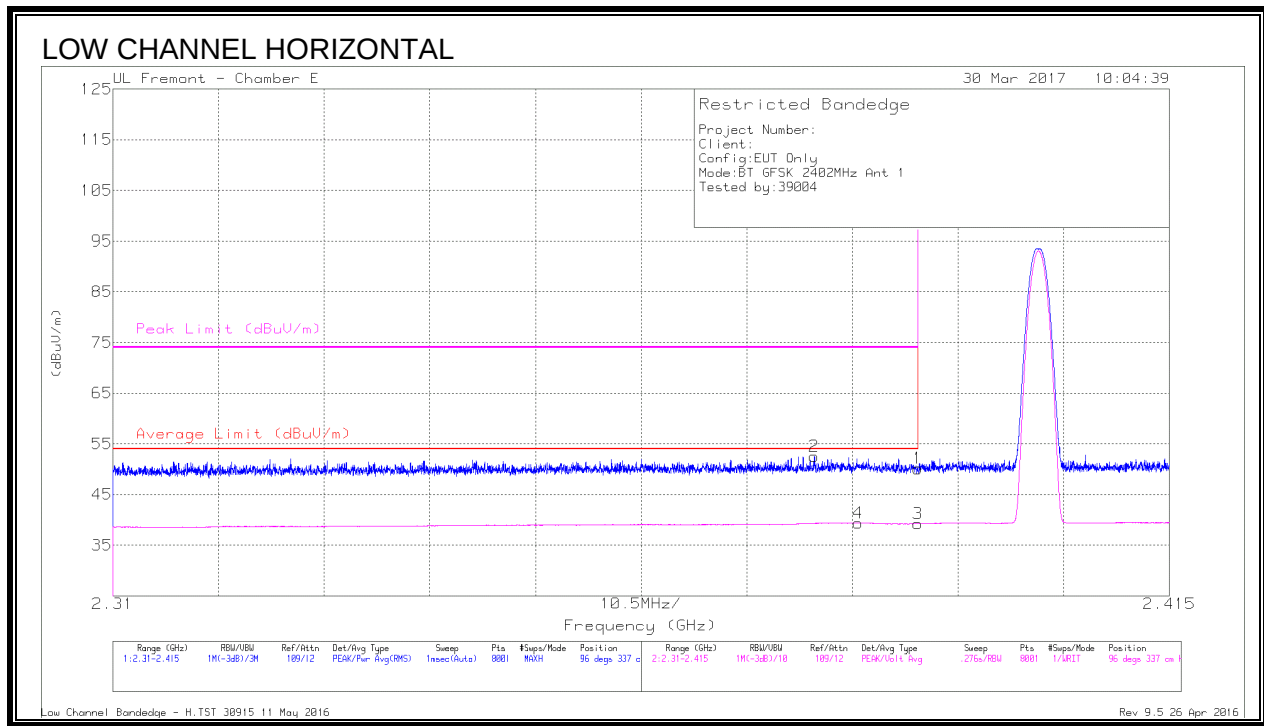
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

8.4. UAT 1, Primary PLOW BASIC DATA RATE GFSK MODULATION

8.4.1. RESTRICTED BANDEDGE (LOW CHANNEL)



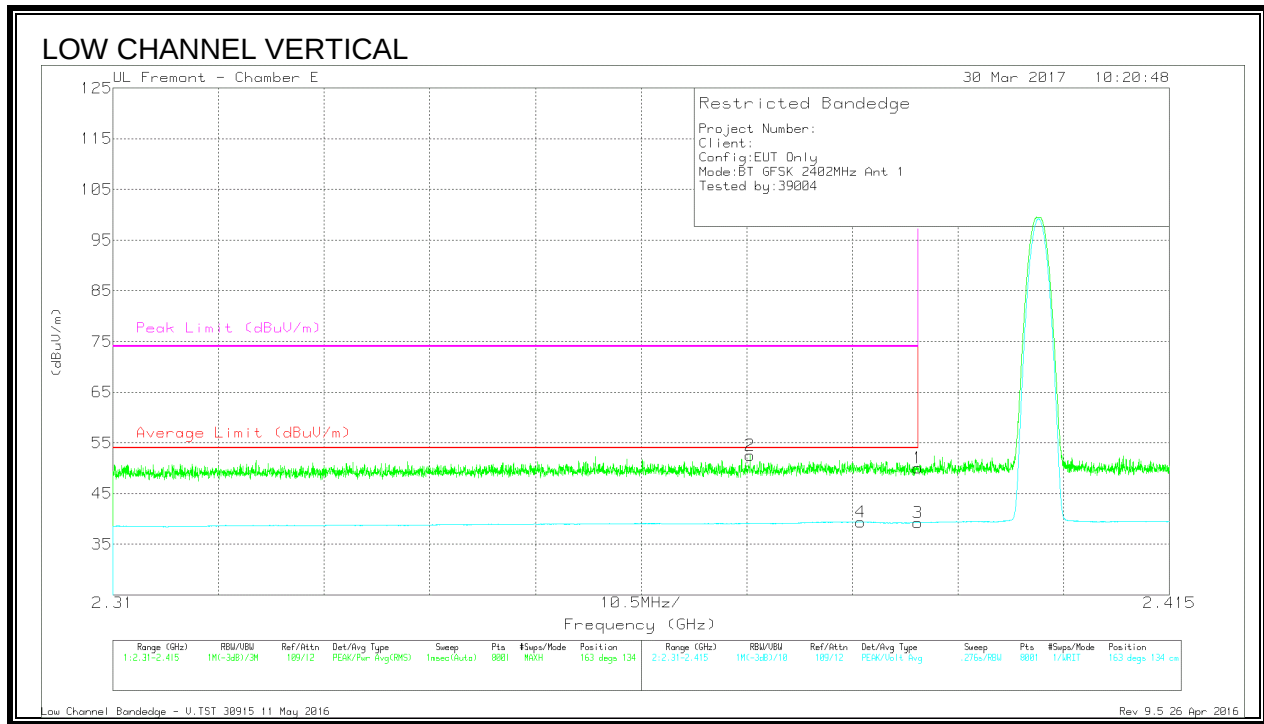
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.81	Pk	32	-19.7	50.11	-	-	74	-23.89	96	337	H
2	* 2.38	40.15	Pk	32	-19.6	52.55	-	-	74	-21.45	96	337	H
3	* 2.39	26.91	VA1T	32	-19.7	39.21	54	-14.79	-	-	96	337	H
4	* 2.384	26.9	VA1T	32	-19.5	39.4	54	-14.6	-	-	96	337	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



DATA

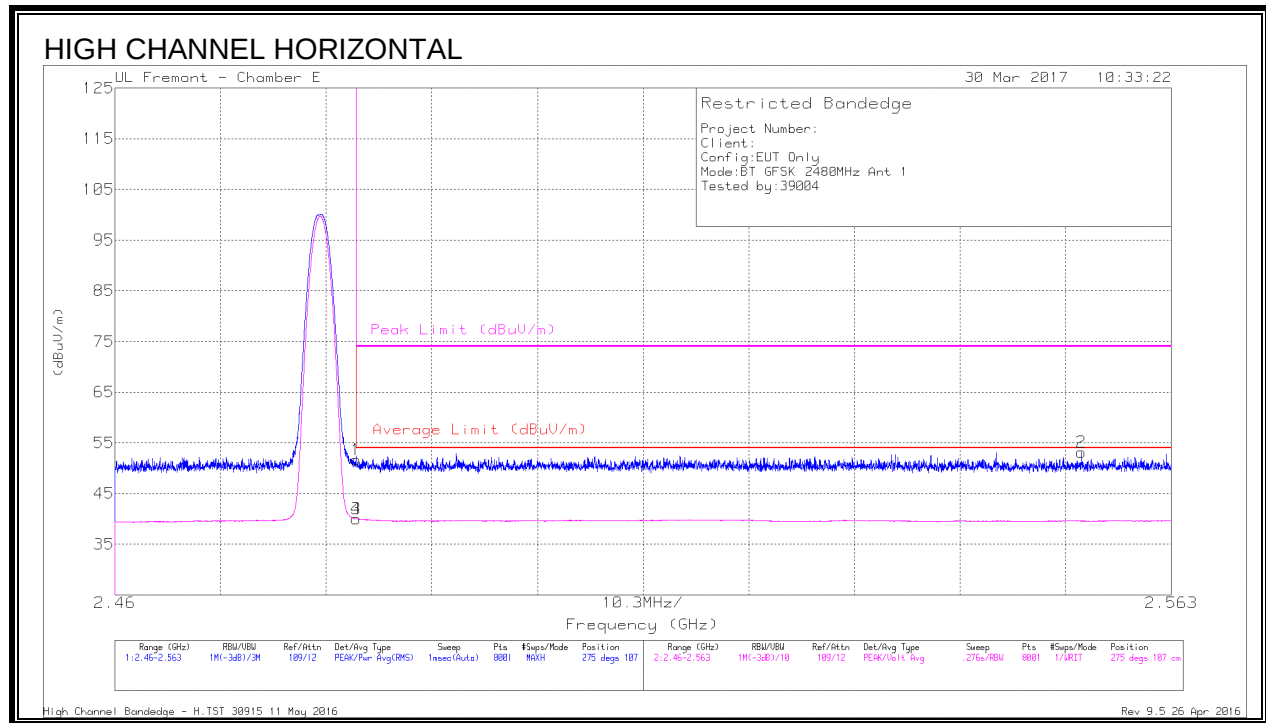
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.7	Pk	32	-19.7	50	-	-	74	-24	163	134	V
2	* 2.373	40.21	Pk	32	-19.7	52.51	-	-	74	-21.49	163	134	V
3	* 2.39	26.95	VA1T	32	-19.7	39.25	54	-14.75	-	-	163	134	V
4	* 2.384	26.88	VA1T	32	-19.5	39.38	54	-14.62	-	-	163	134	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

8.4.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



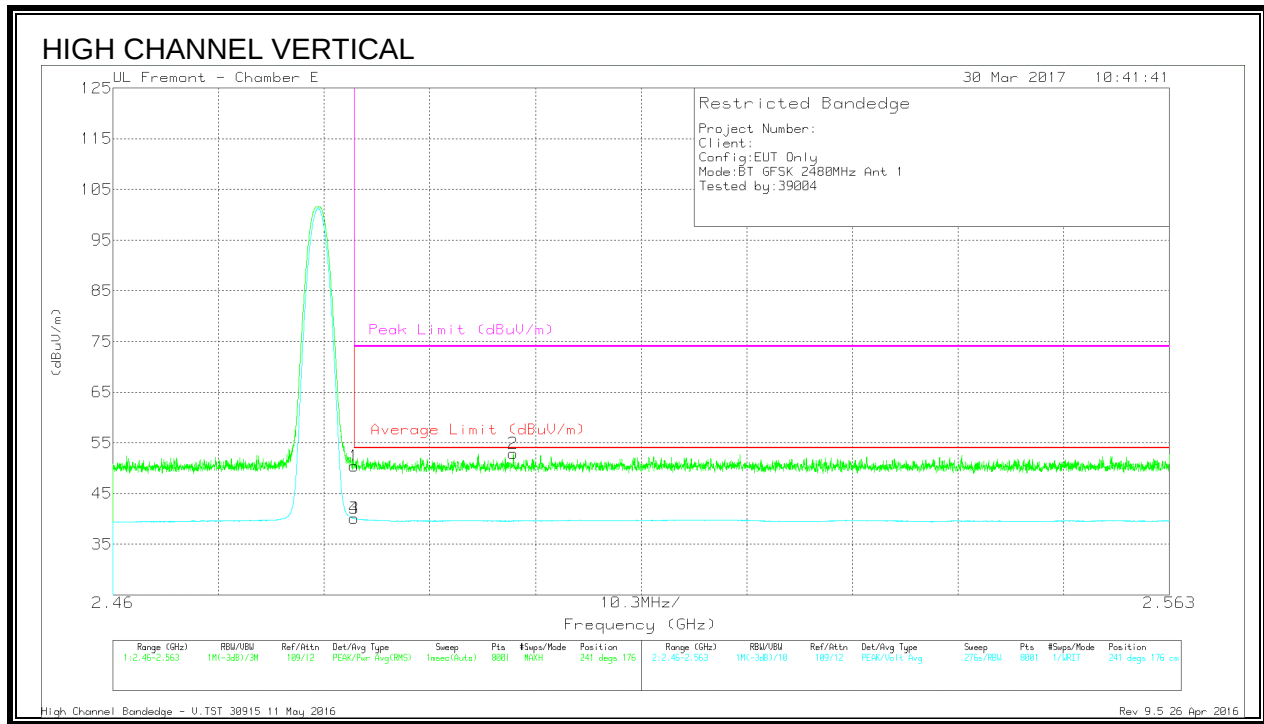
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	38.82	Pk	32.5	-19.7	51.62	-	-	74	-22.38	275	107	H
3	* 2.484	27.18	VA1T	32.5	-19.7	39.98	54	-14.02	-	-	275	107	H
4	* 2.484	27.19	VA1T	32.5	-19.7	39.99	54	-14.01	-	-	275	107	H
2	2.554	40.46	Pk	32.5	-19.8	53.16	-	-	74	-20.84	275	107	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



DATA

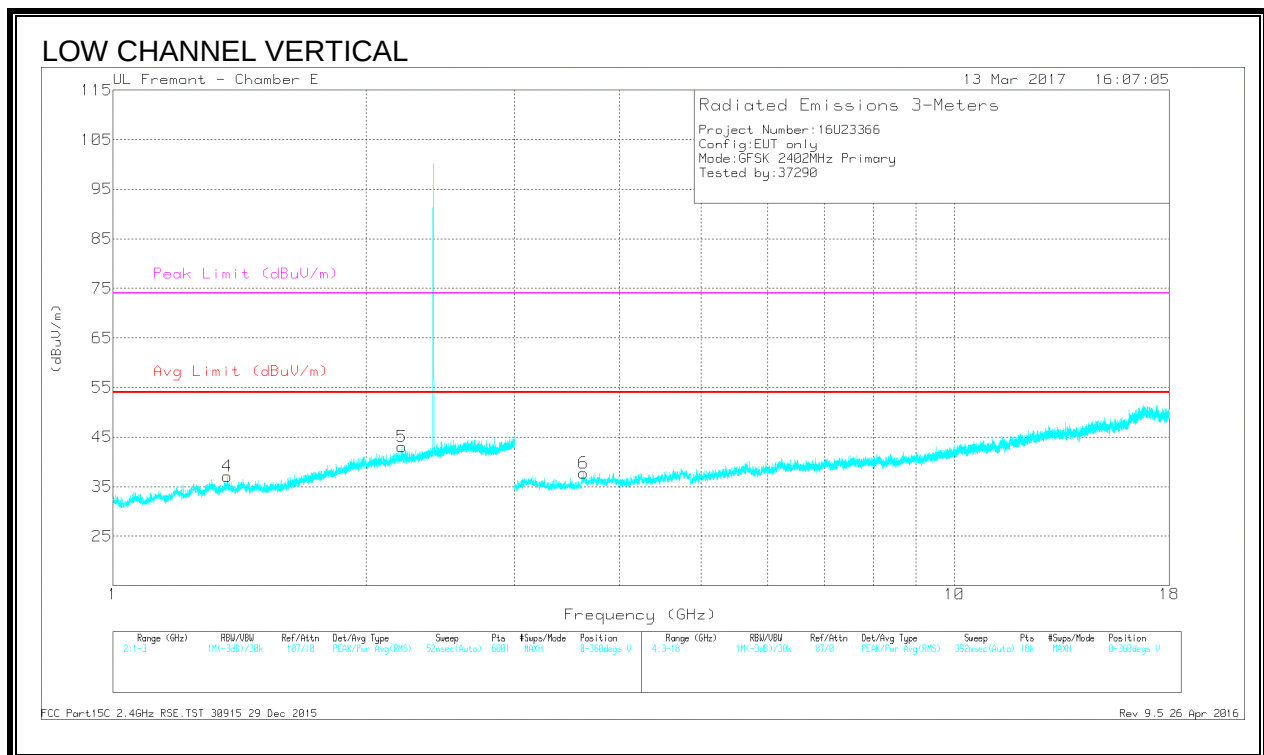
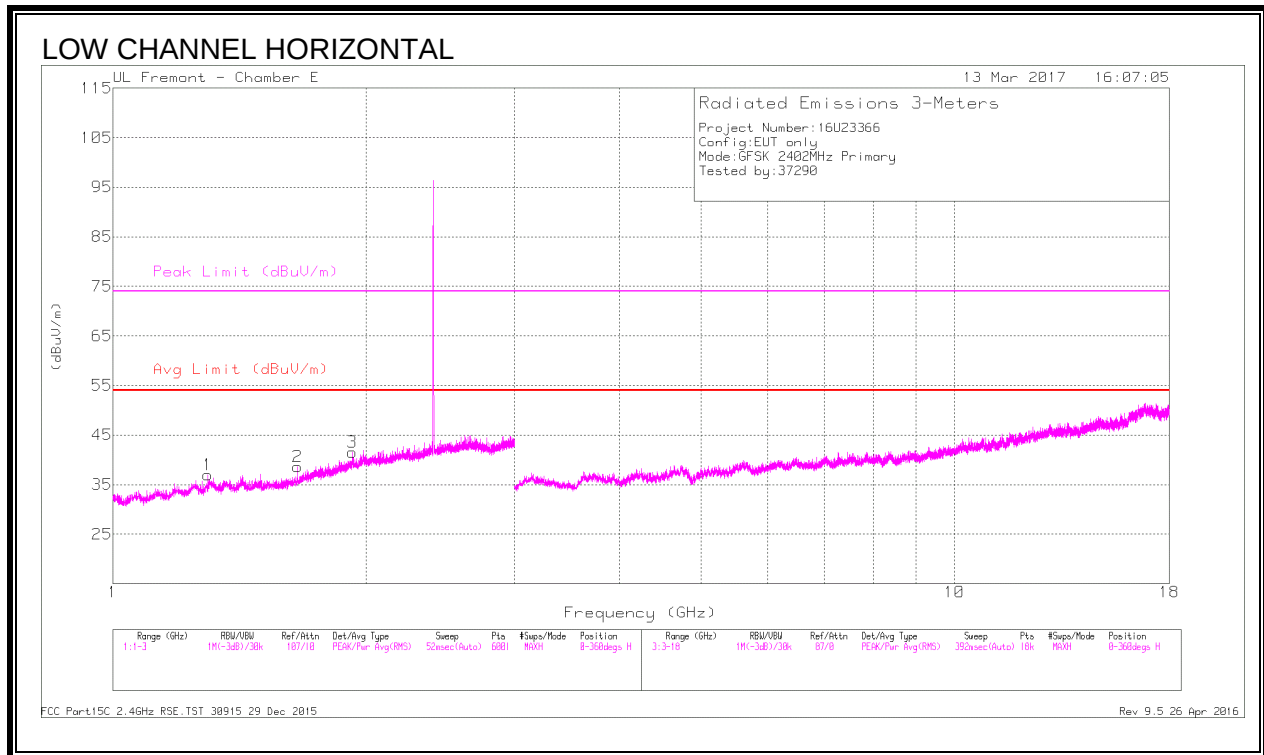
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.62	Pk	32.5	-19.7	50.42	-	-	74	-23.58	241	176	V
2	* 2.499	40.21	Pk	32.6	-19.9	52.91	-	-	74	-21.09	241	176	V
3	* 2.484	27.29	VA1T	32.5	-19.7	40.09	54	-13.91	-	-	241	176	V
4	* 2.484	27.29	VA1T	32.5	-19.7	40.09	54	-13.91	-	-	241	176	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

8.4.3. HARMONICS AND SPURIOUS EMISSIONS



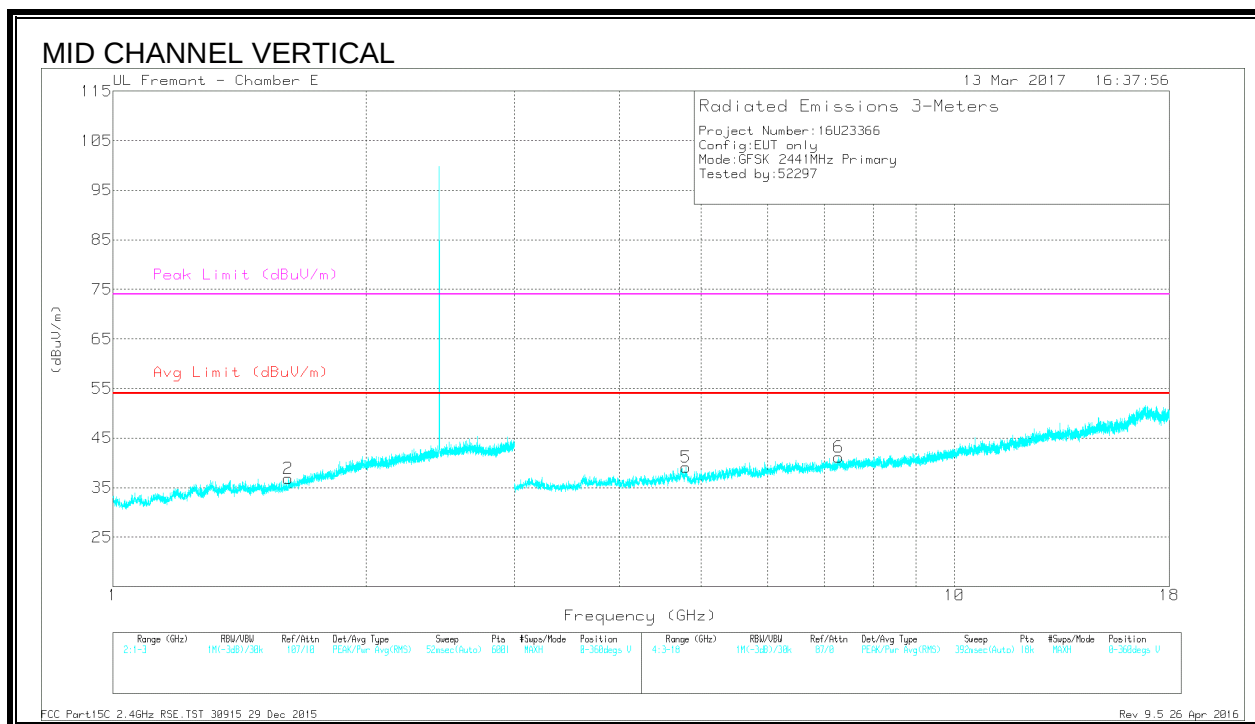
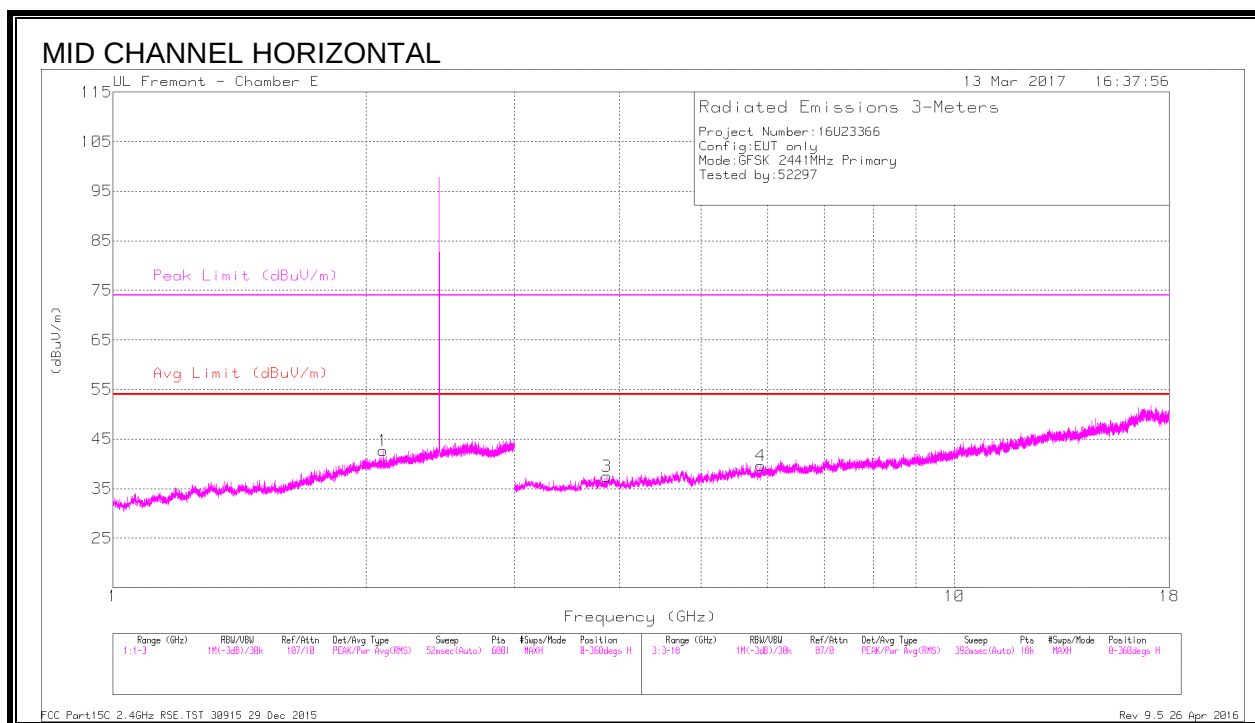
DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.297	35.97	PKFH	28.8	-21.9	42.87	-	-	74	-31.13	0	200	H
* 1.298	18.85	VA1T	28.8	-21.8	25.85	54	-28.15	-	-	0	200	H
* 1.368	36.84	PKFH	28.7	-21.6	43.94	-	-	74	-30.06	0	100	V
* 1.367	19.33	VA1T	28.7	-21.6	26.43	54	-27.57	-	-	0	100	V
* 2.206	36.14	PKFH	31.6	-19.5	48.24	-	-	74	-25.76	0	100	V
* 2.204	18.5	VA1T	31.6	-19.5	30.6	54	-23.4	-	-	0	100	V
* 3.629	41.07	PKFH	33	-30.2	43.87	-	-	74	-30.13	0	100	V
* 3.629	28.61	VA1T	33	-30.2	31.41	54	-22.59	-	-	0	100	V
1.655	36.47	PKFH	28.7	-20.7	44.47	-	-	-	-	0	200	H
1.926	35.89	PKFH	31	-20.1	46.79	-	-	-	-	0	200	H

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

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

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



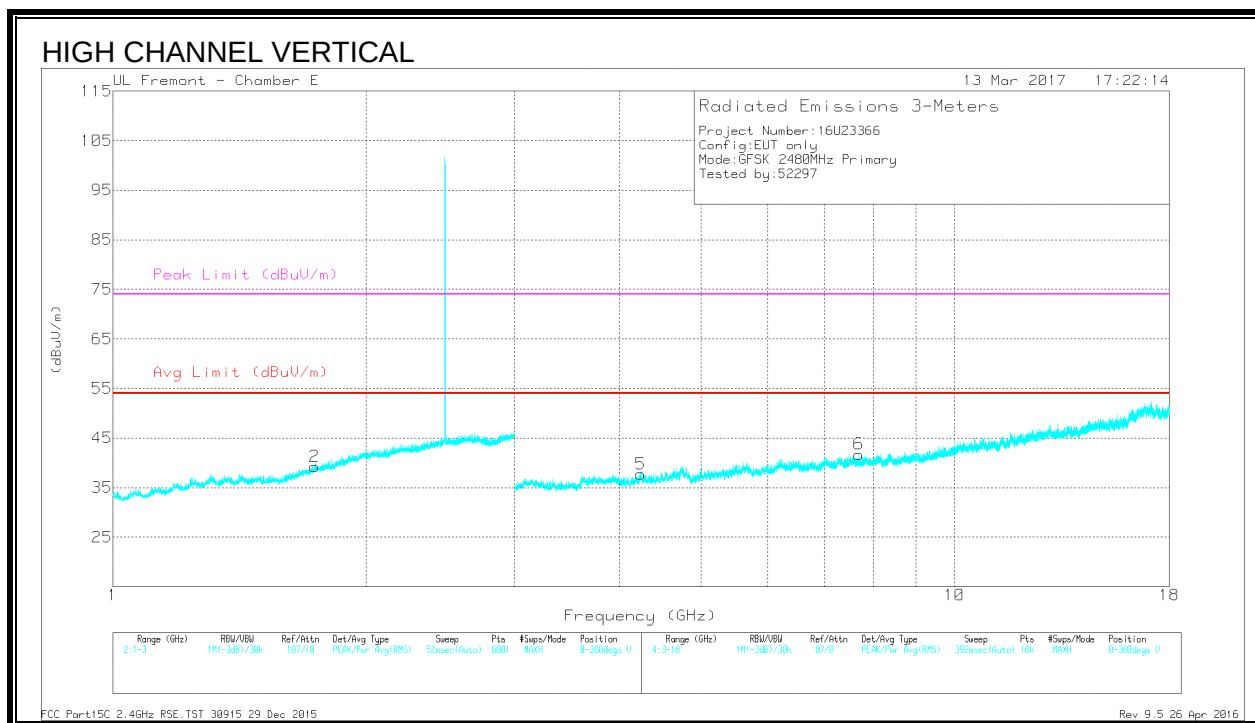
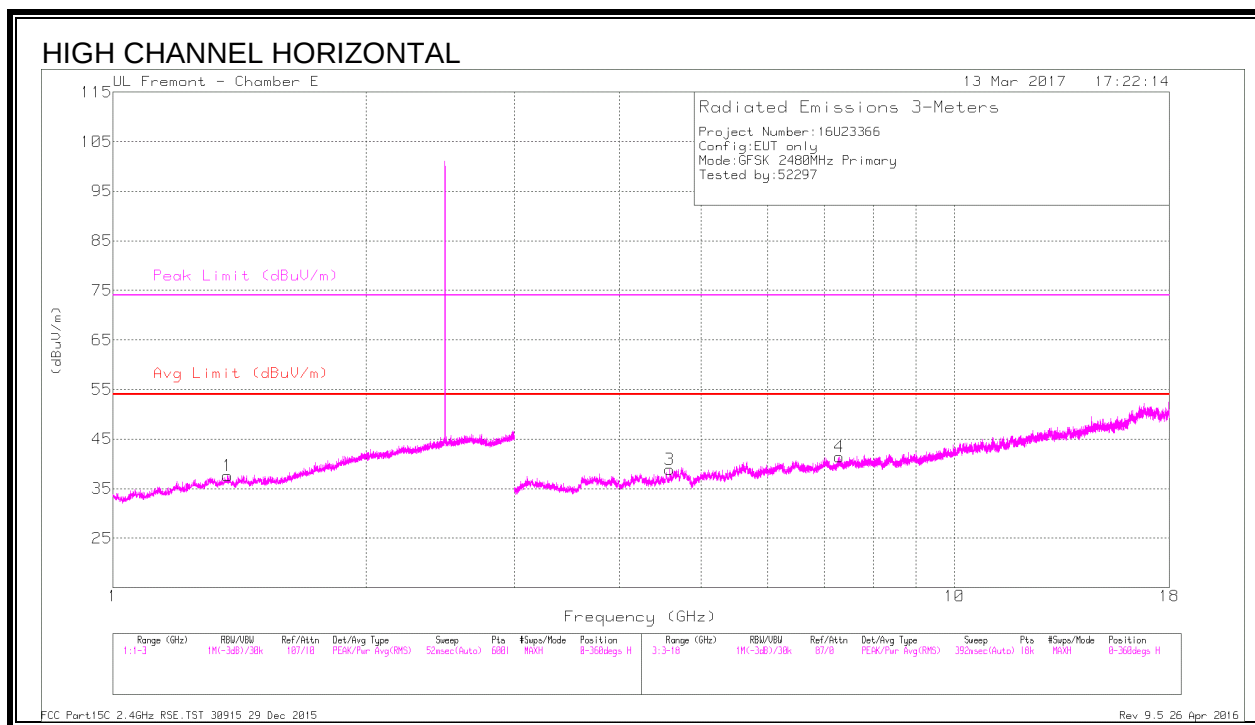
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.618	35.41	PKFH	28.3	-20.8	42.91	-	-	74	-31.09	93	196	V
	* 1.617	24.33	VA1T	28.3	-20.8	31.83	54	-22.17	-	-	93	196	V
3	* 3.864	41.5	PKFH	33.4	-30.9	44	-	-	74	-30	165	229	H
	* 3.866	29.57	VA1T	33.4	-30.9	32.07	54	-21.93	-	-	165	229	H
5	* 4.8	40.6	PKFH	34.2	-29.5	45.3	-	-	74	-28.7	199	284	V
	* 4.798	28.84	VA1T	34.2	-29.4	33.64	54	-20.36	-	-	199	284	V
6	* 7.292	37.4	PKFH	35.9	-26.3	47	-	-	74	-27	246	341	V
	* 7.292	26.06	VA1T	35.9	-26.3	35.66	54	-18.34	-	-	246	341	V
1	2.092	36.58	PKFH	31.3	-20.2	47.68	-	-	-	-	50	139	H
4	5.888	39.26	PKFH	35	-29.3	44.96	-	-	-	-	132	270	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



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.369	35.95	PKFH	28.7	-21.6	43.05	-	-	74	-30.95	273	235	H
	* 1.368	24.54	VA1T	28.7	-21.6	31.64	54	-22.36	-	-	273	235	H
3	* 4.59	40.97	PKFH	34.1	-30.1	44.97	-	-	74	-29.03	161	187	H
	* 4.592	28.88	VA1T	34.1	-30.1	32.88	54	-21.12	-	-	161	187	H
4	* 7.291	38.2	PKFH	35.9	-26.3	47.8	-	-	74	-26.2	207	269	H
	* 7.293	26.2	VA1T	35.9	-26.2	35.9	54	-18.1	-	-	207	269	H
5	* 4.24	39.35	PKFH	33.5	-28.6	44.25	-	-	74	-29.75	263	212	V
	* 4.238	28.2	VA1T	33.5	-28.7	33	54	-21	-	-	263	212	V
6	* 7.697	37.54	PKFH	36.1	-27.2	46.44	-	-	74	-27.56	290	141	V
	* 7.698	26.22	VA1T	36.1	-27.2	35.12	54	-18.88	-	-	290	141	V
2	1.737	36.58	PKFH	29.6	-20.2	45.98	-	-	-	-	305	321	V

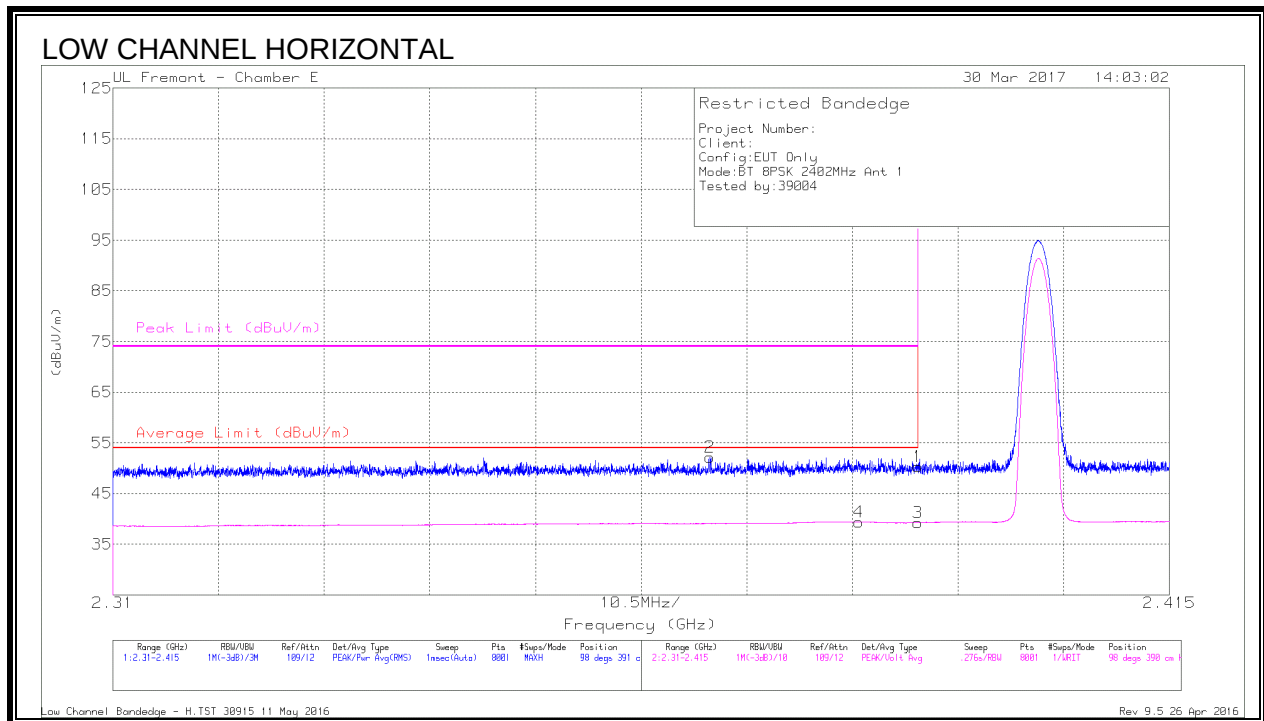
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

8.5. UAT 1, Primary PLOW ENHANCED DATA RATE 8PSK MODULATION

8.5.1. RESTRICTED BANDEDGE (LOW CHANNEL)



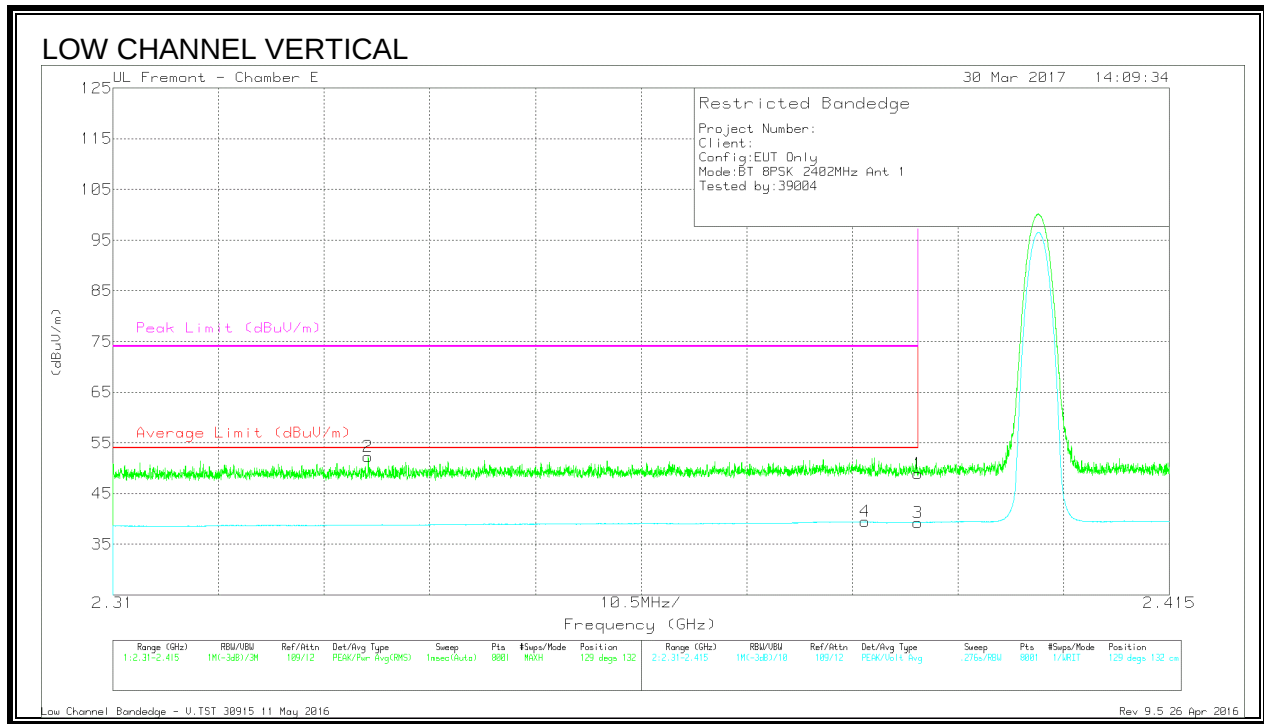
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.03	Pk	32	-19.7	50.33	-	-	74	-23.67	98	391	H
2	* 2.369	40	Pk	32	-19.8	52.2	-	-	74	-21.8	98	391	H
3	* 2.39	26.96	VA1T	32	-19.7	39.26	54	-14.74	-	-	98	390	H
4	* 2.384	26.92	VA1T	32	-19.5	39.42	54	-14.58	-	-	98	390	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



DATA

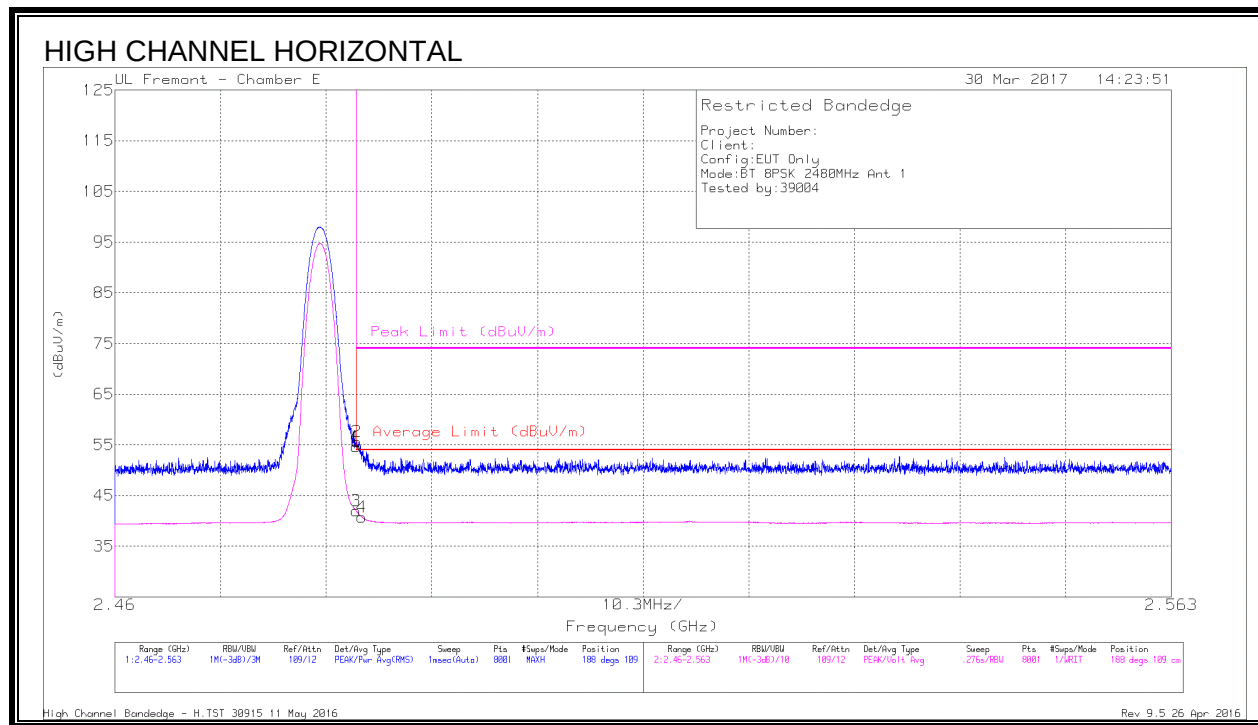
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.59	Pk	32	-19.7	48.89	-	-	74	-25.11	129	132	V
2	* 2.335	40.25	Pk	31.8	-19.8	52.25	-	-	74	-21.75	129	132	V
3	* 2.39	26.96	VA1T	32	-19.7	39.26	54	-14.74	-	-	129	132	V
4	* 2.385	26.94	VA1T	32	-19.5	39.44	54	-14.56	-	-	129	132	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

8.5.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



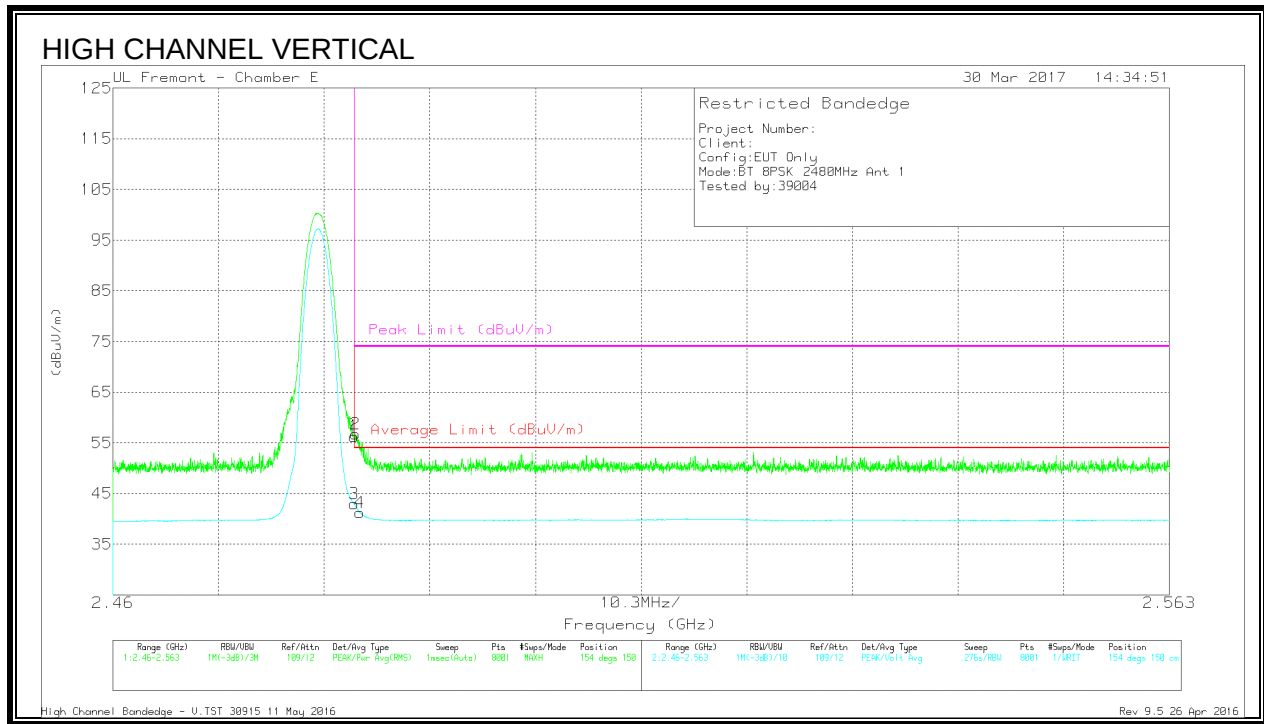
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	41.87	Pk	32.5	-19.7	54.67	-	-	74	-19.33	188	109	H
2	* 2.484	42.85	Pk	32.5	-19.7	55.65	-	-	74	-18.35	188	109	H
3	* 2.484	29.17	VA1T	32.5	-19.7	41.97	54	-12.03	-	-	188	109	H
4	* 2.484	27.91	VA1T	32.5	-19.7	40.71	54	-13.29	-	-	188	109	H

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

Pk - Peak detector

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



DATA

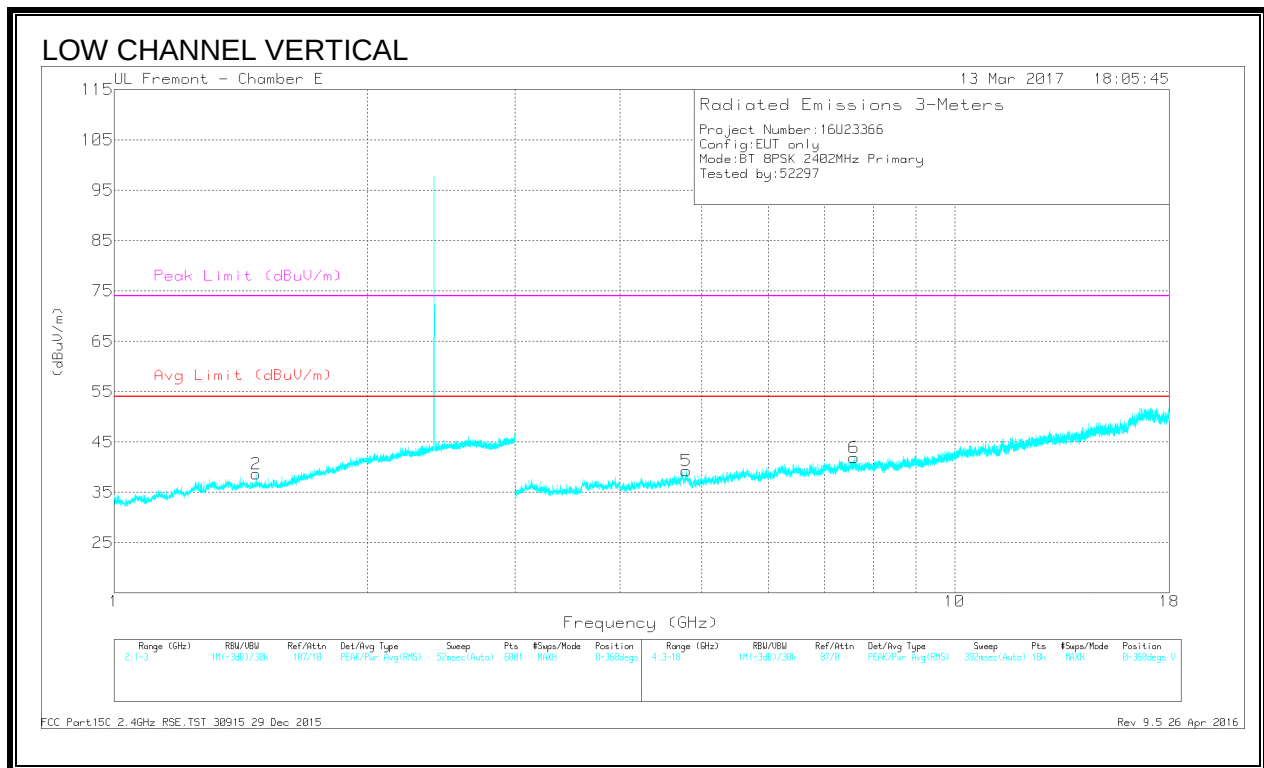
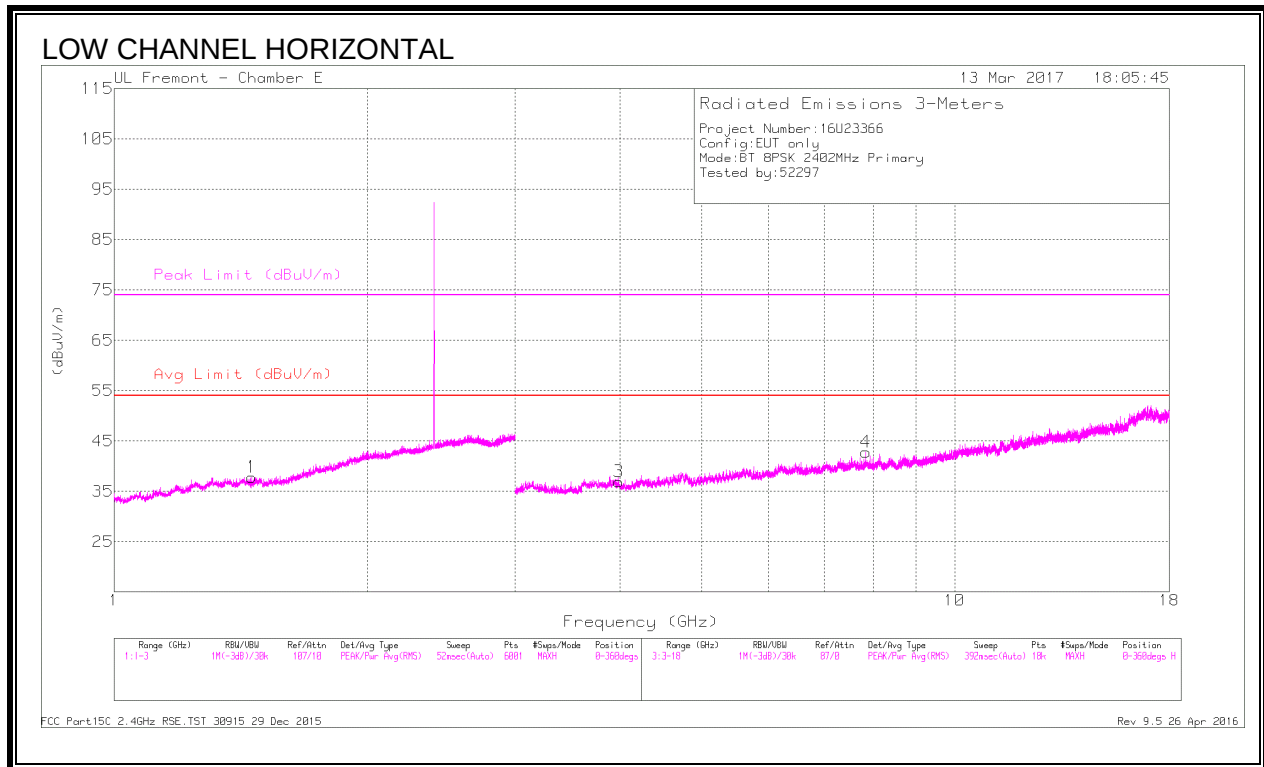
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.51	Pk	32.5	-19.7	56.31	-	-	74	-17.69	154	150	V
2	* 2.484	43.97	Pk	32.5	-19.7	56.77	-	-	74	-17.23	154	150	V
3	* 2.484	30.15	VA1T	32.5	-19.7	42.95	54	-11.05	-	-	154	150	V
4	* 2.484	28.45	VA1T	32.5	-19.7	41.25	54	-12.75	-	-	154	150	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

8.5.3. HARMONICS AND SPURIOUS EMISSIONS



DATA

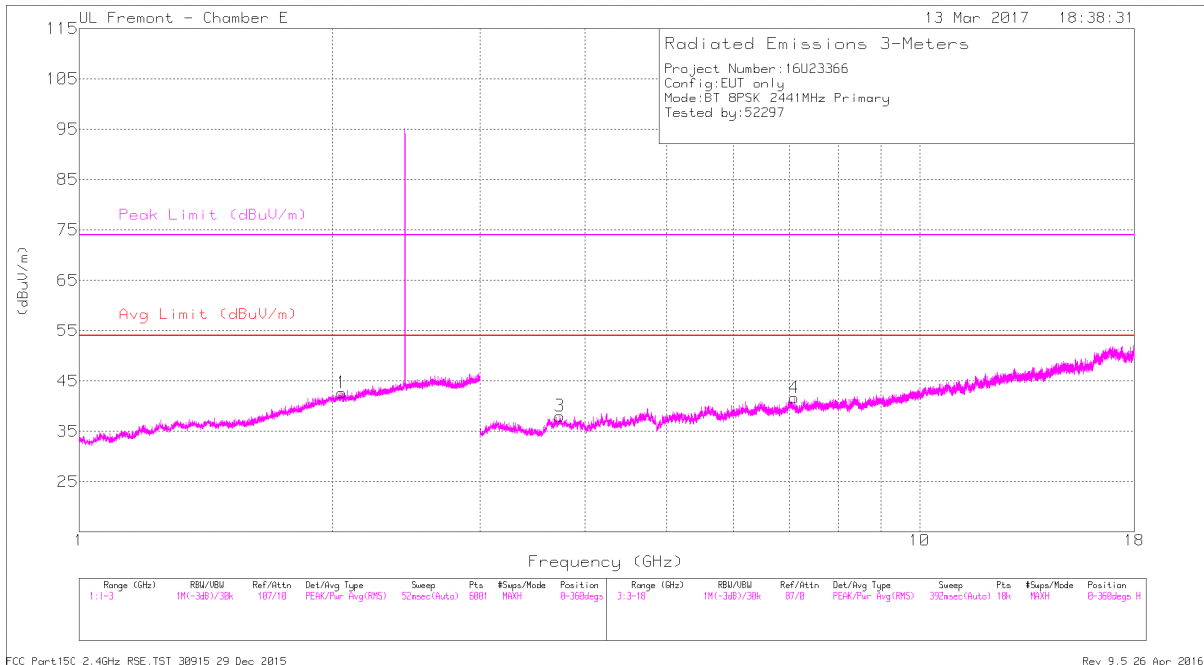
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1	* 1.457	35.6	PKFH	28.3	-21.2	42.7	-	-	74	-31.3	146	195	H
	* 1.458	24.17	VA1T	28.3	-21.2	31.27	54	-22.73	-	-	146	195	H
2	* 1.478	35.02	PKFH	28.2	-20.9	42.32	-	-	74	-31.68	317	229	V
	* 1.478	24.22	VA1T	28.2	-21	31.42	54	-22.58	-	-	317	229	V
3	* 3.983	39.14	PKFH	33.3	-29.4	43.04	-	-	74	-30.96	281	252	H
	* 3.983	27.88	VA1T	33.3	-29.4	31.78	54	-22.22	-	-	281	252	H
5	* 4.793	40.12	PKFH	34.2	-29.7	44.62	-	-	74	-29.38	160	376	V
	* 4.794	29.1	VA1T	34.2	-29.7	33.6	54	-20.4	-	-	160	376	V
6	* 7.592	36.79	PKFH	36.1	-25.6	47.29	-	-	74	-26.71	209	303	V
	* 7.592	25.16	VA1T	36.1	-25.6	35.66	54	-18.34	-	-	209	303	V
4	7.843	36.73	PKFH	36.1	-25.3	47.53	-	-	-	-	227	365	H

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

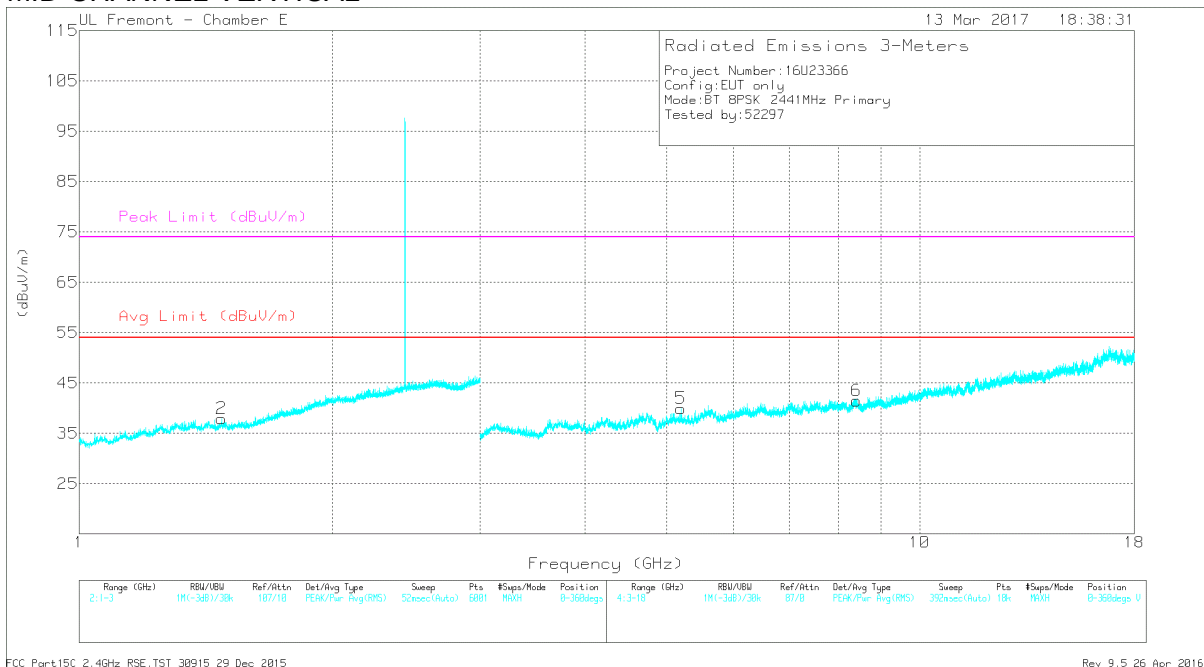
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



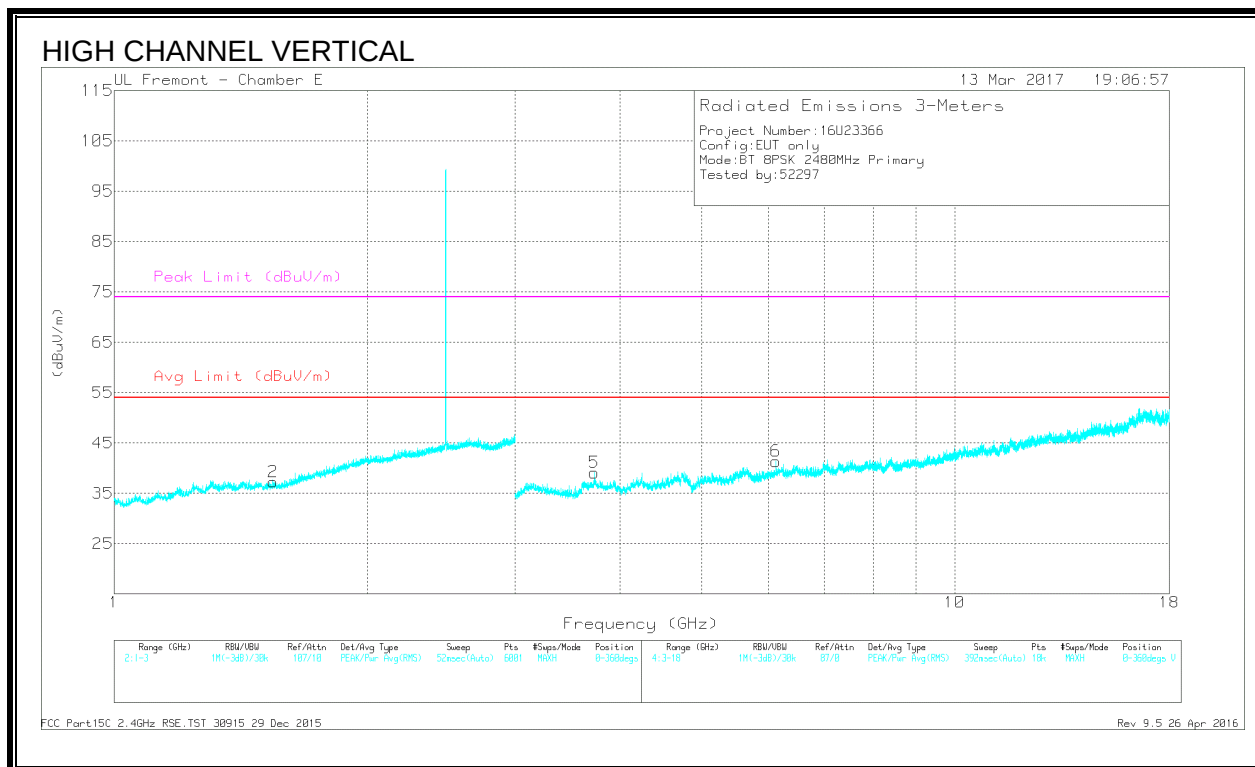
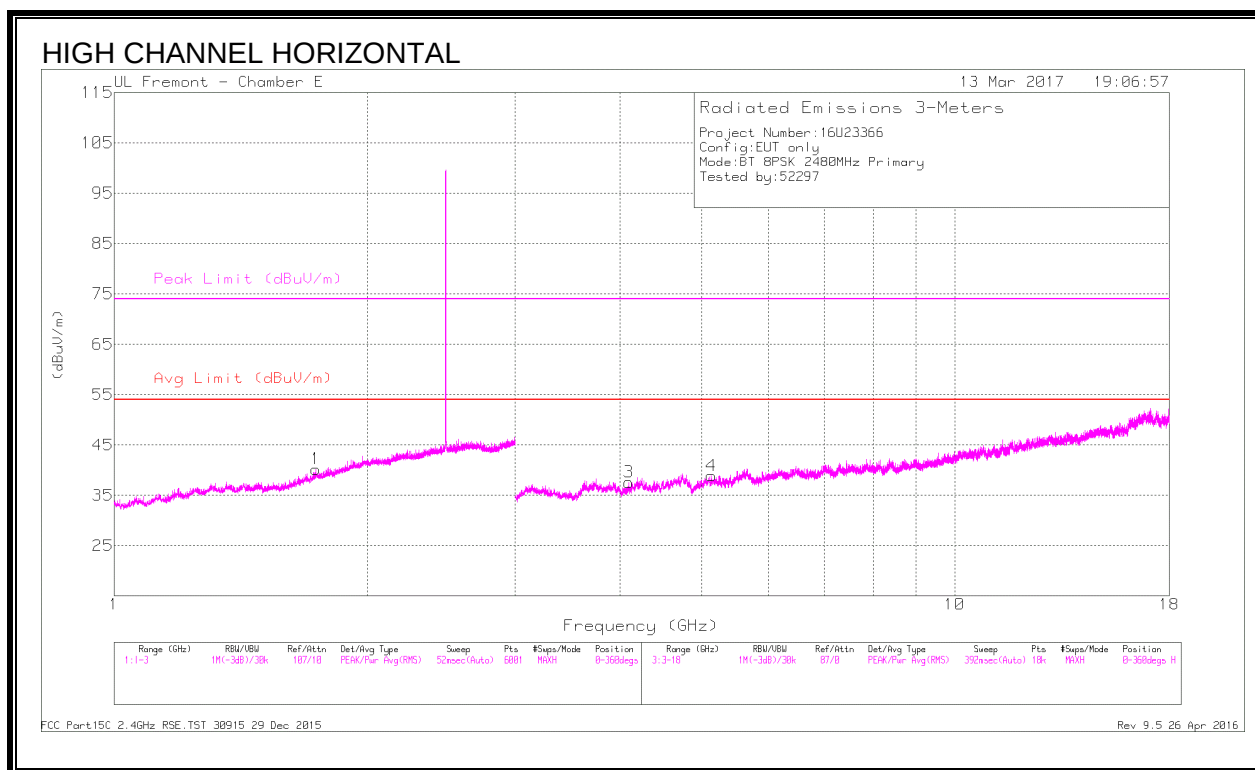
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.475	36.69	PKFH	28.2	-20.9	43.99	-	-	74	-30.01	334	171	V
	* 1.478	24.21	VA1T	28.2	-20.9	31.51	54	-22.49	-	-	334	171	V
3	* 3.732	40.85	PKFH	33.4	-29.7	44.55	-	-	74	-29.45	357	196	H
	* 3.734	29.18	VA1T	33.4	-29.7	32.88	54	-21.12	-	-	357	196	H
6	* 8.411	37.38	PKFH	36	-25.3	48.08	-	-	74	-25.92	94	216	V
	* 8.412	25.39	VA1T	36	-25.3	36.09	54	-17.91	-	-	94	216	V
1	2.052	36.25	PKFH	31.4	-20.2	47.45	-	-	-	-	309	154	H
5	5.196	40.85	PKFH	34.4	-29.9	45.35	-	-	-	-	206	328	V
4	7.09	38.74	PKFH	35.8	-27.5	47.04	-	-	-	-	282	238	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



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.544	35.43	PKFH	28.1	-20.9	42.63	-	-	74	-31.37	263	196	V
	* 1.546	24.23	VA1T	28.1	-20.8	31.53	54	-22.47	-	-	263	196	V
3	* 4.097	40.91	PKFH	33.5	-30.7	43.71	-	-	74	-30.29	111	226	H
	* 4.097	29.01	VA1T	33.5	-30.7	31.81	54	-22.19	-	-	111	226	H
4	* 5.136	40.35	PKFH	34.3	-30.1	44.55	-	-	74	-29.45	152	343	H
	* 5.138	28.81	VA1T	34.3	-30.2	32.91	54	-21.09	-	-	152	343	H
5	* 3.727	40.75	PKFH	33.4	-29.9	44.25	-	-	74	-29.75	201	286	V
	* 3.727	29.09	VA1T	33.4	-29.9	32.59	54	-21.41	-	-	201	286	V
1	1.737	35.42	PKFH	29.6	-20.2	44.82	-	-	-	-	246	163	H
6	6.124	39.85	PKFH	35.6	-28.7	46.75	-	-	-	-	322	124	V

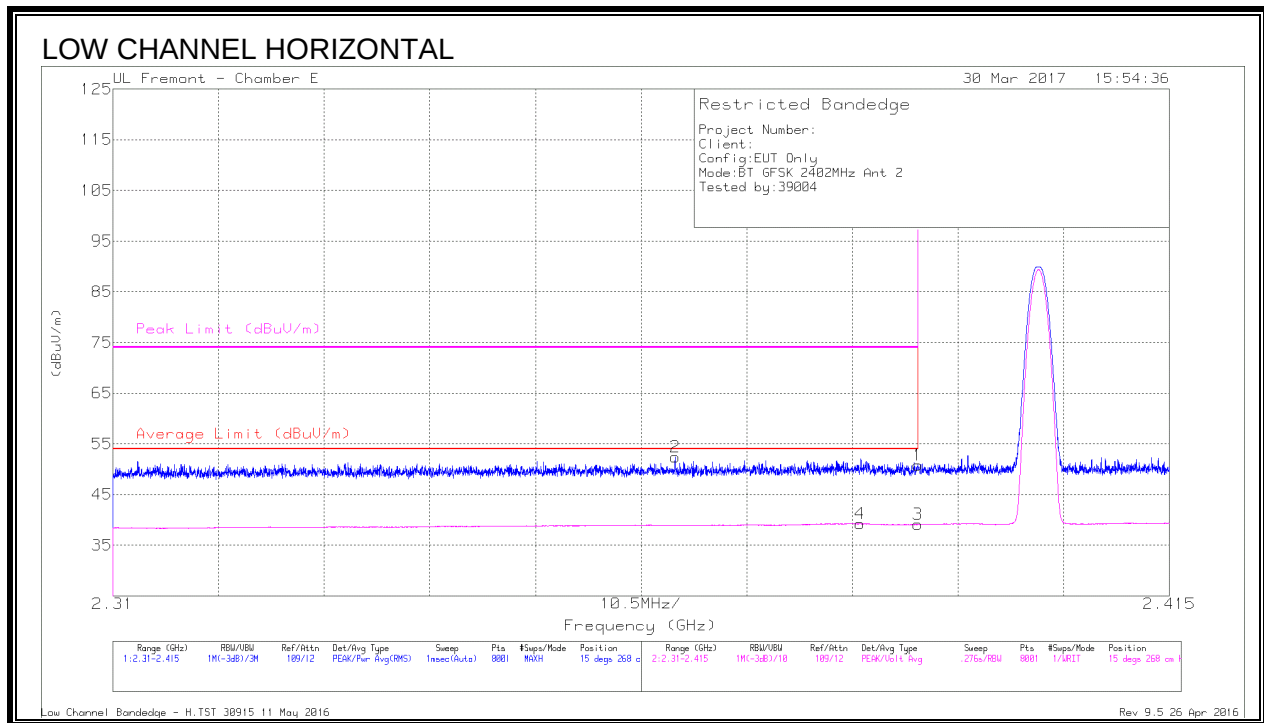
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

8.6. LAT 3, Diversity PMAX BASIC DATA RATE GFSK MODULATION

8.6.1. RESTRICTED BANDEDGE (LOW CHANNEL)



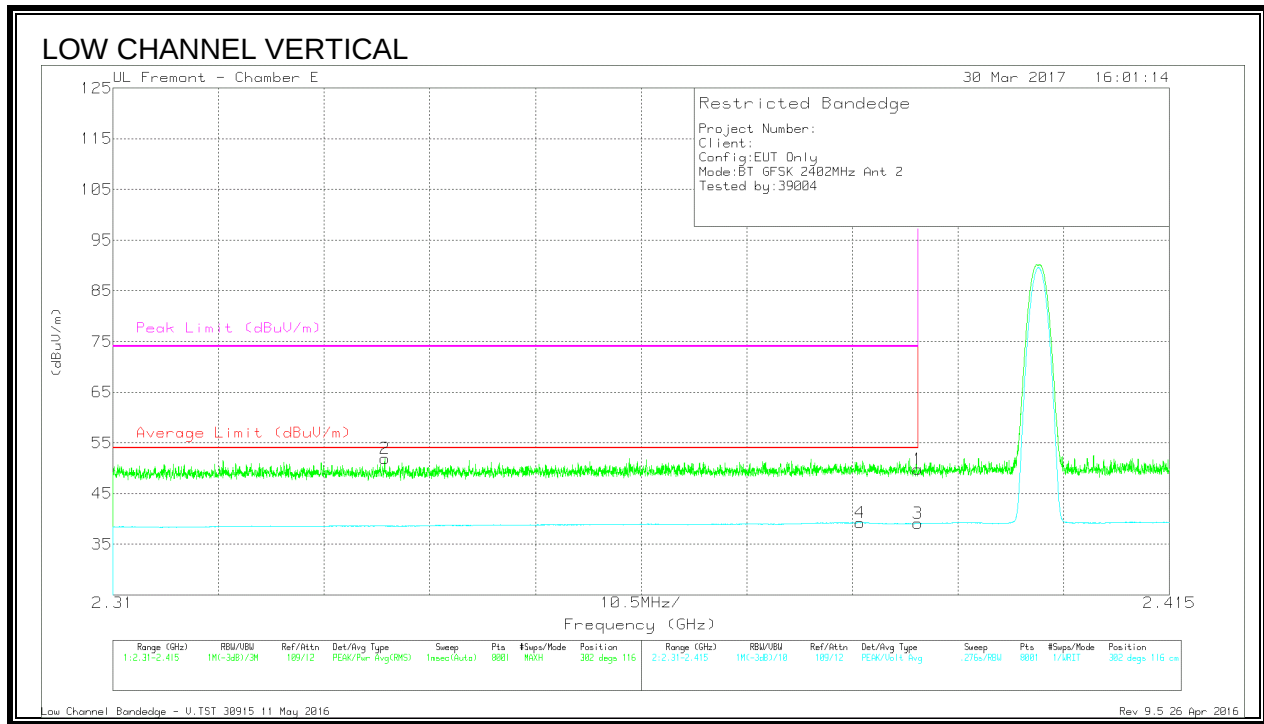
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.39	38.51	Pk	32	-19.7	50.81	-	-	74	-23.19	15	268	H
2	* 2.366	40.3	Pk	31.9	-19.8	52.4	-	-	74	-21.6	15	268	H
3	* 2.39	26.78	VA1T	32	-19.7	39.08	54	-14.92	-	-	15	268	H
4	* 2.384	26.75	VA1T	32	-19.5	39.25	54	-14.75	-	-	15	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



DATA

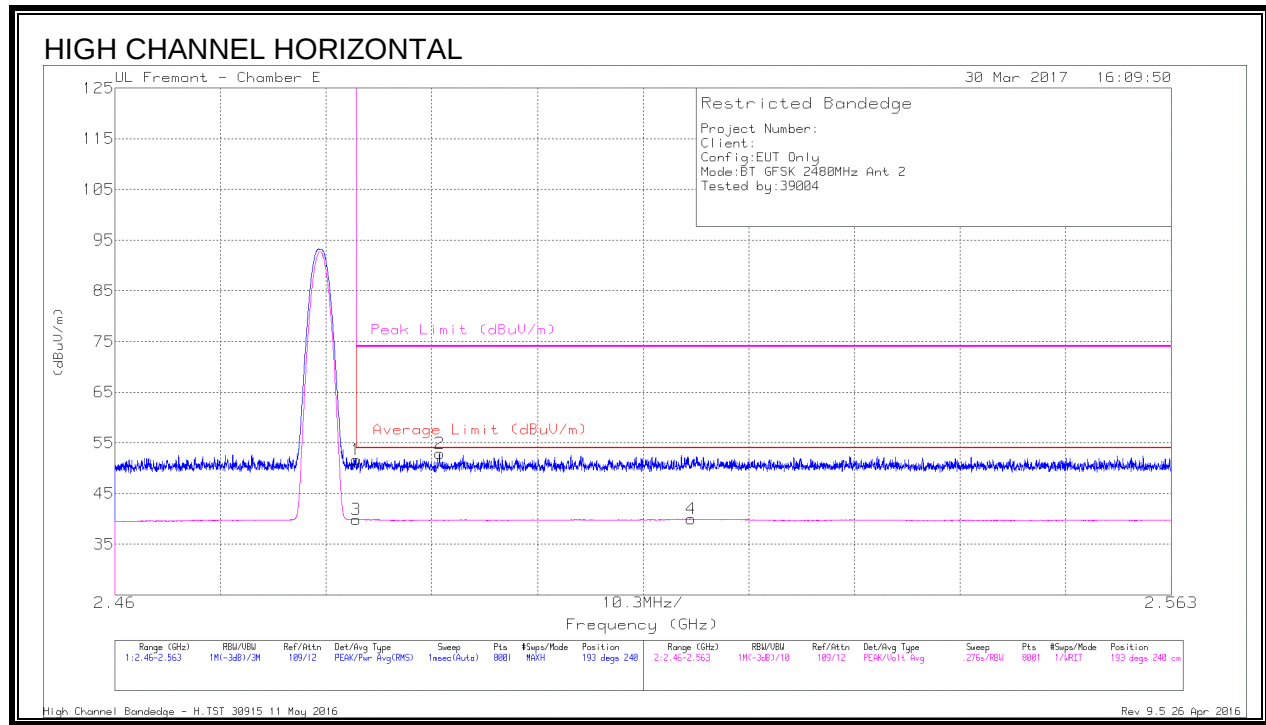
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.49	Pk	32	-19.7	49.79	-	-	74	-24.21	302	116	V
2	* 2.337	39.9	Pk	31.8	-19.8	51.9	-	-	74	-22.1	302	116	V
3	* 2.39	26.78	VA1T	32	-19.7	39.08	54	-14.92	-	-	302	116	V
4	* 2.384	26.75	VA1T	32	-19.5	39.25	54	-14.75	-	-	302	116	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

8.6.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



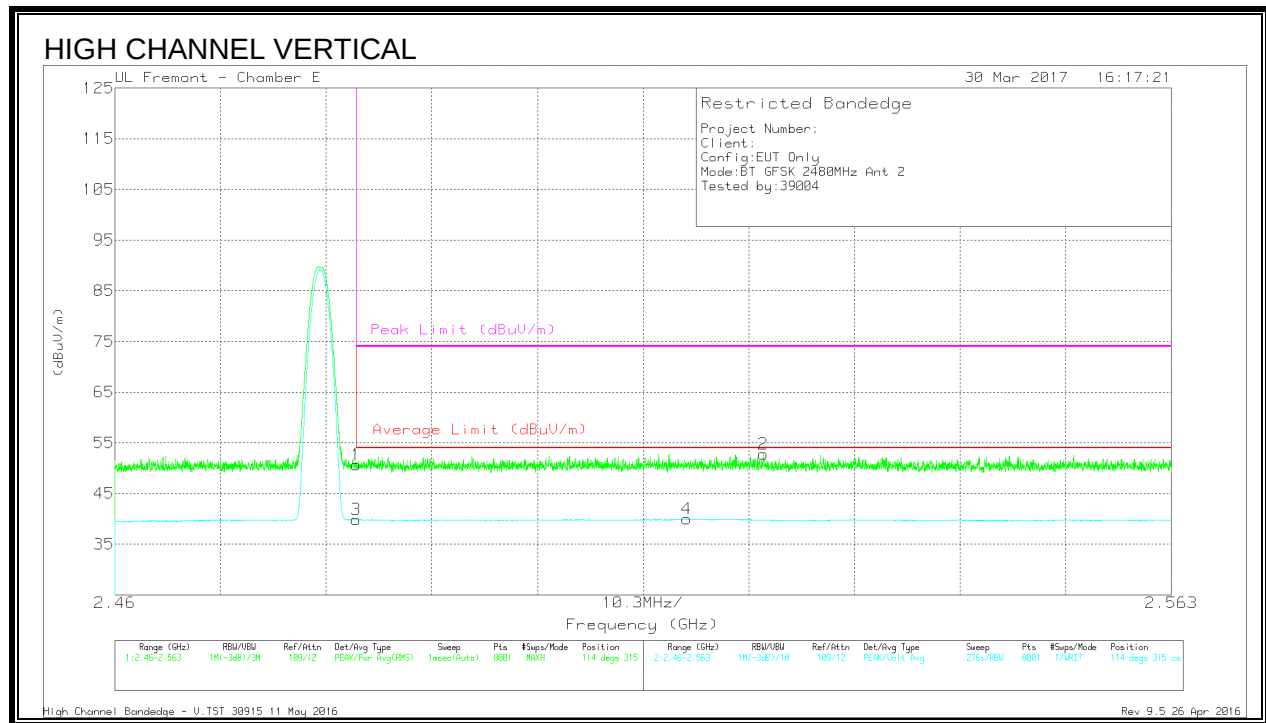
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	38.91	Pk	32.5	-19.7	51.71	-	-	74	-22.29	193	240	H
2	* 2.492	40.24	Pk	32.6	-19.9	52.94	-	-	74	-21.06	193	240	H
3	* 2.484	27.07	VA1T	32.5	-19.7	39.87	54	-14.13	-	-	193	240	H
4	2.516	27.05	VA1T	32.6	-19.7	39.95	54	-14.05	-	-	193	240	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



DATA

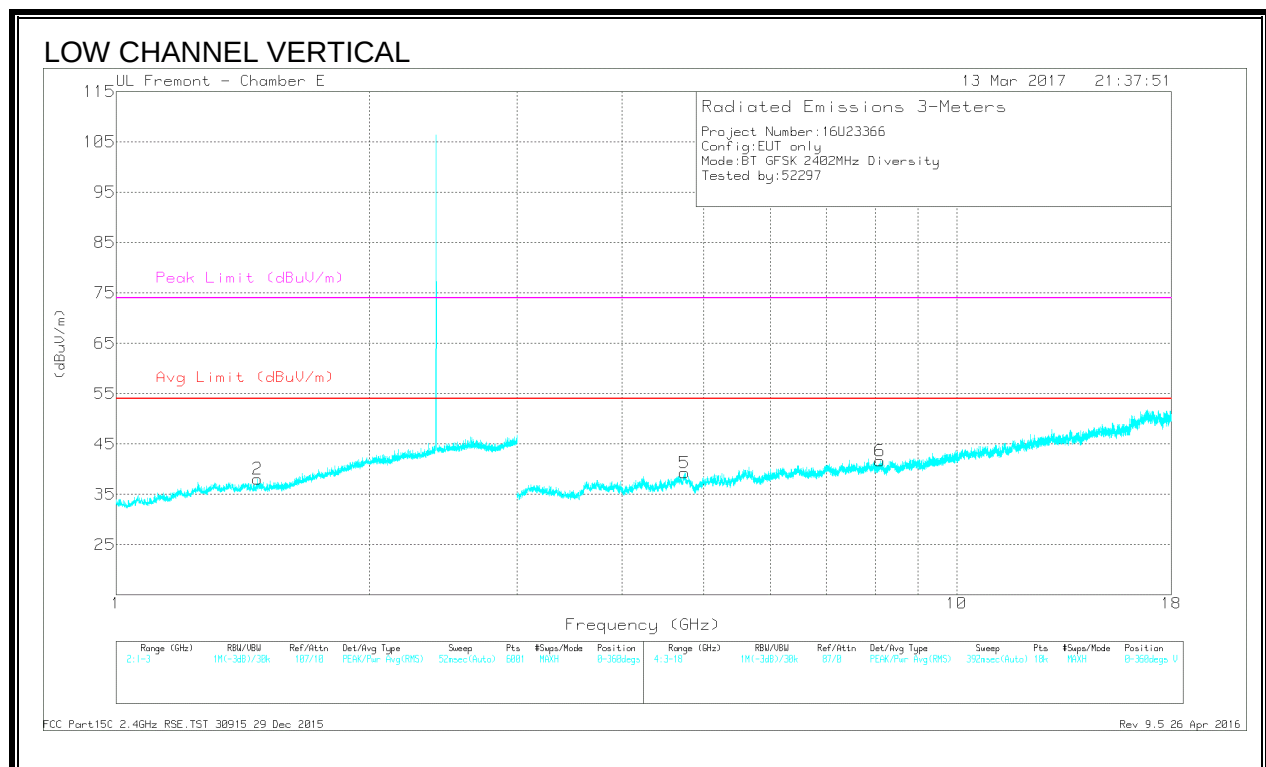
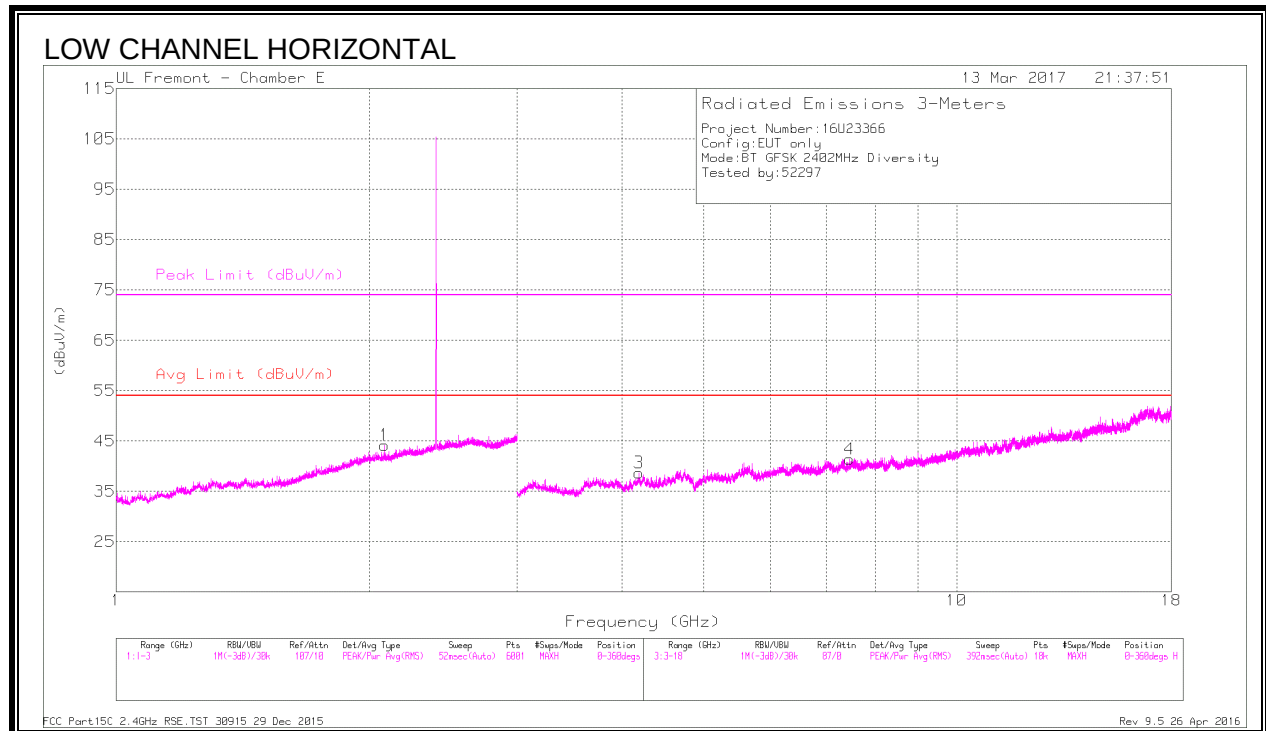
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.88	Pk	32.5	-19.7	50.68	-	-	74	-23.32	114	315	V
3	* 2.484	27.04	VA1T	32.5	-19.7	39.84	54	-14.16	-	-	114	315	V
4	2.516	27.05	VA1T	32.6	-19.7	39.95	54	-14.05	-	-	114	315	V
2	2.523	40.04	Pk	32.6	-19.9	52.74	-	-	74	-21.26	114	315	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

8.6.3. HARMONICS AND SPURIOUS EMISSIONS



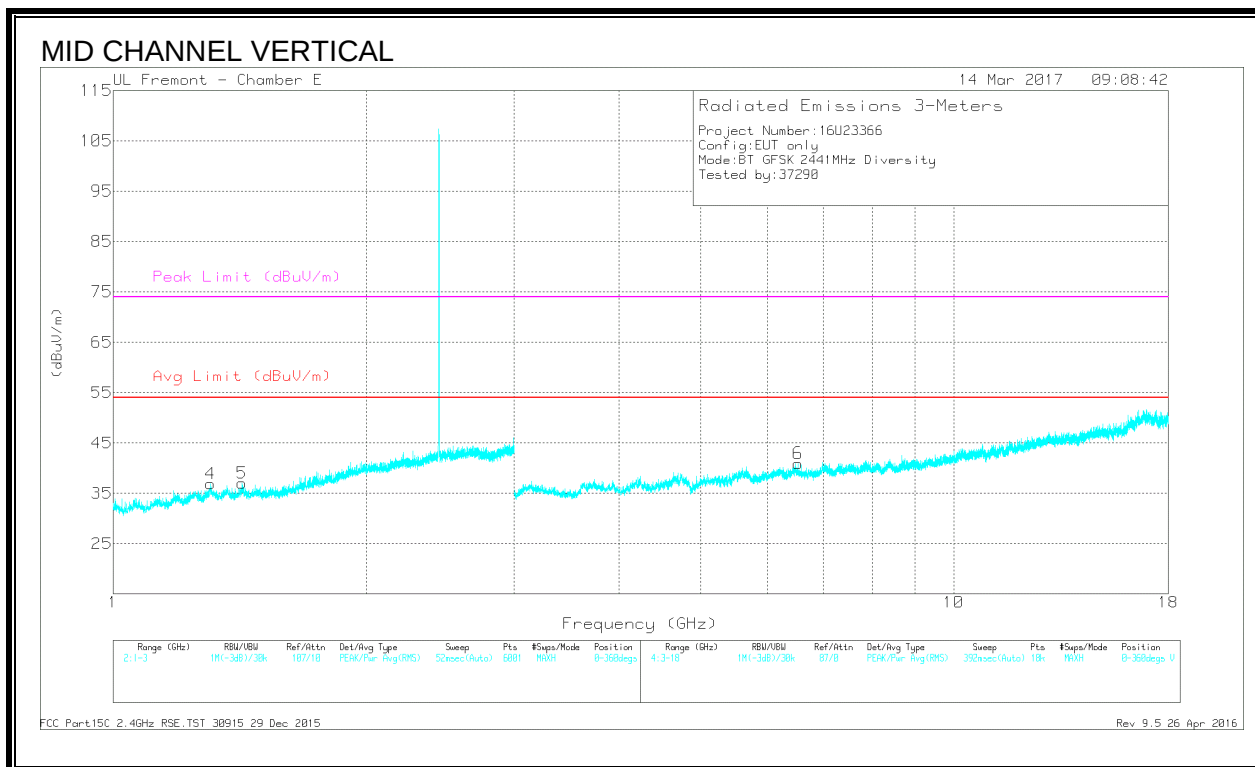
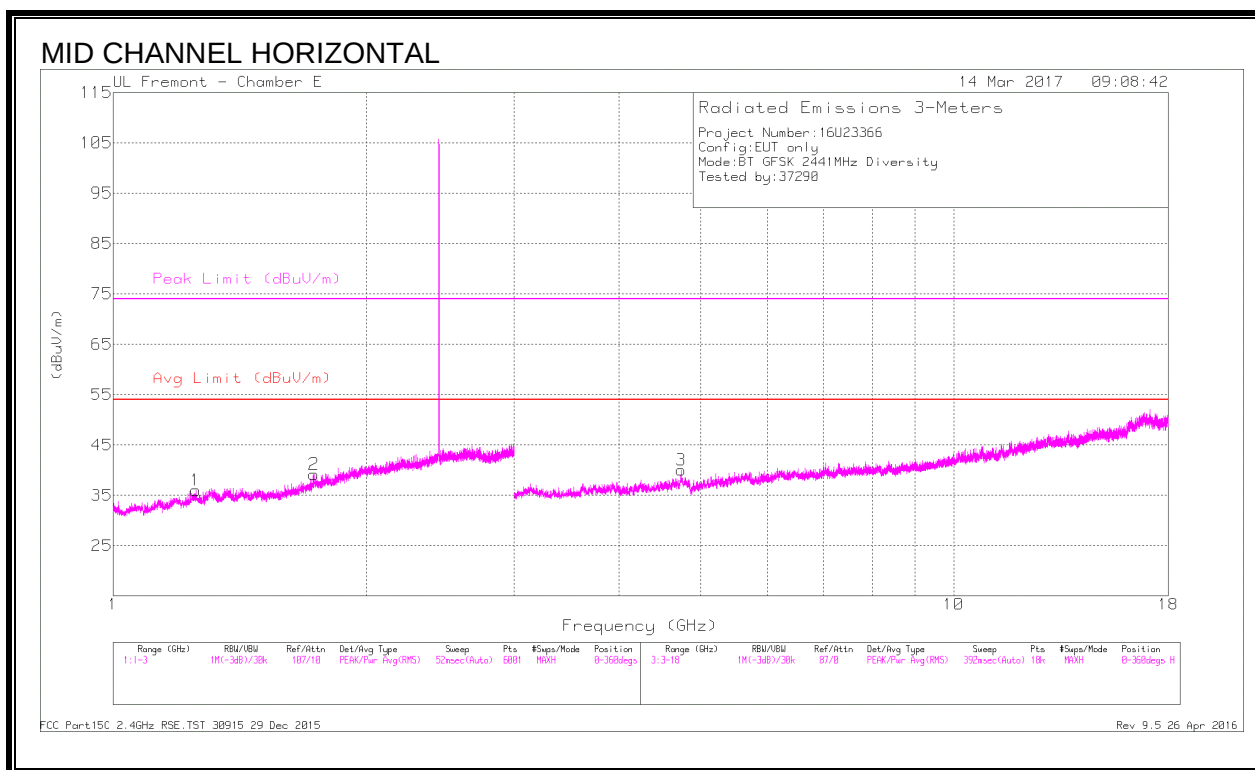
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.085	37.45	PKFH	31.4	-20.2	48.65	-	-	-	-	80	107	H
2	* 1.473	36.41	PKFH	28.2	-21	43.61	-	-	74	-30.39	301	306	V
	* 1.476	24.2	VA1T	28.2	-20.9	31.5	54	-22.5	-	-	301	306	V
3	* 4.189	40.26	PKFH	33.5	-29.6	44.16	-	-	74	-29.84	220	340	H
	* 4.189	28.89	VA1T	33.5	-29.6	32.79	54	-21.21	-	-	220	340	H
4	* 7.456	38.71	PKFH	36	-27.4	47.31	-	-	74	-26.69	261	111	H
	* 7.456	26.76	VA1T	36	-27.4	35.36	54	-18.64	-	-	261	111	H
5	* 4.745	40.8	PKFH	34.3	-29.1	46	-	-	74	-28	24	192	V
	* 4.743	28.67	VA1T	34.3	-29	33.97	54	-20.03	-	-	24	192	V
6	* 8.107	37.05	PKFH	36	-25.6	47.45	-	-	74	-26.55	325	353	V
	* 8.107	25.38	VA1T	36	-25.6	35.78	54	-18.22	-	-	325	353	V

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

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

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



DATA

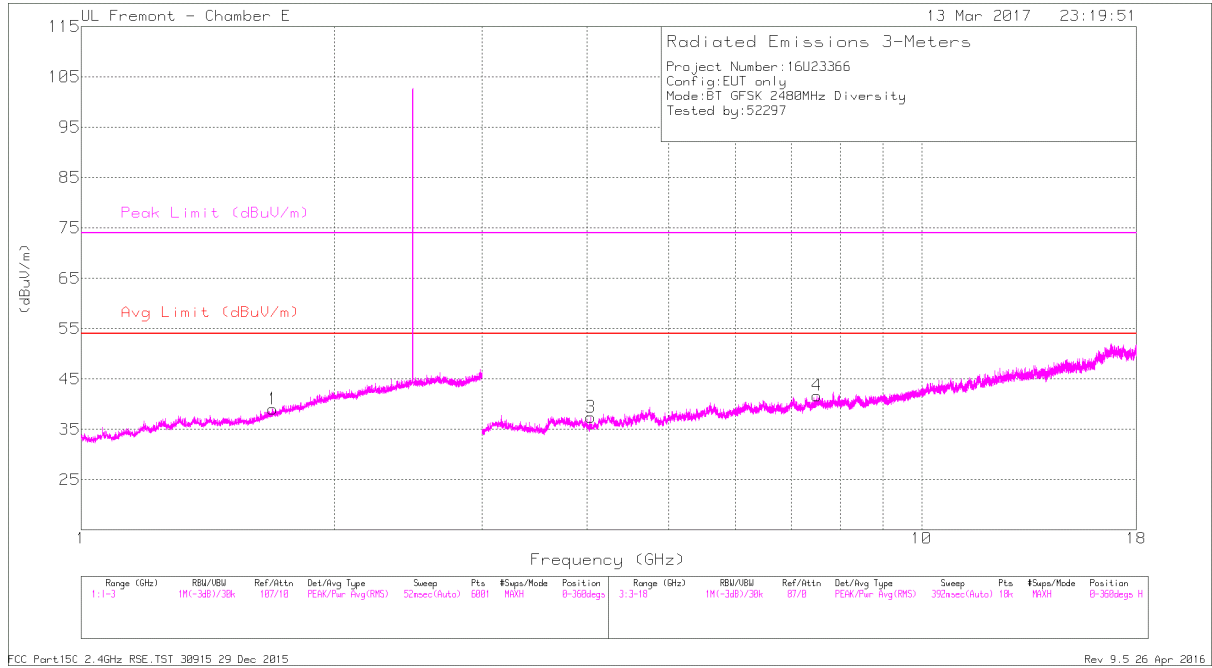
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.255	35.59	PKFH	28.5	-22	42.09	-	-	74	-31.91	360	200	H
* 1.253	19.57	VA1T	28.5	-21.9	26.17	54	-27.83	-	-	360	200	H
* 1.306	36.04	PKFH	28.8	-21.8	43.04	-	-	74	-30.96	360	101	V
* 1.307	19.49	VA1T	28.8	-21.7	26.59	54	-27.41	-	-	360	101	V
* 1.423	35.69	PKFH	28.5	-21.3	42.89	-	-	74	-31.11	360	101	V
* 1.423	19.16	VA1T	28.5	-21.3	26.36	54	-27.64	-	-	360	101	V
* 4.741	40.04	PKFH	34.3	-28.9	45.44	-	-	74	-28.56	360	101	H
* 4.741	28.22	VA1T	34.3	-28.9	33.62	54	-20.38	-	-	360	101	H
1.734	36.02	PKFH	29.6	-20.3	45.32	-	-	-	-	360	101	H
6.532	39.78	PKFH	35.7	-28.4	47.08	-	-	-	-	360	101	V

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

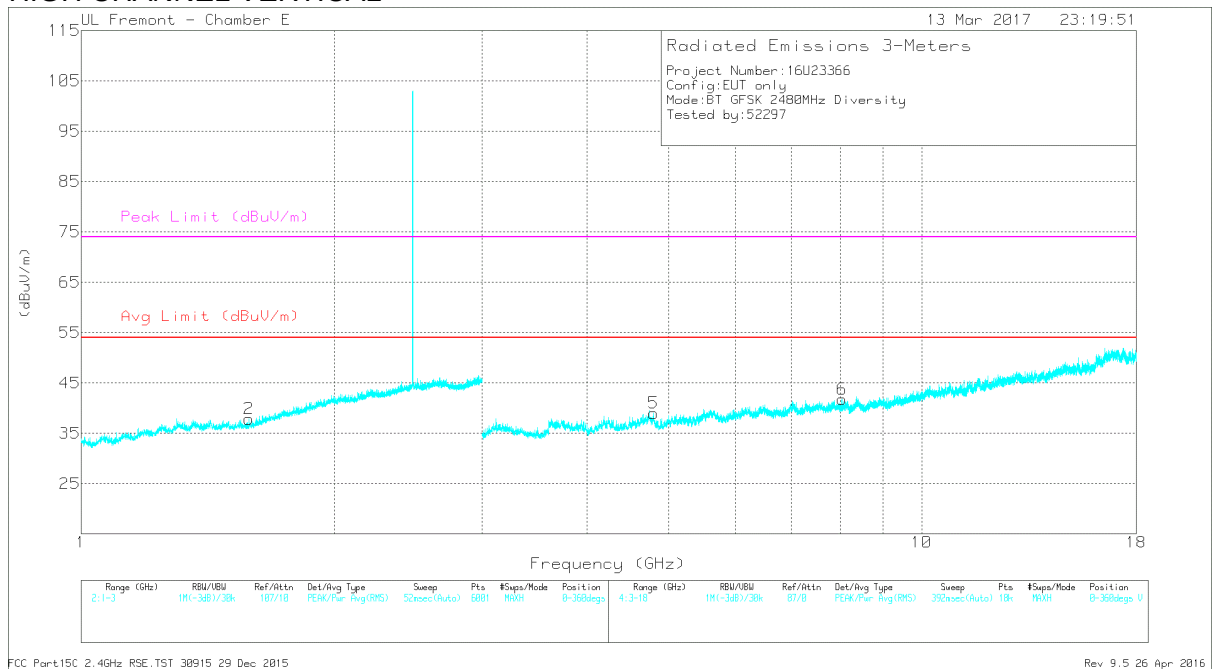
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.69	35.23	PKFH	29.1	-20.6	43.73	-	-	74	-30.27	323	170	H
	* 1.692	24.34	VA1T	29.2	-20.5	33.04	54	-20.96	-	-	323	170	H
2	* 1.584	35.21	PKFH	28.1	-21.1	42.21	-	-	74	-31.79	19	332	V
	* 1.585	24.27	VA1T	28.1	-21	31.37	54	-22.63	-	-	19	332	V
3	* 4.039	40.22	PKFH	33.4	-30.3	43.32	-	-	74	-30.68	173	205	H
	* 4.039	28.31	VA1T	33.4	-30.3	31.41	54	-22.59	-	-	173	205	H
4	* 7.504	37.9	PKFH	36.1	-27	47	-	-	74	-27	251	306	H
	* 7.503	26.26	VA1T	36.1	-27	35.36	54	-18.64	-	-	251	306	H
5	* 4.797	40.49	PKFH	34.2	-29.5	45.19	-	-	74	-28.81	332	349	V
	* 4.797	28.88	VA1T	34.2	-29.5	33.58	54	-20.42	-	-	332	349	V
6	* 8.043	37.65	PKFH	36	-26.6	47.05	-	-	74	-26.95	246	319	V
	* 8.043	26.06	VA1T	36	-26.6	35.46	54	-18.54	-	-	246	319	V

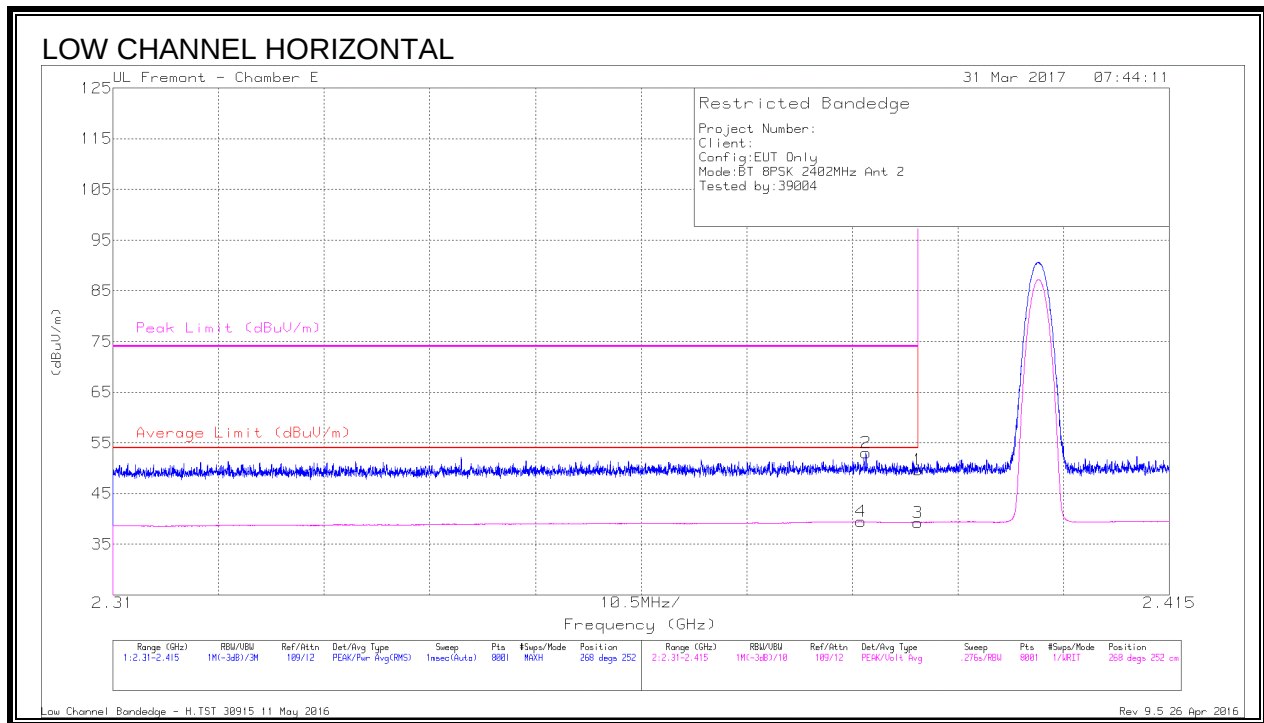
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

8.7. LAT 3, Diversity PMA ENHANCED DATA RATE 8PSK MODULATION

8.7.1. RESTRICTED BANDEDGE (LOW CHANNEL)



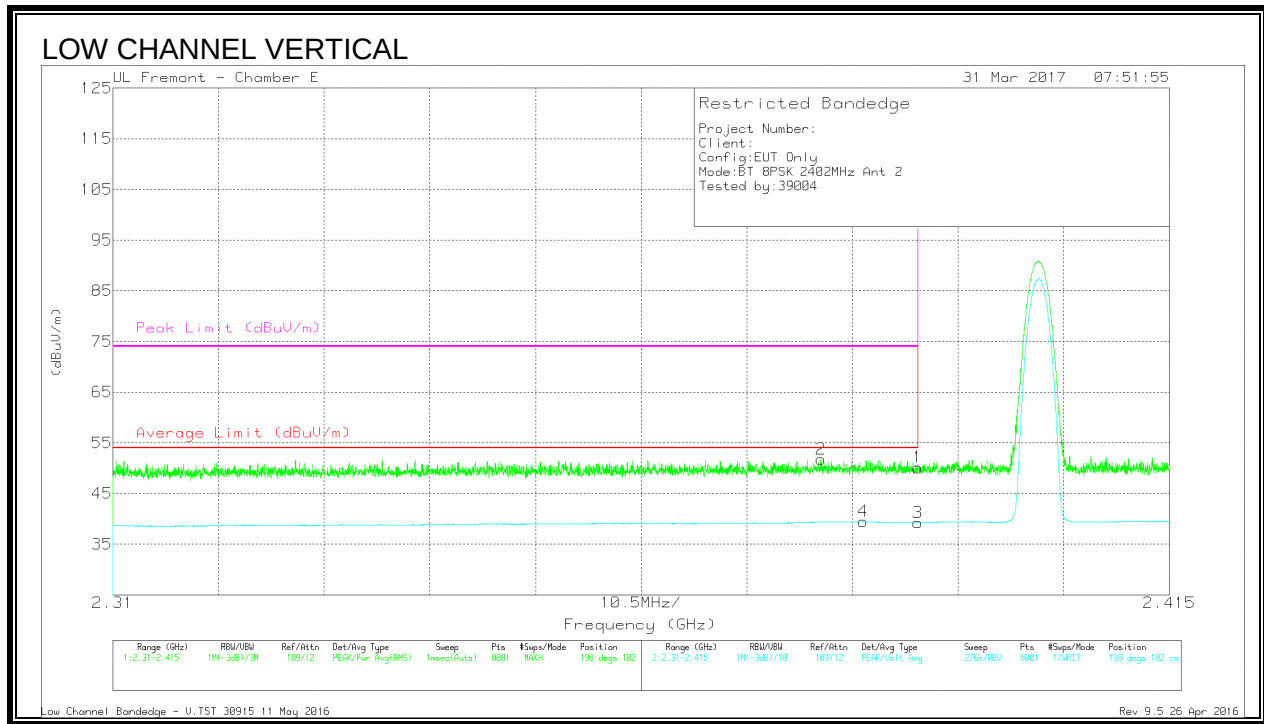
DATA

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	37.41	Pk	32	-19.7	49.71	-	-	74	-24.29	268	252	H
2	* 2.385	40.51	Pk	32	-19.5	53.01	-	-	74	-20.99	268	252	H
3	* 2.39	26.96	VA1T	32	-19.7	39.26	54	-14.74	-	-	268	252	H
4	* 2.384	26.95	VA1T	32	-19.5	39.45	54	-14.55	-	-	268	252	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



DATA

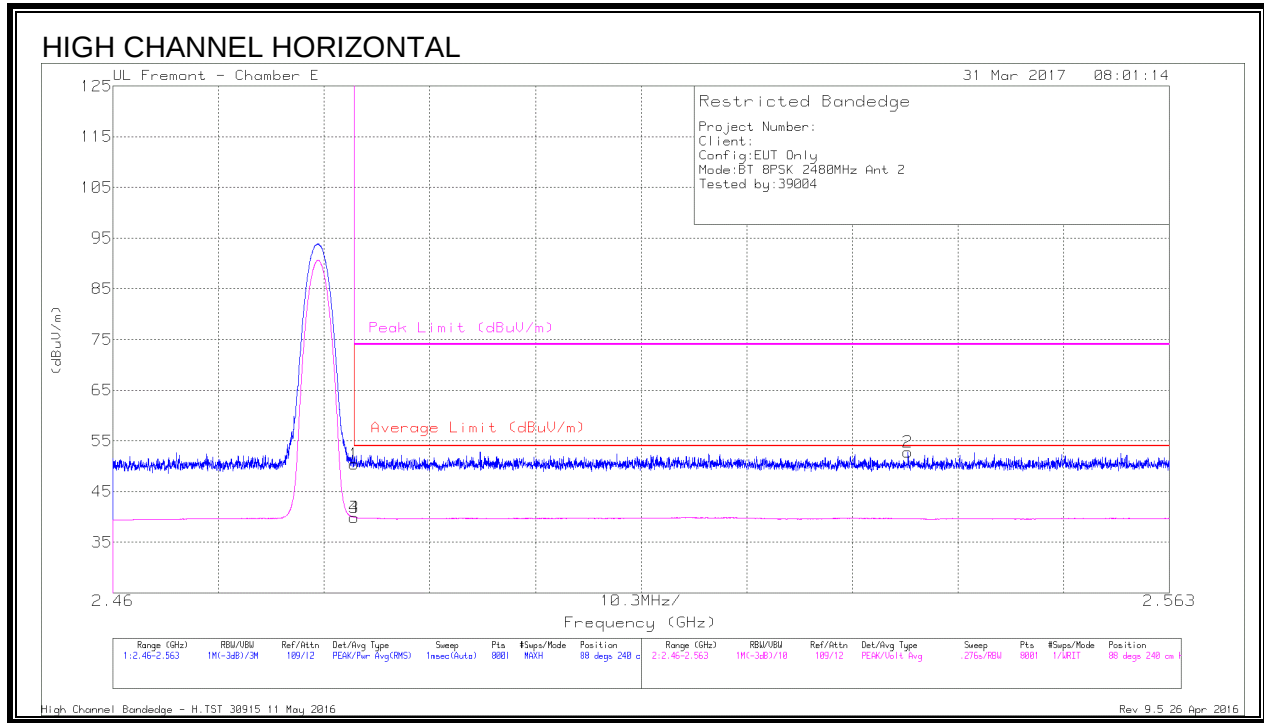
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.81	Pk	32	-19.7	50.11	-	-	74	-23.89	198	102	V
2	* 2.38	39.29	Pk	32	-19.5	51.79	-	-	74	-22.21	198	102	V
3	* 2.39	26.96	VA1T	32	-19.7	39.26	54	-14.74	-	-	198	102	V
4	* 2.385	26.94	VA1T	32	-19.5	39.44	54	-14.56	-	-	198	102	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

8.7.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



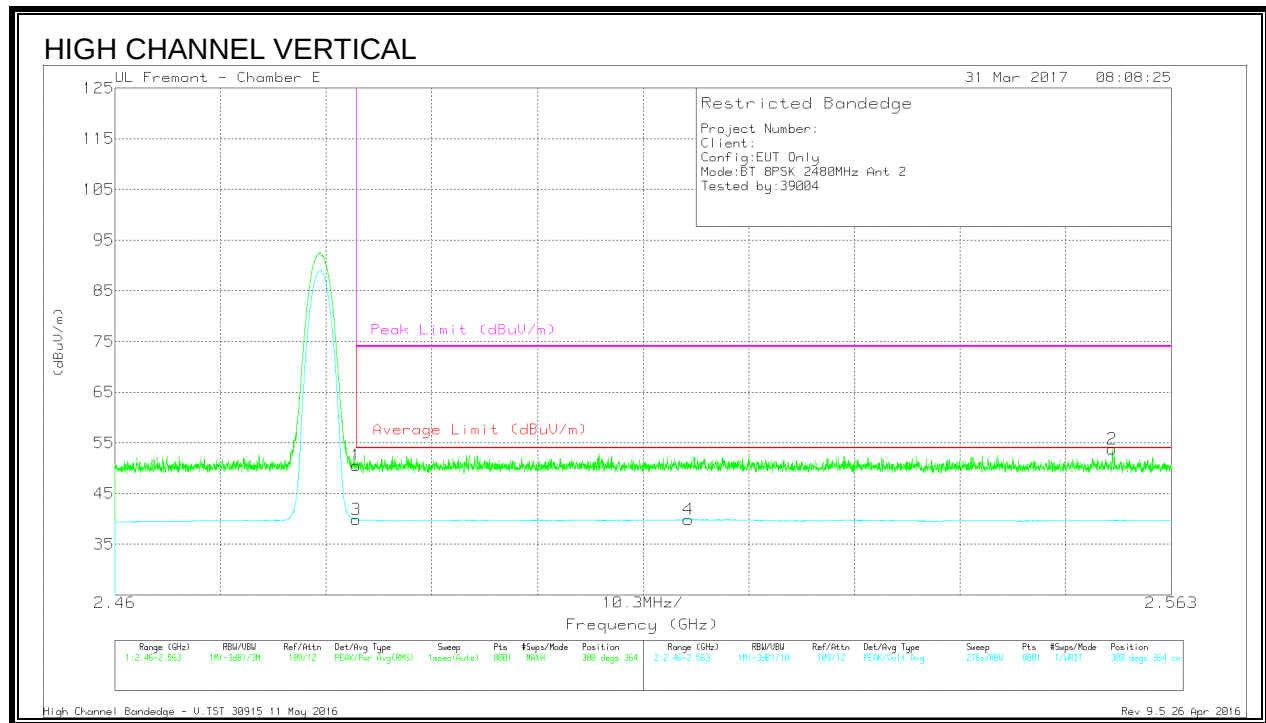
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Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Fitr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimat h (Degs)	Height (cm)	Polarit y
1	* 2.484	37.58	Pk	32.5	-19.7	50.38	-	-	74	-23.62	88	240	H
3	* 2.484	27.05	VA1T	32.5	-19.7	39.85	54	-14.15	-	-	88	240	H
4	* 2.484	27.08	VA1T	32.5	-19.7	39.88	54	-14.12	-	-	88	240	H
2	2.538	40.1	Pk	32.6	-19.9	52.8	-	-	74	-21.2	88	240	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



DATA

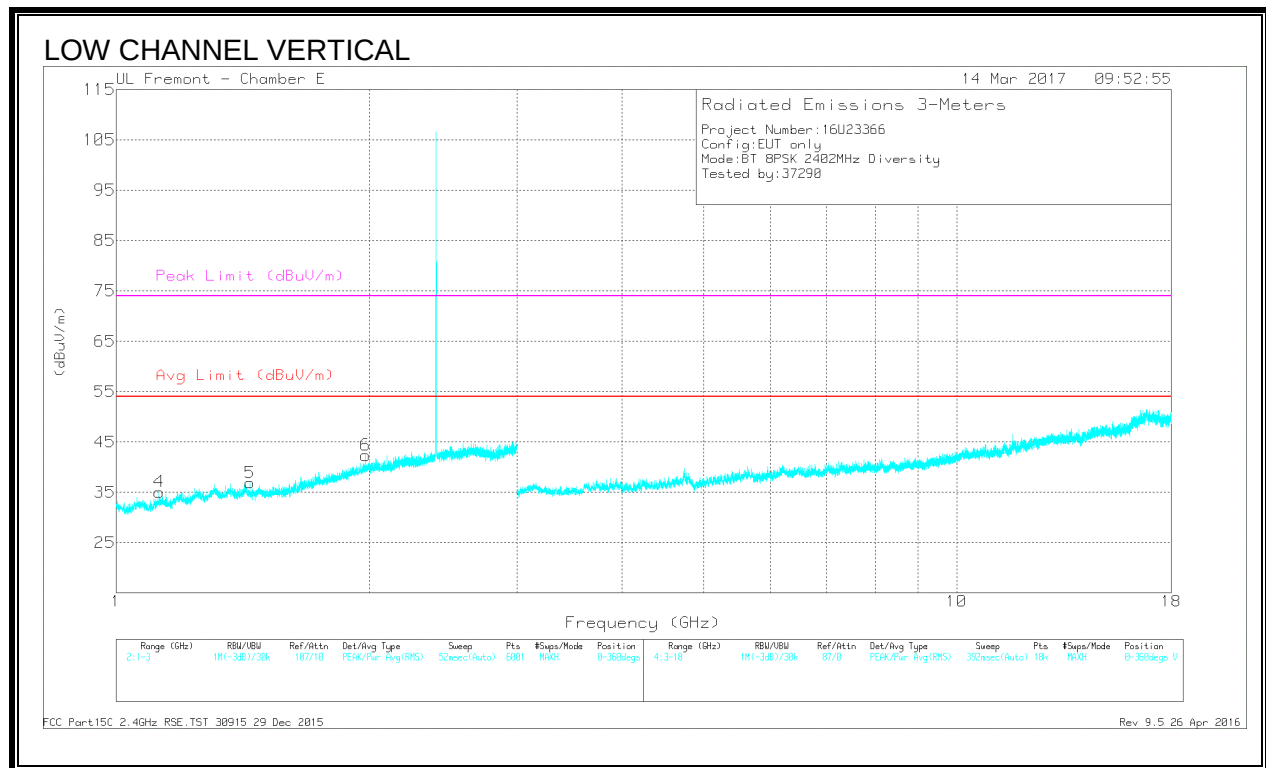
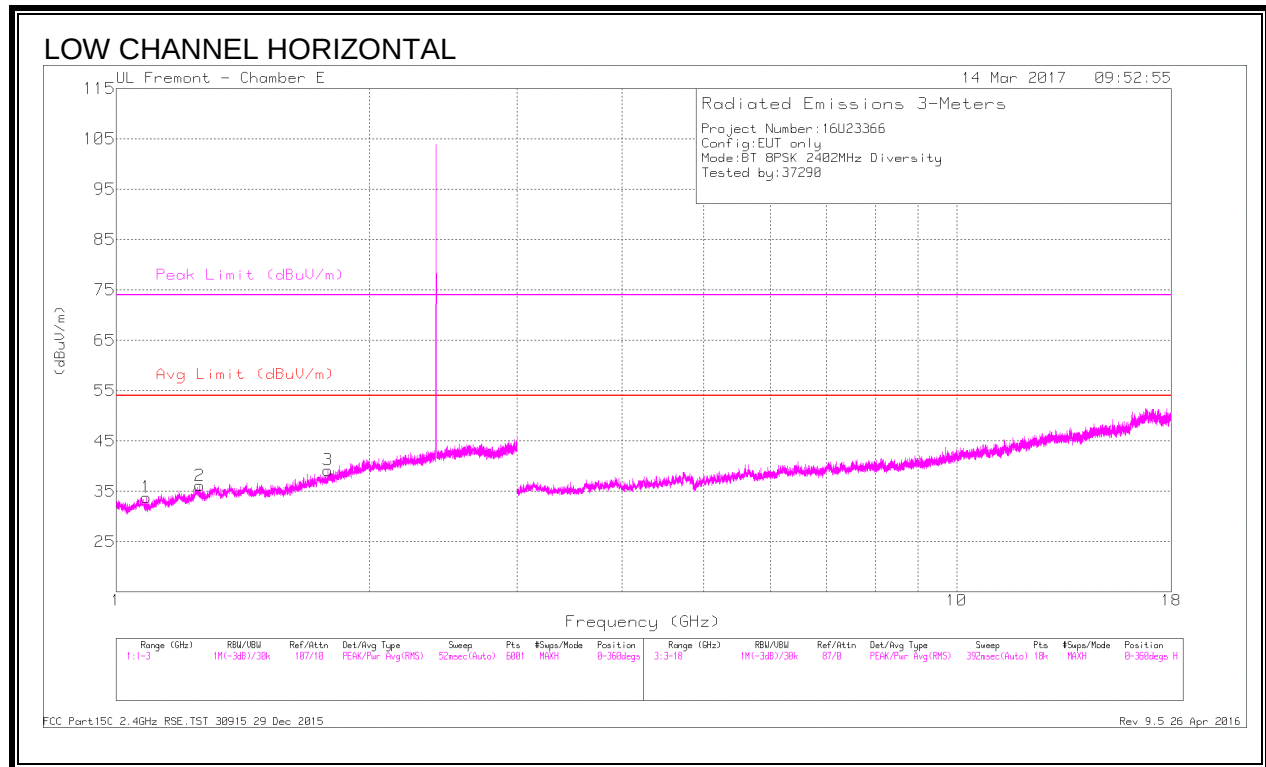
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.79	Pk	32.5	-19.7	50.59	-	-	74	-23.41	300	364	V
3	* 2.484	27.04	VA1T	32.5	-19.7	39.84	54	-14.16	-	-	300	364	V
4	2.516	26.95	VA1T	32.6	-19.7	39.85	54	-14.15	-	-	300	364	V
2	2.557	41.07	Pk	32.5	-19.8	53.77	-	-	74	-20.23	300	364	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

8.7.3. HARMONICS AND SPURIOUS EMISSIONS



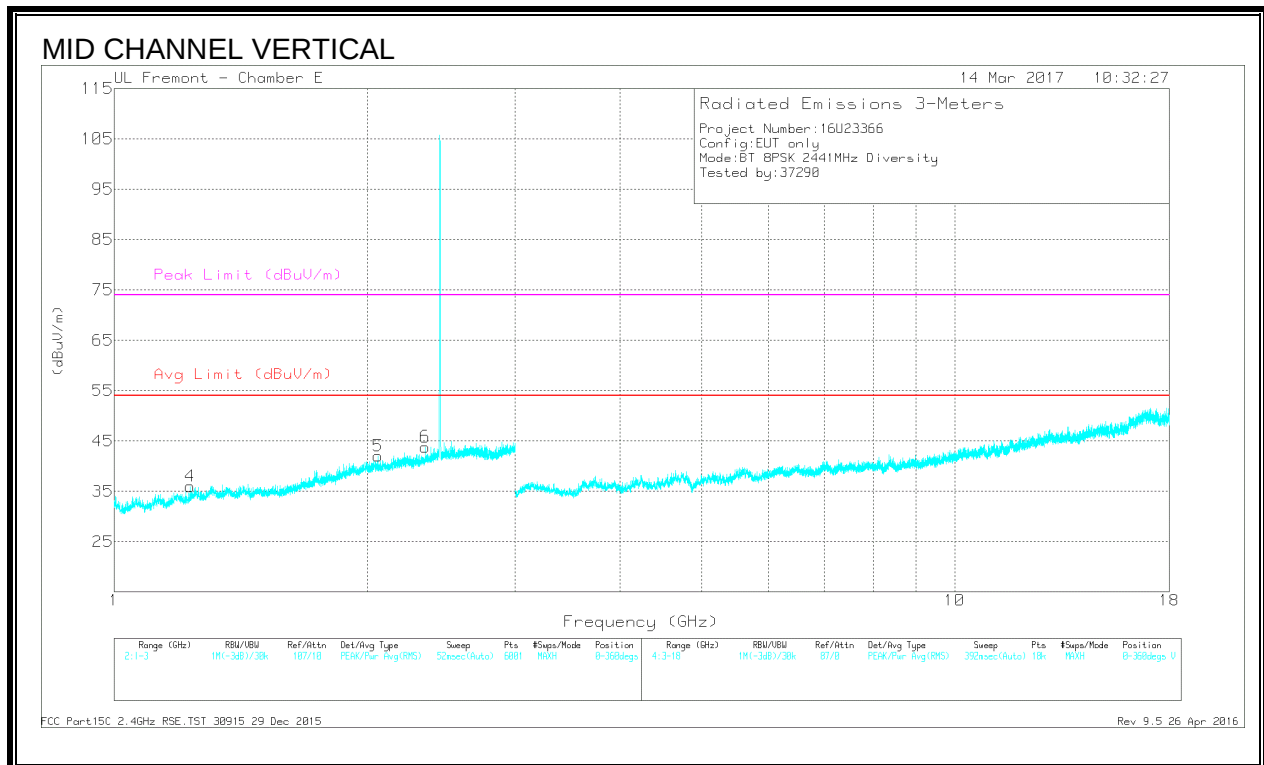
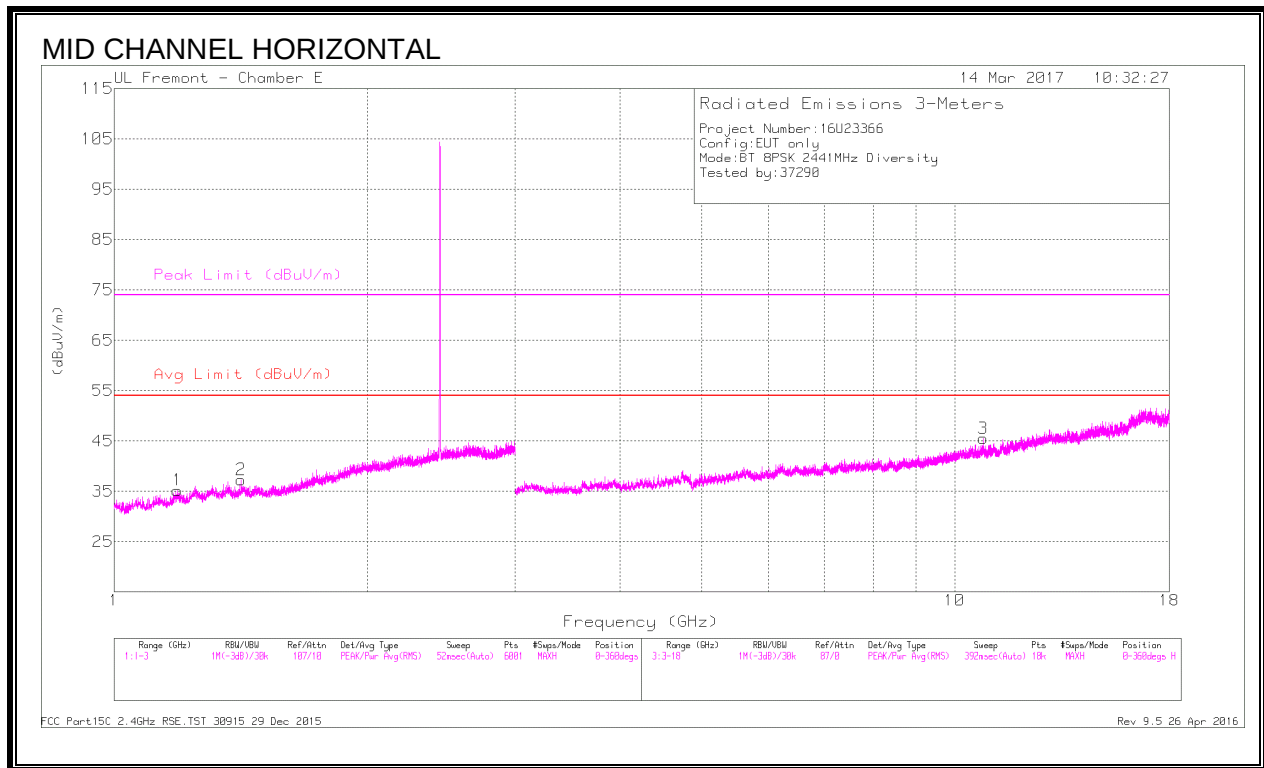
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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.085	35.28	PKFH	27.7	-23.2	39.78	-	-	74	-34.22	360	200	H
* 1.084	18.97	VA1T	27.7	-23.1	23.57	54	-30.43	-	-	360	200	H
* 1.258	35.91	PKFH	28.5	-22	42.41	-	-	74	-31.59	360	100	H
* 1.257	19.22	VA1T	28.5	-22	25.72	54	-28.28	-	-	360	100	H
* 1.123	35.51	PKFH	27.8	-22.8	40.51	-	-	74	-33.49	360	100	V
* 1.127	19.83	VA1T	27.8	-22.9	24.73	54	-29.27	-	-	360	100	V
* 1.446	35.42	PKFH	28.4	-21.1	42.72	-	-	74	-31.28	360	200	V
* 1.443	18.07	VA1T	28.4	-21.3	25.17	54	-28.83	-	-	360	200	V
1.788	37.13	PKFH	30.1	-20.4	46.83	-	-	-	-	360	100	H
1.98	35.89	PKFH	31.4	-19.9	47.39	-	-	-	-	360	200	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



DATA

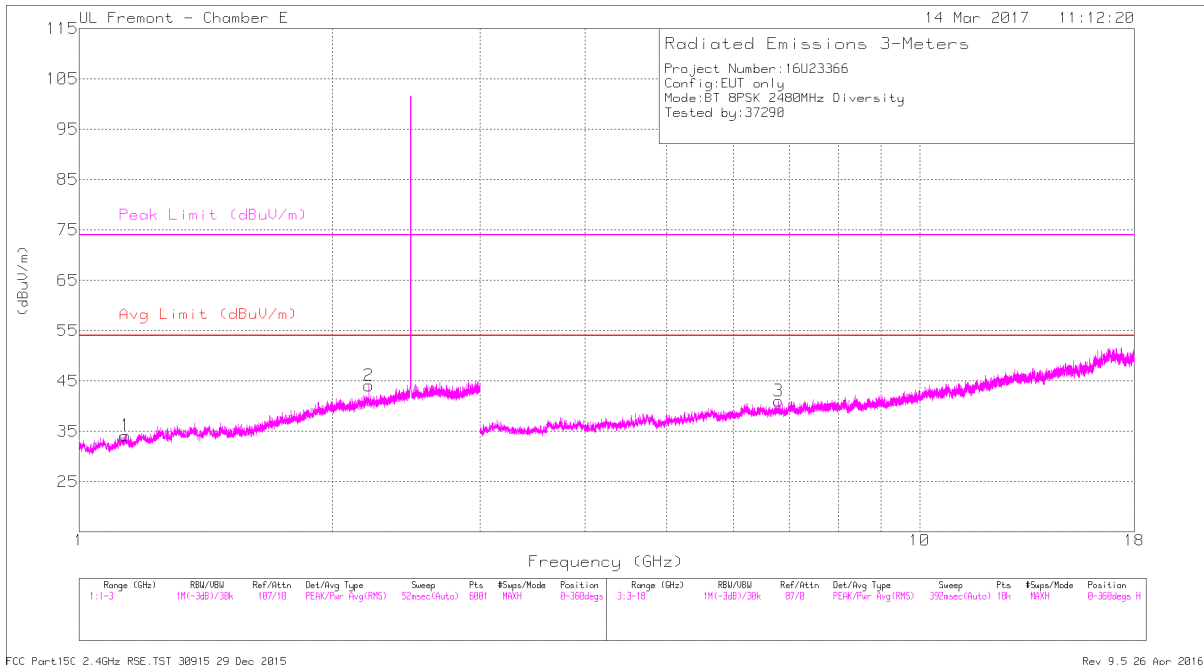
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.19	35.61	PKFH	28.1	-22.4	41.31	-	-	74	-32.69	360	200	H
* 1.189	19.79	VA1T	28.1	-22.4	25.49	54	-28.51	-	-	360	200	H
* 1.418	35.65	PKFH	28.5	-21.3	42.85	-	-	74	-31.15	360	200	H
* 1.418	18.91	VA1T	28.5	-21.3	26.11	54	-27.89	-	-	360	200	H
* 1.231	35.77	PKFH	28.4	-22	42.17	-	-	74	-31.83	360	200	V
* 1.233	18.53	VA1T	28.4	-22.1	24.83	54	-29.17	-	-	360	200	V
* 2.345	36.76	PKFH	31.9	-19.8	48.86	-	-	74	-25.14	360	200	V
* 2.344	18.8	VA1T	31.9	-19.8	30.9	54	-23.1	-	-	360	200	V
* 10.821	35.65	PKFH	37.6	-22.5	50.75	-	-	74	-23.25	360	200	H
* 10.817	22.82	VA1T	37.6	-22.6	37.82	54	-16.18	-	-	360	200	H
2.06	36.43	PKFH	31.4	-20.3	47.53	-	-	-	-	360	200	V

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

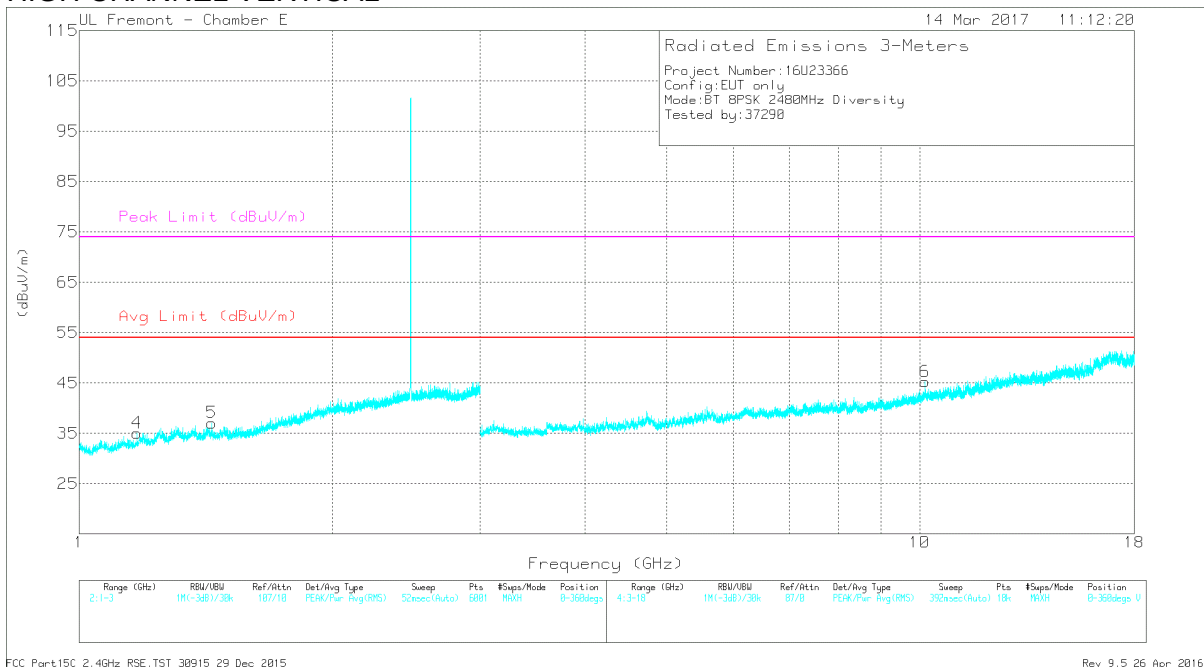
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.137	36.02	PKFH	27.9	-22.8	41.12	-	-	74	-32.88	360	200	H
* 1.134	19.79	VA1T	27.9	-22.8	24.89	54	-29.11	-	-	360	200	H
* 2.212	36.49	PKFH	31.6	-19.6	48.49	-	-	74	-25.51	360	200	H
* 2.212	18.57	VA1T	31.6	-19.6	30.57	54	-23.43	-	-	360	200	H
* 1.171	35.37	PKFH	28	-22.4	40.97	-	-	74	-33.03	360	200	V
* 1.172	18.74	VA1T	28	-22.5	24.24	54	-29.76	-	-	360	200	V
* 1.438	35.72	PKFH	28.4	-21.2	42.92	-	-	74	-31.08	360	101	V
* 1.436	18.66	VA1T	28.4	-21.2	25.86	54	-28.14	-	-	360	101	V
6.792	37.47	PKFH	35.6	-27.3	45.77	-	-	-	-	360	101	H
10.142	34.74	PKFH	37.3	-22.8	49.24	-	-	-	-	360	200	V

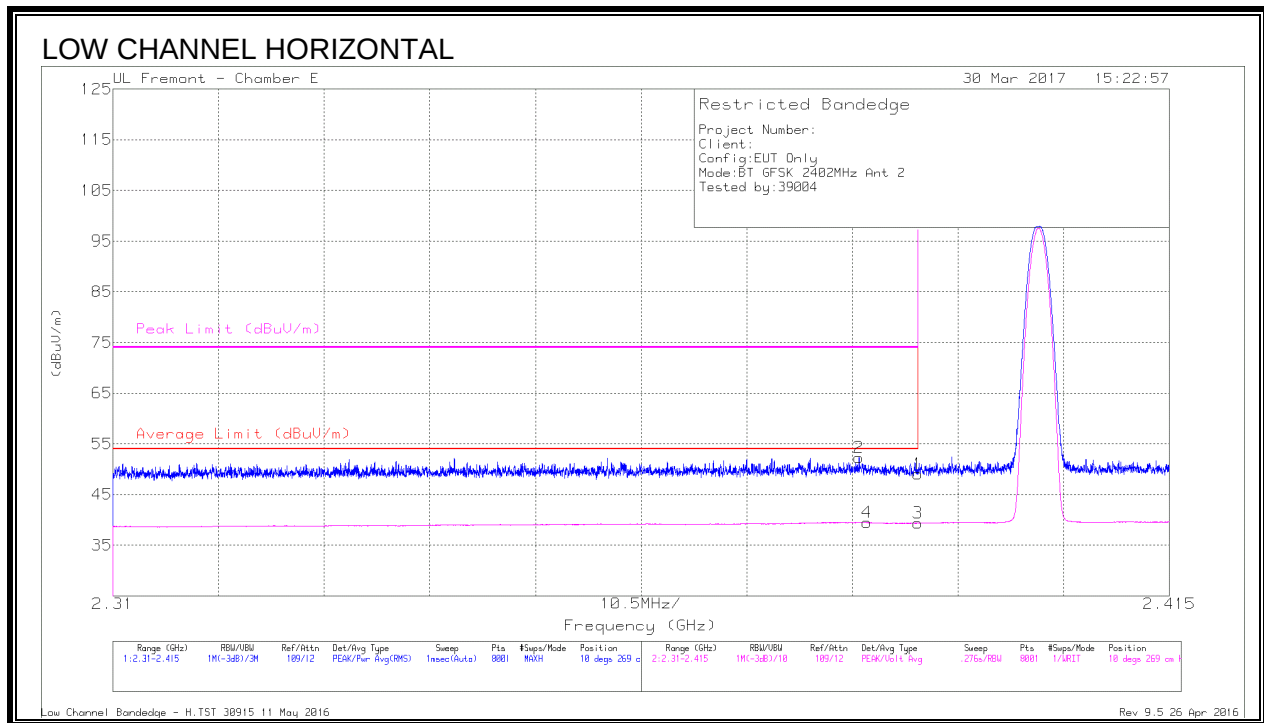
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

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

8.8. LAT 3, Diversity PLOW BASIC DATA RATE GFSK MODULATION

8.8.1. RESTRICTED BANDEDGE (LOW CHANNEL)



DATA

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)	Polarization
1	* 2.39	36.75	Pk	32	-19.7	49.05	-	-	74	-24.95	10	269	H
2	* 2.384	39.77	Pk	32	-19.5	52.27	-	-	74	-21.73	10	269	H
3	* 2.39	27.03	VA1T	32	-19.7	39.33	54	-14.67	-	-	10	269	H
4	* 2.385	27	VA1T	32	-19.5	39.5	54	-14.5	-	-	10	269	H

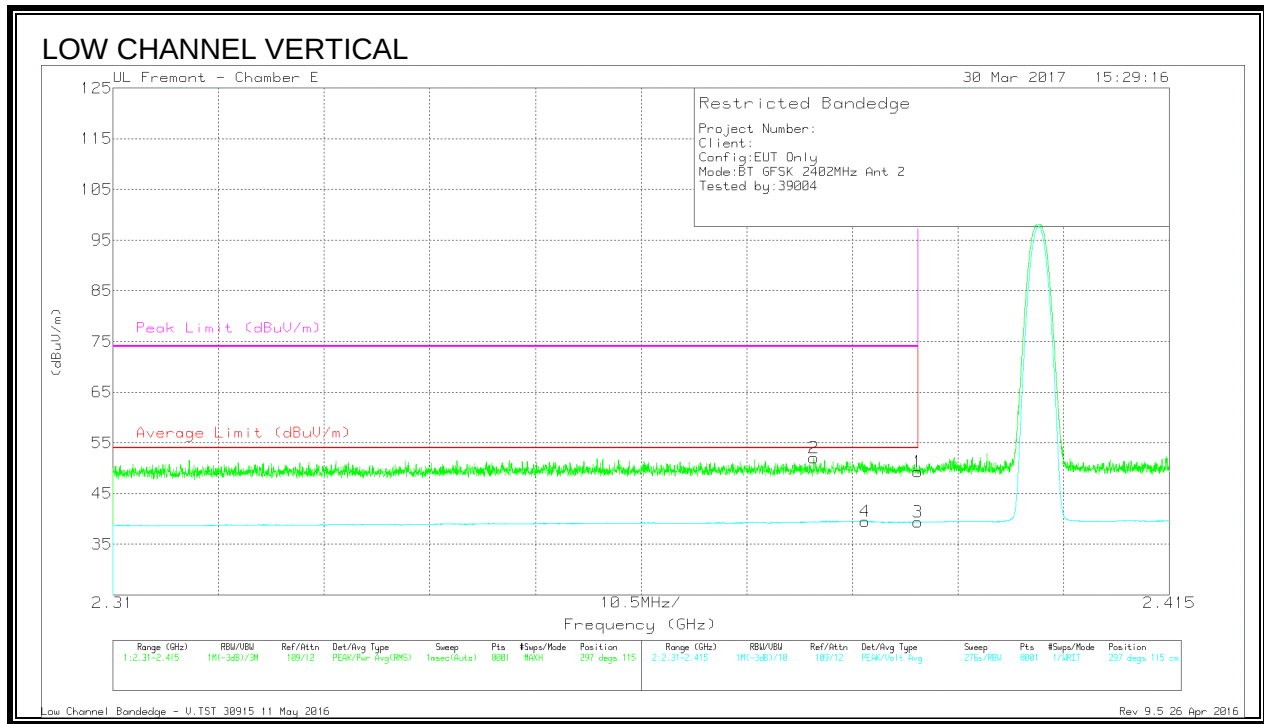
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

Low Channel Bandedge - H.TST.30915 11 May 2016

Rev 9.5 26 Apr 2016



DATA

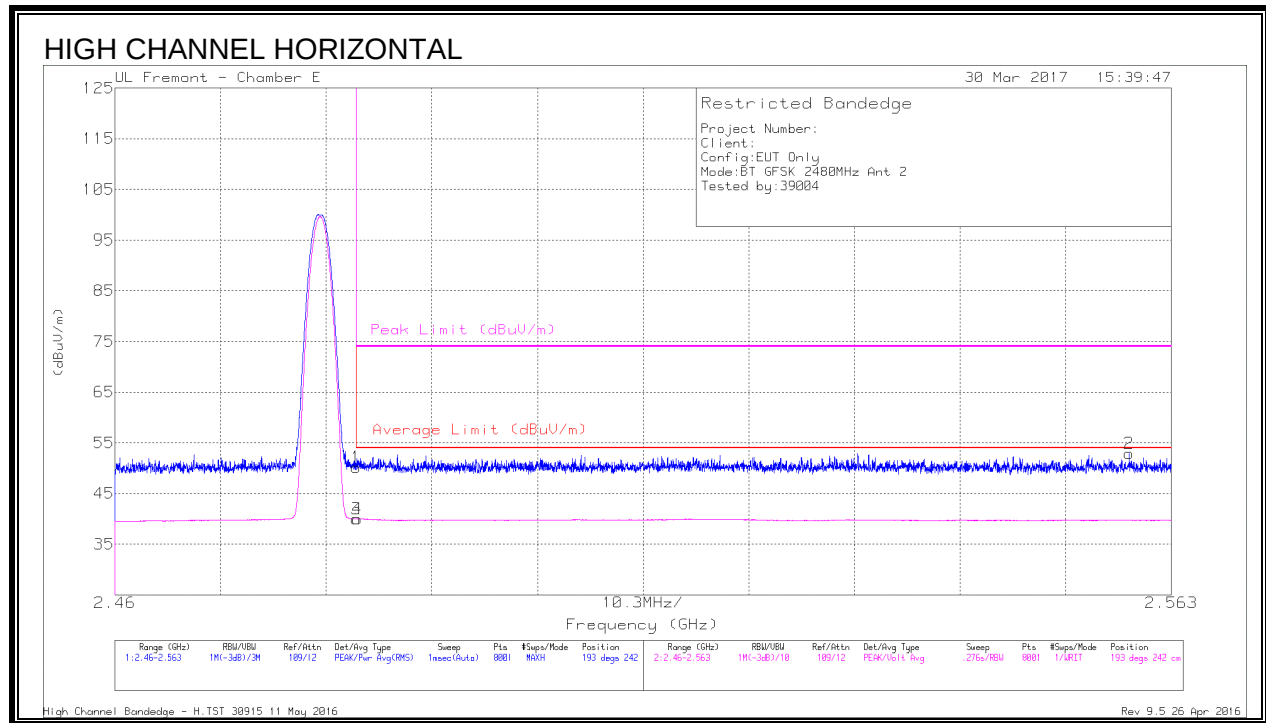
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.01	Pk	32	-19.7	49.31	-	-	74	-24.69	297	115	V
2	* 2.38	39.65	Pk	32	-19.6	52.05	-	-	74	-21.95	297	115	V
3	* 2.39	27.05	VA1T	32	-19.7	39.35	54	-14.65	-	-	297	115	V
4	* 2.385	27.02	VA1T	32	-19.5	39.52	54	-14.48	-	-	297	115	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

8.8.2. AUTHORIZED BANDEDGE (HIGH CHANNEL)



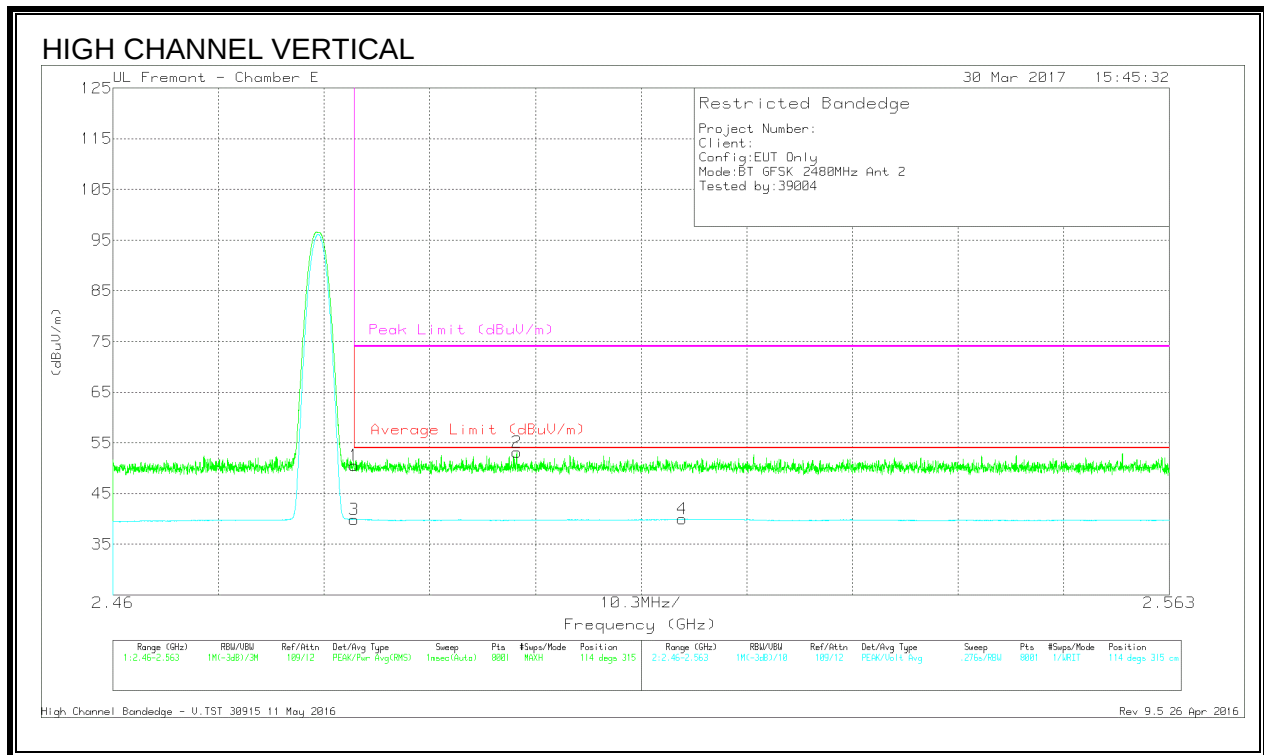
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	37.38	Pk	32.5	-19.7	50.18	-	-	74	-23.82	193	242	H
3	* 2.484	27.23	VA1T	32.5	-19.7	40.03	54	-13.97	-	-	193	242	H
4	* 2.484	27.24	VA1T	32.5	-19.7	40.04	54	-13.96	-	-	193	242	H
2	2.559	40.18	Pk	32.5	-19.8	52.88	-	-	74	-21.12	193	242	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



DATA

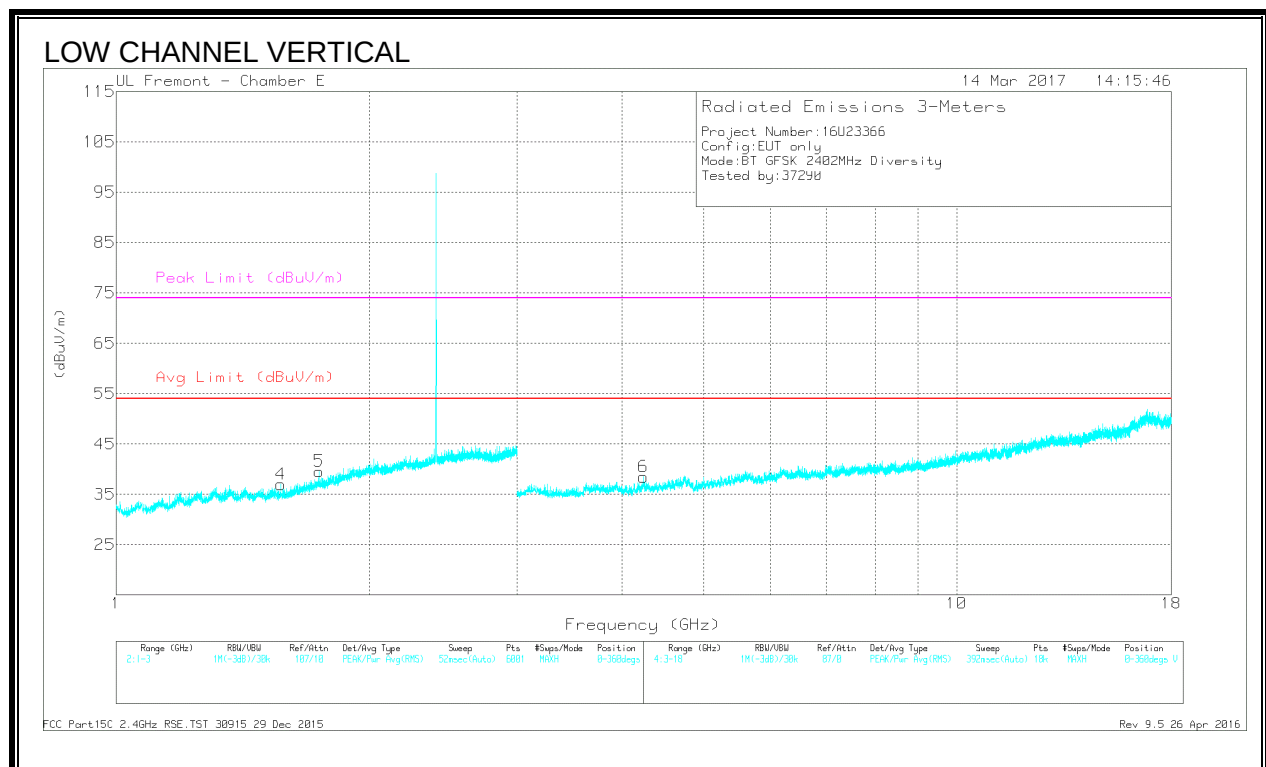
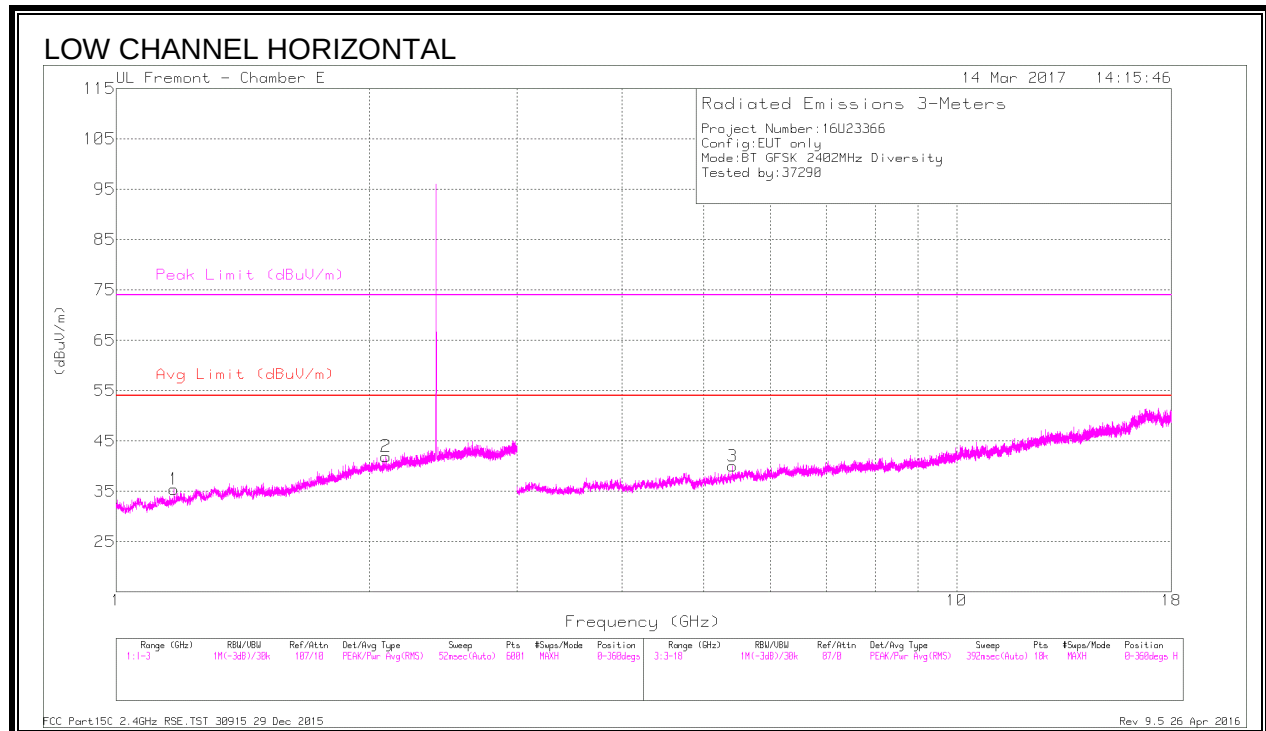
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.72	Pk	32.5	-19.7	50.52	-	-	74	-23.48	114	315	V
2	* 2.499	40.47	Pk	32.6	-19.9	53.17	-	-	74	-20.83	114	315	V
3	* 2.484	27.11	VA1T	32.5	-19.7	39.91	54	-14.09	-	-	114	315	V
4	2.516	27.03	VA1T	32.6	-19.7	39.93	54	-14.07	-	-	114	315	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

8.8.3. HARMONICS AND SPURIOUS EMISSIONS



DATA

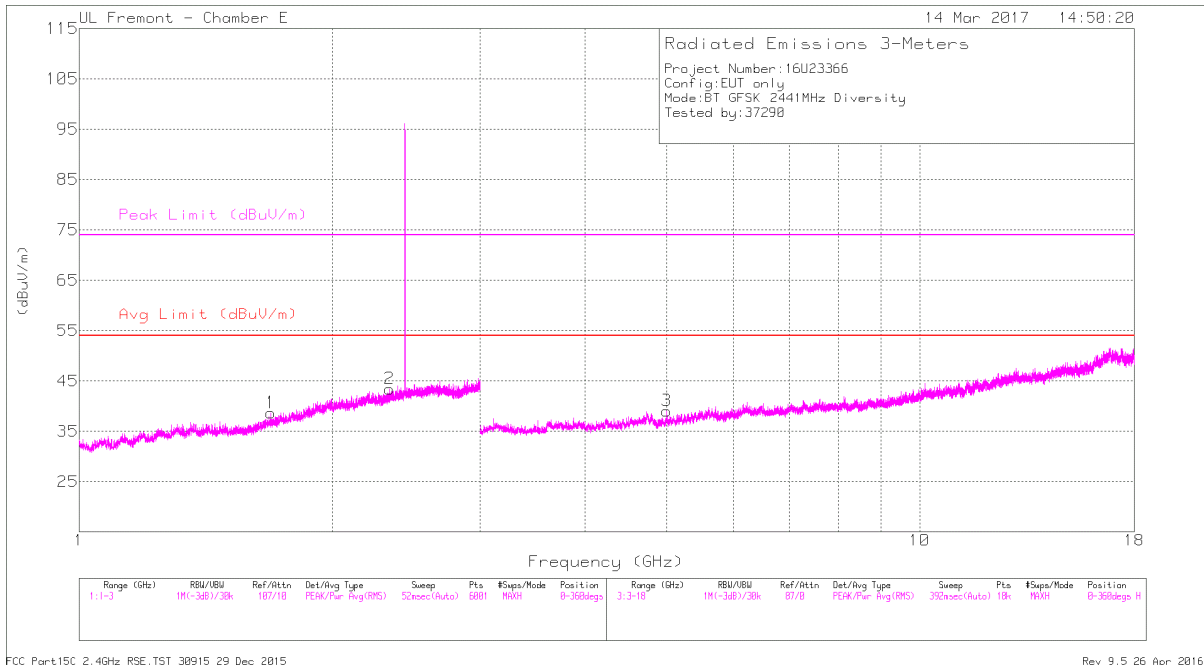
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.172	35.62	PKFH	28	-22.5	41.12	-	-	74	-32.88	360	200	H
* 1.174	18.82	VA1T	28.1	-22.6	24.32	54	-29.68	-	-	360	200	H
* 1.569	35.36	PKFH	28.1	-21	42.46	-	-	74	-31.54	360	200	V
* 1.572	18.25	VA1T	28.1	-21.2	25.15	54	-28.85	-	-	360	200	V
* 5.412	39.86	PKFH	35	-29.4	45.46	-	-	74	-28.54	360	200	H
* 5.411	27.76	VA1T	35	-29.3	33.46	54	-20.54	-	-	360	200	H
* 4.238	38.9	PKFH	33.5	-28.7	43.7	-	-	74	-30.3	360	101	V
* 4.238	27.41	VA1T	33.5	-28.7	32.21	54	-21.79	-	-	360	101	V
1.743	35.69	PKFH	29.7	-20.4	44.99	-	-	-	-	360	100	V
2.094	36.15	PKFH	31.3	-20.2	47.25	-	-	-	-	360	101	H

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

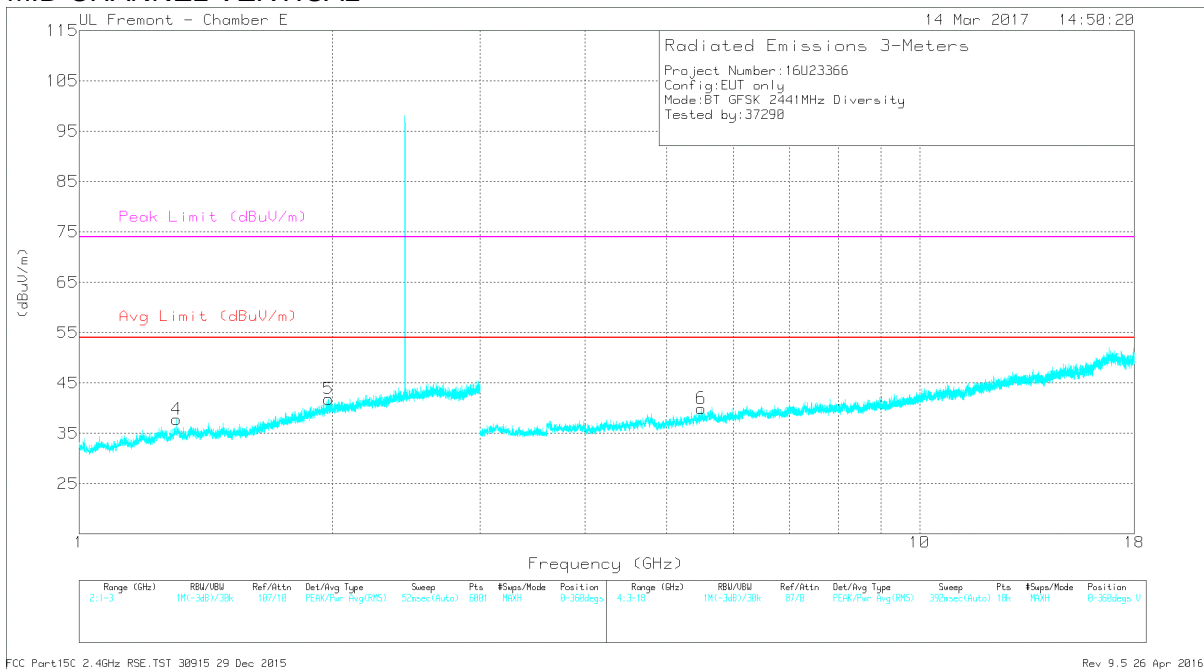
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



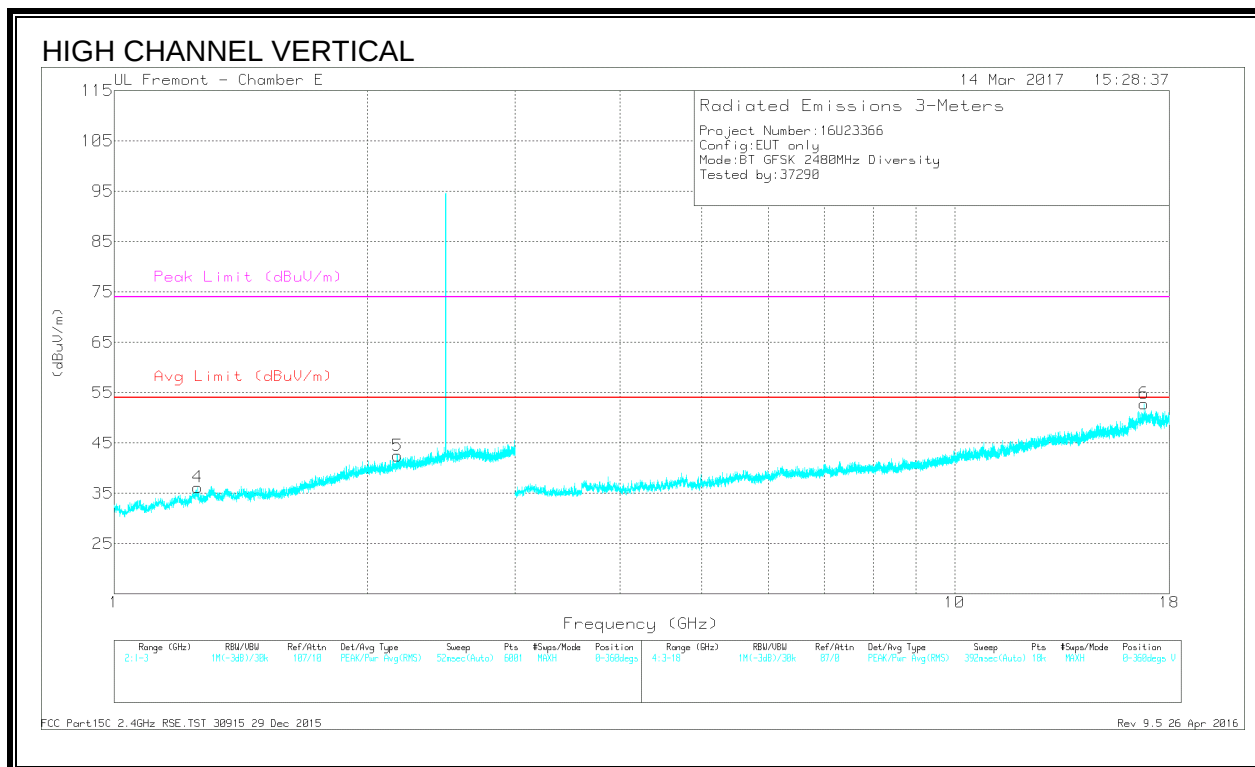
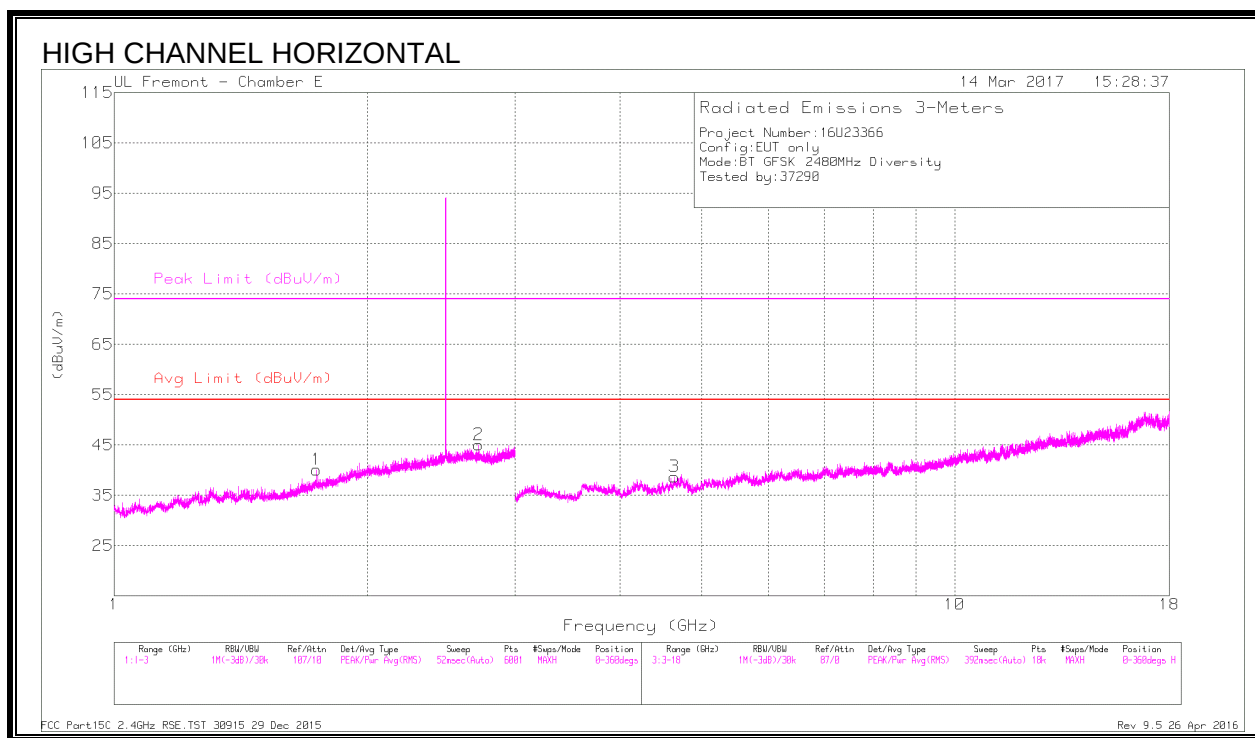
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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.691	35.48	PKFH	29.1	-20.6	43.98	-	-	74	-30.02	360	100	H
* 1.689	18.39	VA1T	29.1	-20.6	26.89	54	-27.11	-	-	360	100	H
* 2.342	36.53	PKFH	31.8	-19.8	48.53	-	-	74	-25.47	360	200	H
* 2.344	18.79	VA1T	31.9	-19.8	30.89	54	-23.11	-	-	360	200	H
* 1.305	35.59	PKFH	28.8	-21.8	42.59	-	-	74	-31.41	360	101	V
* 1.306	19.48	VA1T	28.8	-21.8	26.48	54	-27.52	-	-	360	101	V
* 4.998	40.82	PKFH	34.3	-30	45.12	-	-	74	-28.88	360	200	H
* 4.998	28.27	VA1T	34.3	-30	32.57	54	-21.43	-	-	360	200	H
1.982	36.18	PKFH	31.4	-20	47.58	-	-	-	-	360	101	V
5.497	39.6	PKFH	35.5	-30	45.1	-	-	-	-	360	200	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



DATA

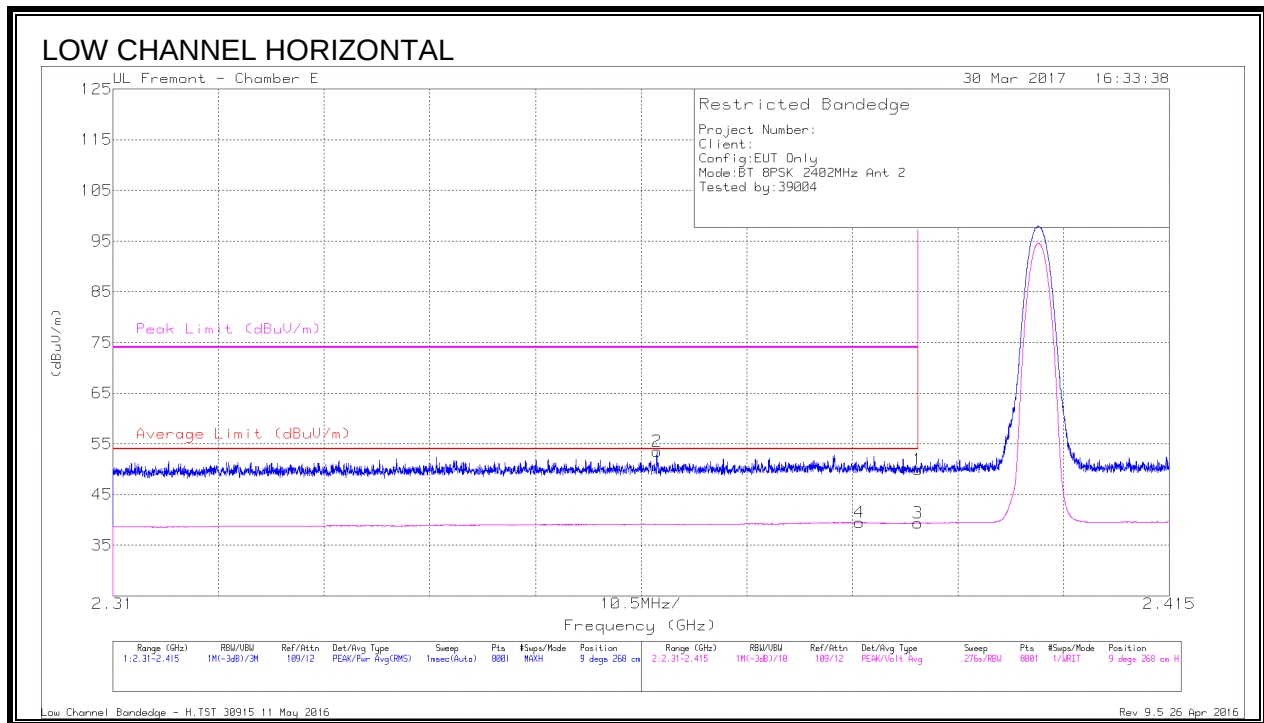
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.713	38.3	PKFH	32.3	-19.3	51.3	-	-	74	-22.7	360	200	H
* 2.715	19.06	VA1T	32.3	-19.3	32.06	54	-21.94	-	-	360	200	H
* 1.259	35.56	PKFH	28.5	-22	42.06	-	-	74	-31.94	360	200	V
* 1.257	19.29	VA1T	28.5	-22	25.79	54	-28.21	-	-	360	200	V
* 4.641	40.97	PKFH	34.2	-30.5	44.67	-	-	74	-29.33	360	101	H
* 4.64	28.91	VA1T	34.2	-30.5	32.61	54	-21.39	-	-	360	101	H
1.741	36.81	PKFH	29.7	-20.4	46.11	-	-	-	-	360	200	H
2.174	36.08	PKFH	31.5	-19.7	47.88	-	-	-	-	360	200	V
16.807	36.25	PKFH	42.6	-21.2	57.65	-	-	-	-	360	200	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

8.9. LAT 3, Diversity PLOW ENHANCED DATA RATE 8PSK MODULATION



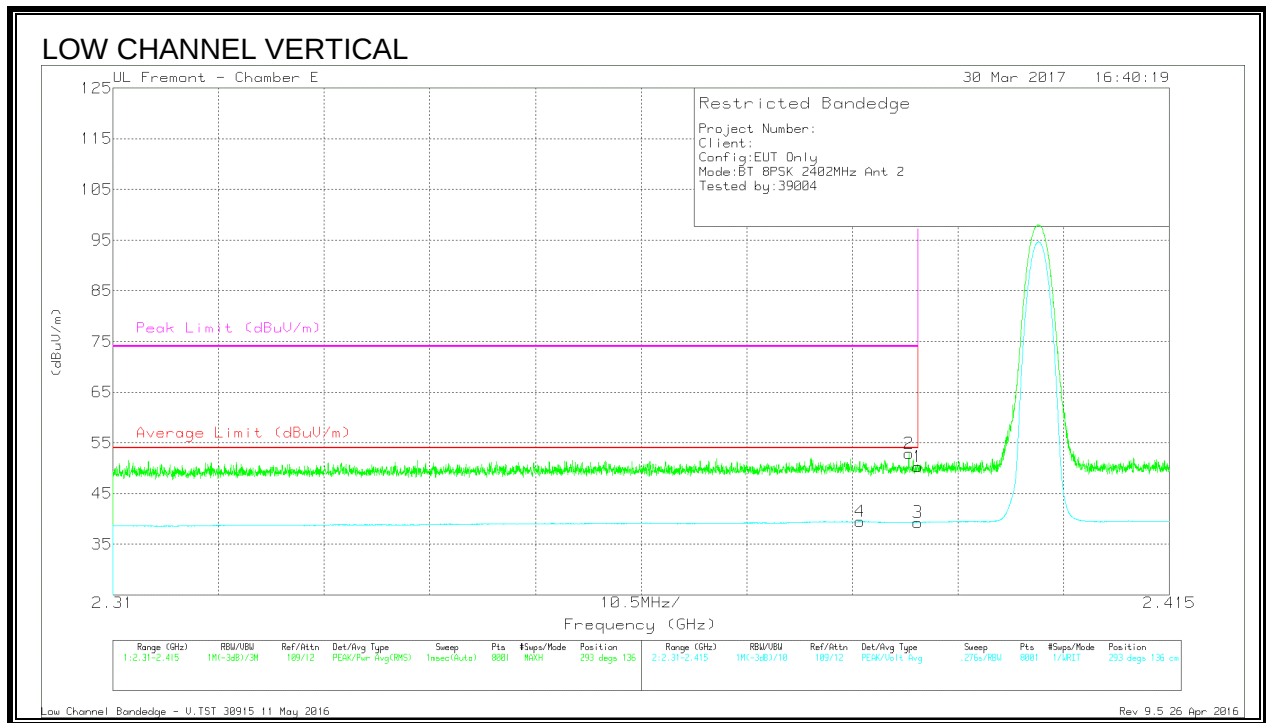
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.62	Pk	32	-19.7	49.92	-	-	74	-24.08	9	268	H
2	* 2.364	41.34	Pk	31.9	-19.7	53.54	-	-	74	-20.46	9	268	H
3	* 2.39	27.05	VA1T	32	-19.7	39.35	54	-14.65	-	-	9	268	H
4	* 2.384	26.98	VA1T	32	-19.5	39.48	54	-14.52	-	-	9	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



DATA

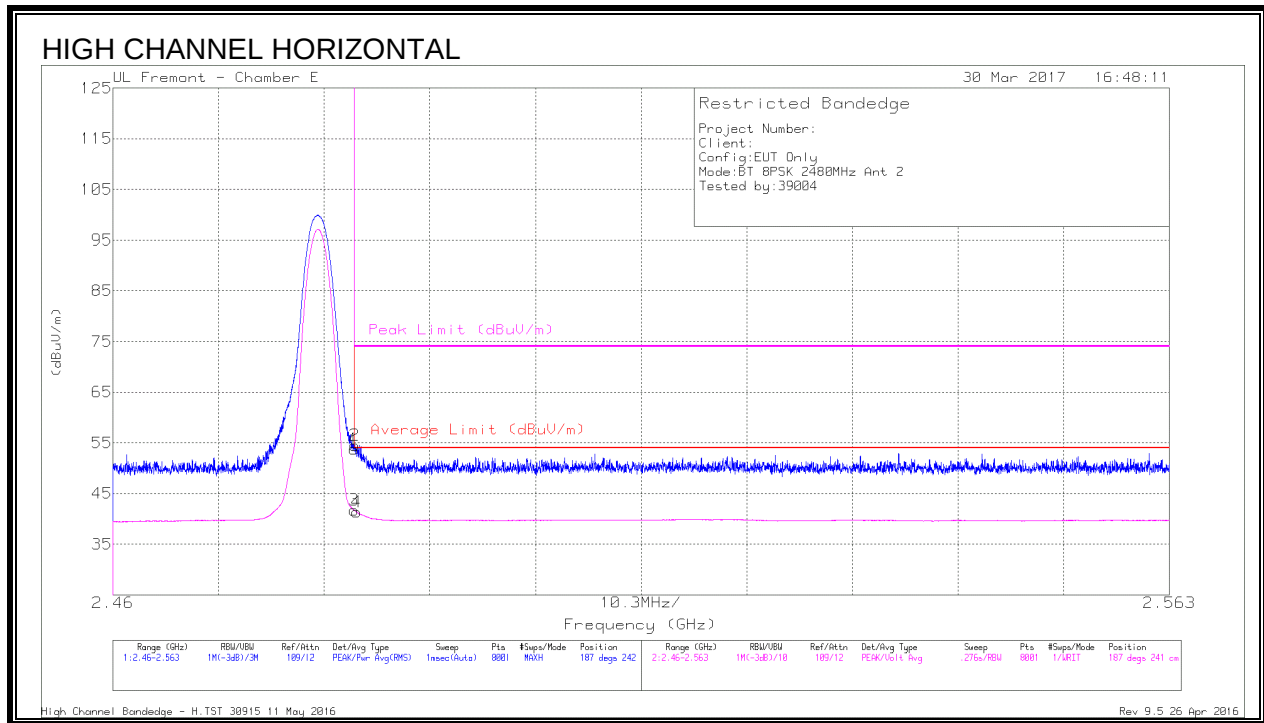
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.01	Pk	32	-19.7	50.31	-	-	74	-23.69	293	136	V
2	* 2.389	40.56	Pk	32	-19.7	52.86	-	-	74	-21.14	293	136	V
3	* 2.39	27	VA1T	32	-19.7	39.3	54	-14.7	-	-	293	136	V
4	* 2.384	26.97	VA1T	32	-19.5	39.47	54	-14.53	-	-	293	136	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

8.9.1. AUTHORIZED BANDEDGE (HIGH CHANNEL)



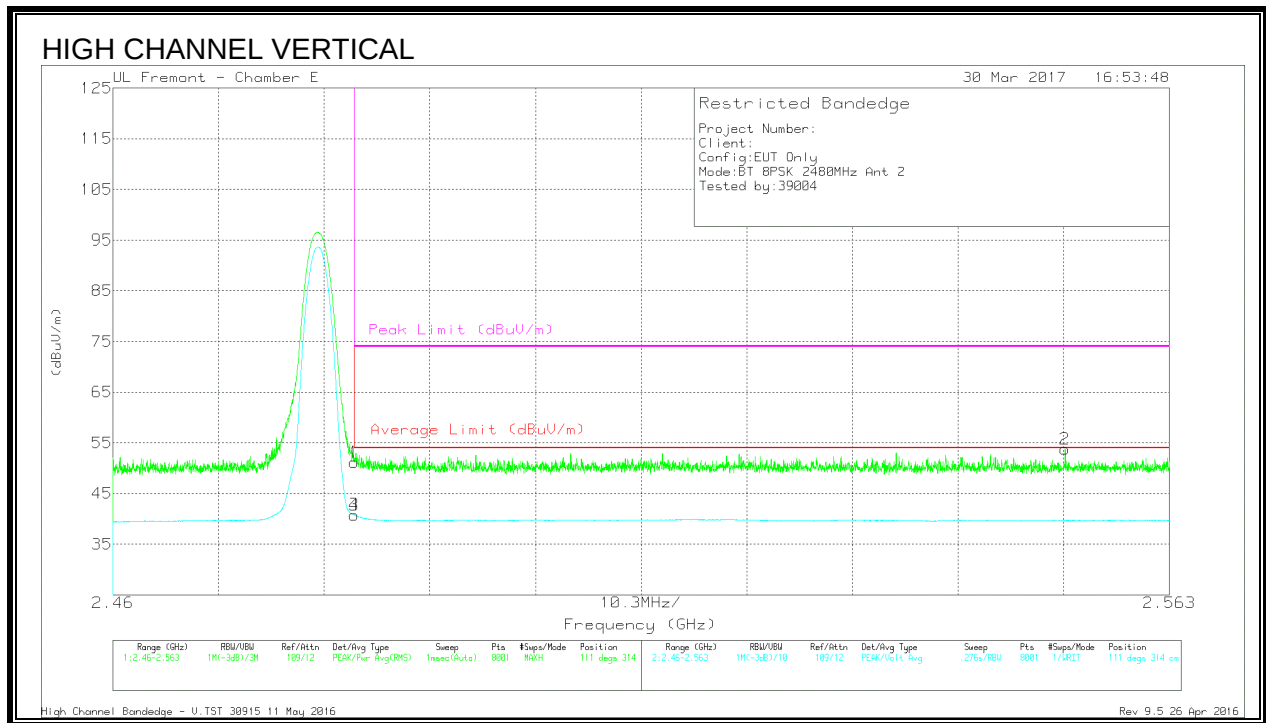
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
1	* 2.484	41.01	Pk	32.5	-19.7	53.81	-	-	74	-20.19	187	242	H
2	* 2.484	41.72	Pk	32.5	-19.7	54.52	-	-	74	-19.48	187	242	H
3	* 2.484	28.94	VA1T	32.5	-19.7	41.74	54	-12.26	-	-	187	241	H
4	* 2.484	28.58	VA1T	32.5	-19.7	41.38	54	-12.62	-	-	187	241	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



DATA

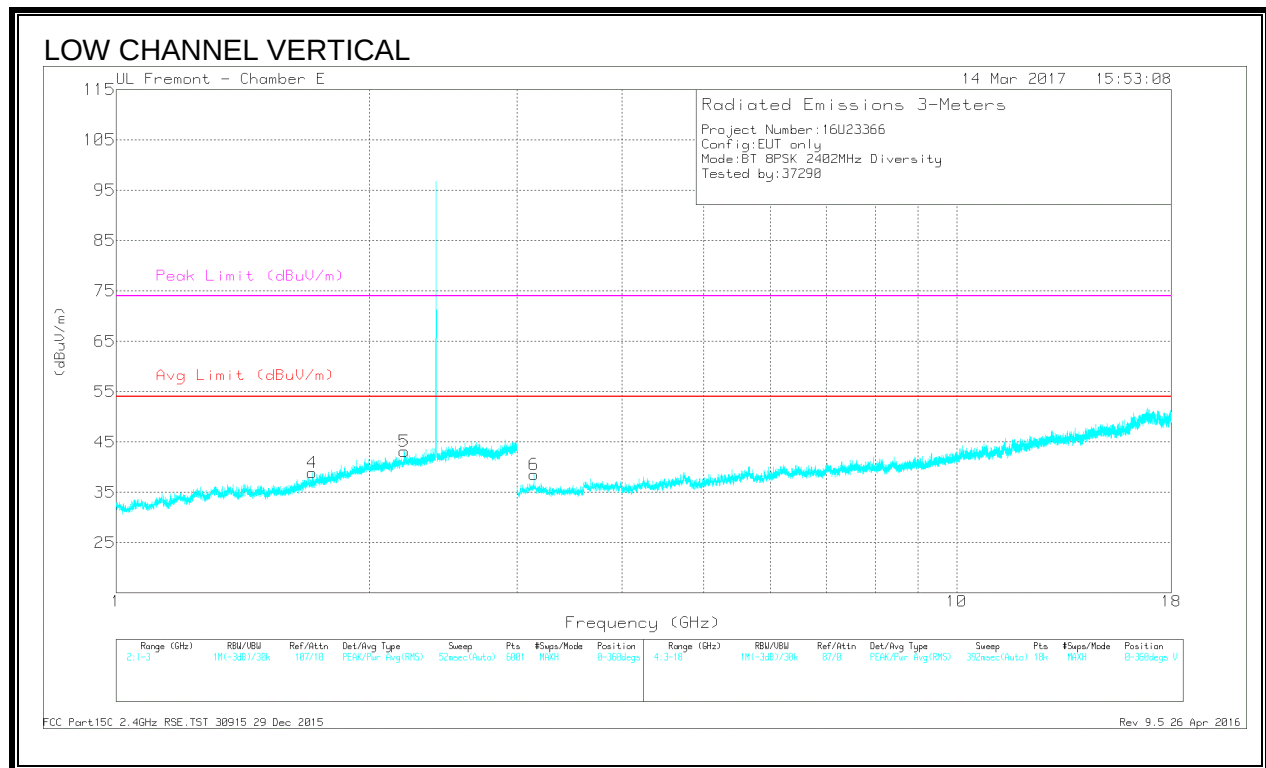
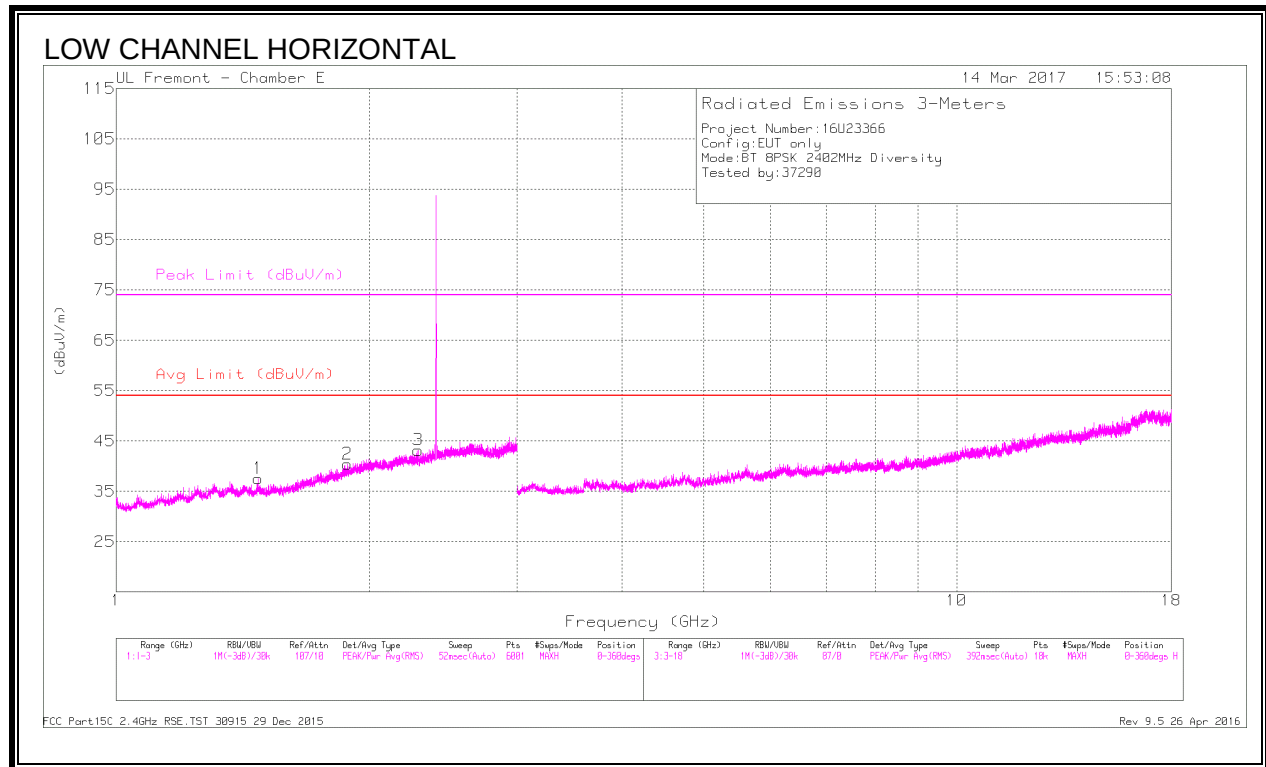
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.38	Pk	32.5	-19.7	51.18	-	-	74	-22.82	111	314	V
3	* 2.484	27.99	VA1T	32.5	-19.7	40.79	54	-13.21	-	-	111	314	V
4	* 2.484	27.98	VA1T	32.5	-19.7	40.78	54	-13.22	-	-	111	314	V
2	2.553	41.06	Pk	32.5	-19.8	53.76	-	-	74	-20.24	111	314	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

8.9.2. HARMONICS AND SPURIOUS EMISSIONS



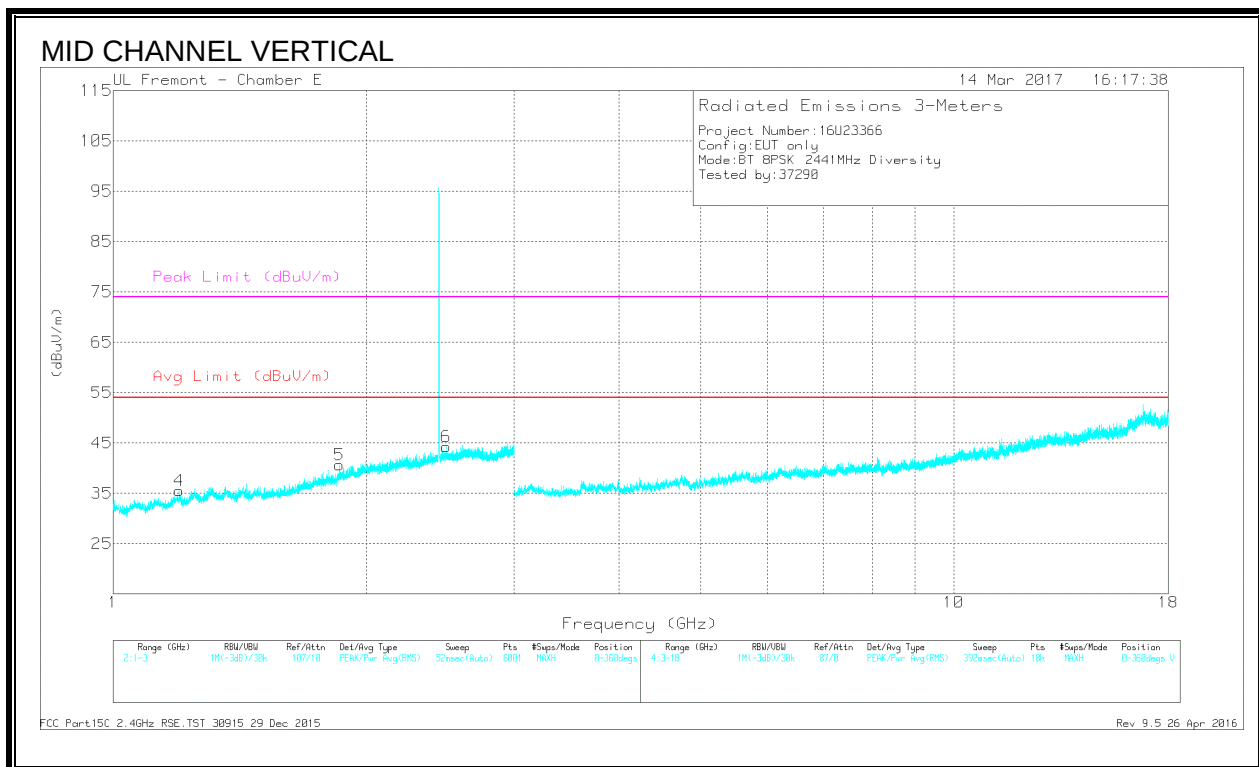
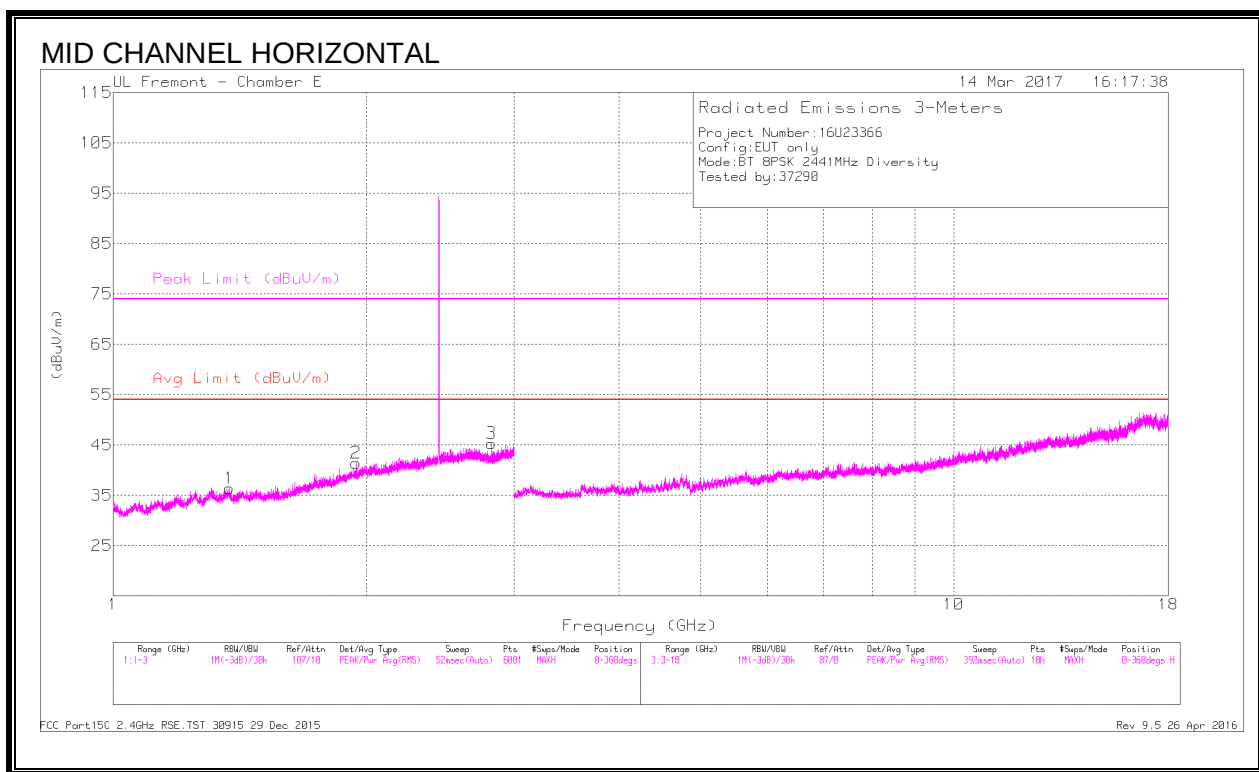
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Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.474	35.54	PKFH	28.2	-21	42.74	-	-	74	-31.26	360	100	H
* 1.478	18.61	VA1T	28.2	-20.9	25.91	54	-28.09	-	-	360	100	H
* 2.286	36.24	PKFH	31.7	-19.7	48.24	-	-	74	-25.76	360	101	H
* 2.288	18.64	VA1T	31.7	-19.7	30.64	54	-23.36	-	-	360	101	H
* 2.217	37.34	PKFH	31.6	-19.6	49.34	-	-	74	-24.66	360	200	V
* 2.298	18.72	VA1T	31.7	-19.8	30.62	54	-23.38	-	-	360	200	V
1.711	35.61	PKFH	29.4	-20.6	44.41	-	-	-	-	360	200	V
1.887	35.54	PKFH	30.8	-20.4	45.94	-	-	-	-	360	200	H
3.144	39.63	PKFH	33.2	-29.9	42.93	-	-	-	-	360	200	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



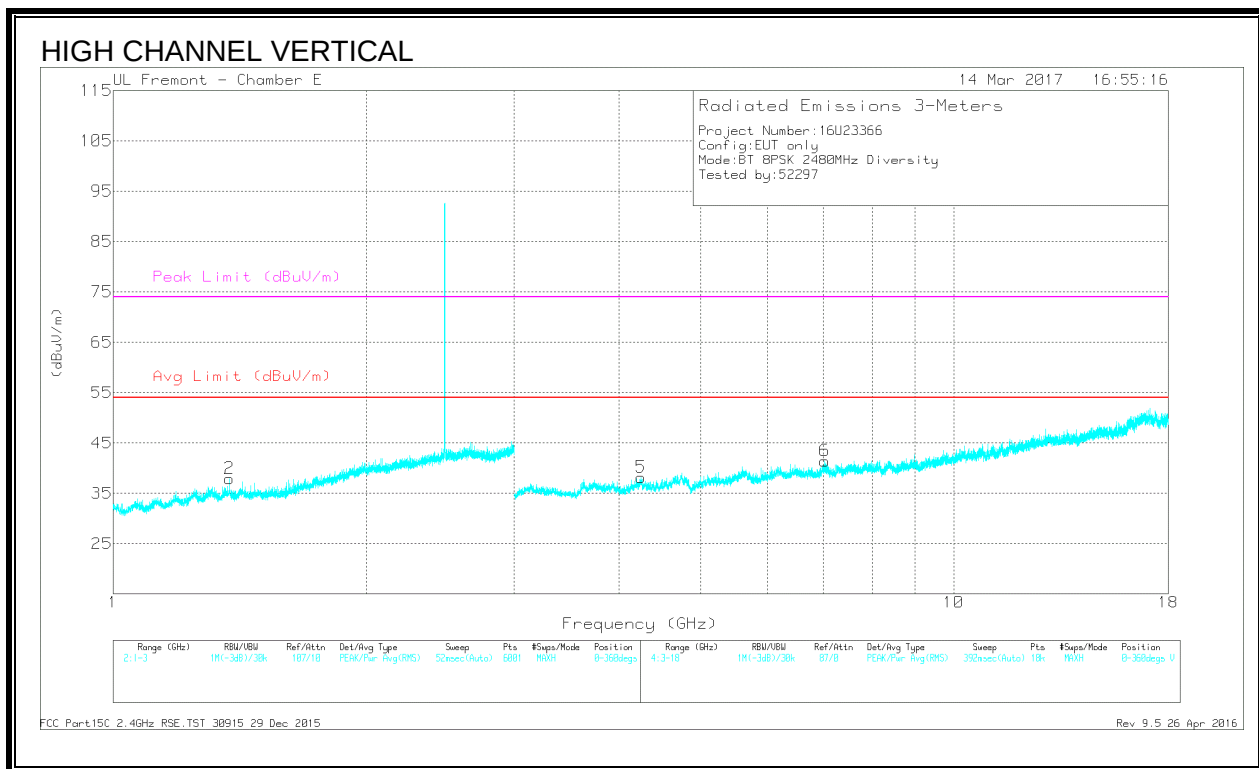
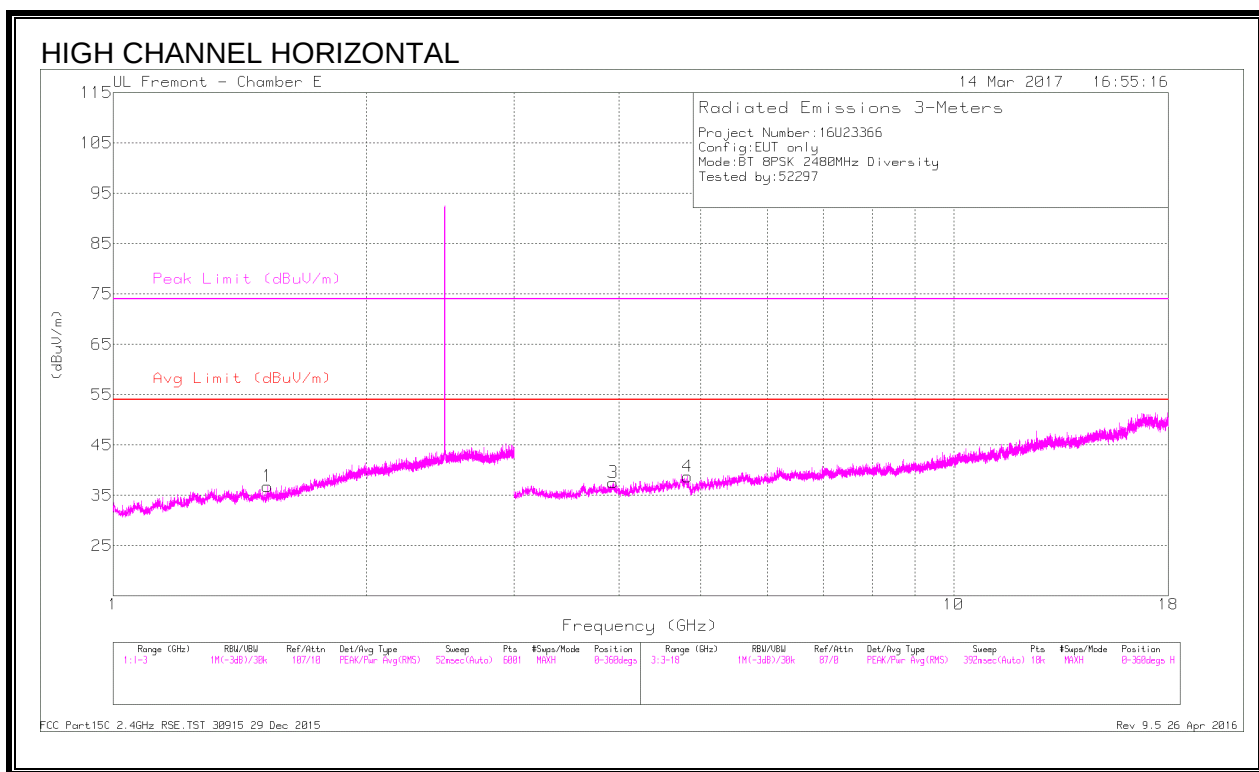
DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.376	36.28	PKFH	28.7	-21.4	43.58	-	-	74	-30.42	360	200	H
* 1.373	19.1	VA1T	28.7	-21.5	26.3	54	-27.7	-	-	360	200	H
* 2.819	37.58	PKFH	32.3	-19.6	50.28	-	-	74	-23.72	360	200	H
* 2.82	18.83	VA1T	32.3	-19.6	31.53	54	-22.47	-	-	360	200	H
* 1.2	35.47	PKFH	28.2	-22.3	41.37	-	-	74	-32.63	360	200	V
* 1.196	19.45	VA1T	28.2	-22.5	25.15	54	-28.85	-	-	360	200	V
* 2.492	37.43	PKFH	32.6	-19.9	50.13	-	-	74	-23.87	360	101	V
* 2.491	19.11	VA1T	32.6	-19.9	31.81	54	-22.19	-	-	360	101	V
1.858	37.04	PKFH	30.6	-20.4	47.24	-	-	-	-	360	200	V
1.946	35.95	PKFH	31.1	-20	47.05	-	-	-	-	360	200	H

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

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

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



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.528	35.45	PKFH	28.1	-21	42.55	-	-	74	-31.45	155	376	H
	* 1.527	18.34	VA1T	28.1	-21	25.44	54	-28.56	-	-	155	376	H
2	* 1.377	35.81	PKFH	28.7	-21.4	43.11	-	-	74	-30.89	182	344	V
	* 1.374	19.07	VA1T	28.7	-21.5	26.27	54	-27.73	-	-	182	344	V
3	* 3.936	39.51	PKFH	33.4	-29.3	43.61	-	-	74	-30.39	60	343	H
	* 3.936	28.01	VA1T	33.4	-29.3	32.11	54	-21.89	-	-	60	343	H
4	* 4.821	40.34	PKFH	34.2	-29.9	44.64	-	-	74	-29.36	228	312	H
	* 4.822	27.99	VA1T	34.2	-29.9	32.29	54	-21.71	-	-	228	312	H
5	* 4.249	39.03	PKFH	33.5	-28.8	43.73	-	-	74	-30.27	185	164	V
	* 4.247	27.17	VA1T	33.5	-28.7	31.97	54	-22.03	-	-	185	164	V
6	7.023	37.6	PKFH	35.7	-26.2	47.1	-	-	-	-	5	368	V

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

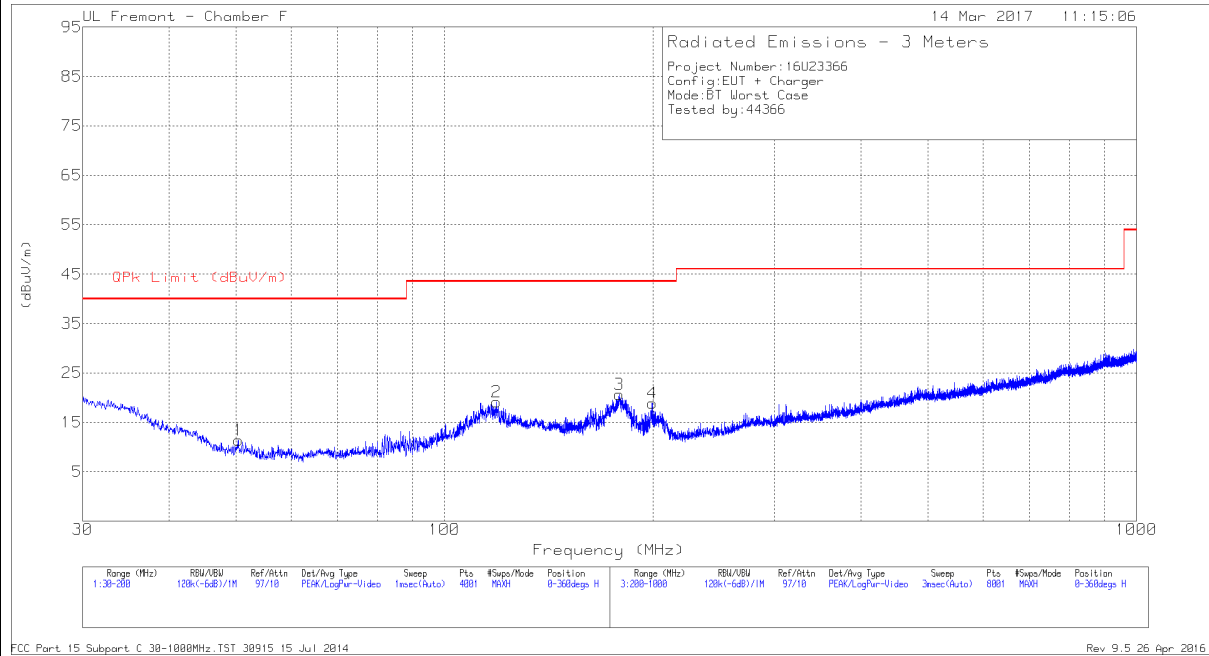
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

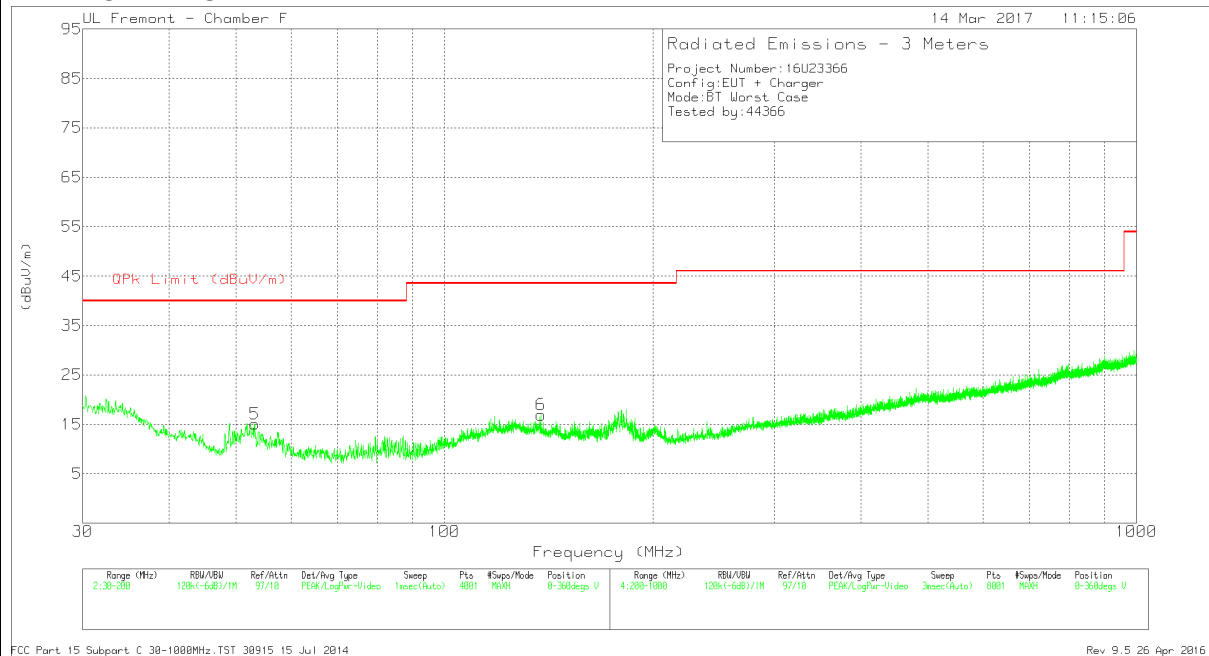
8.10. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



DATA

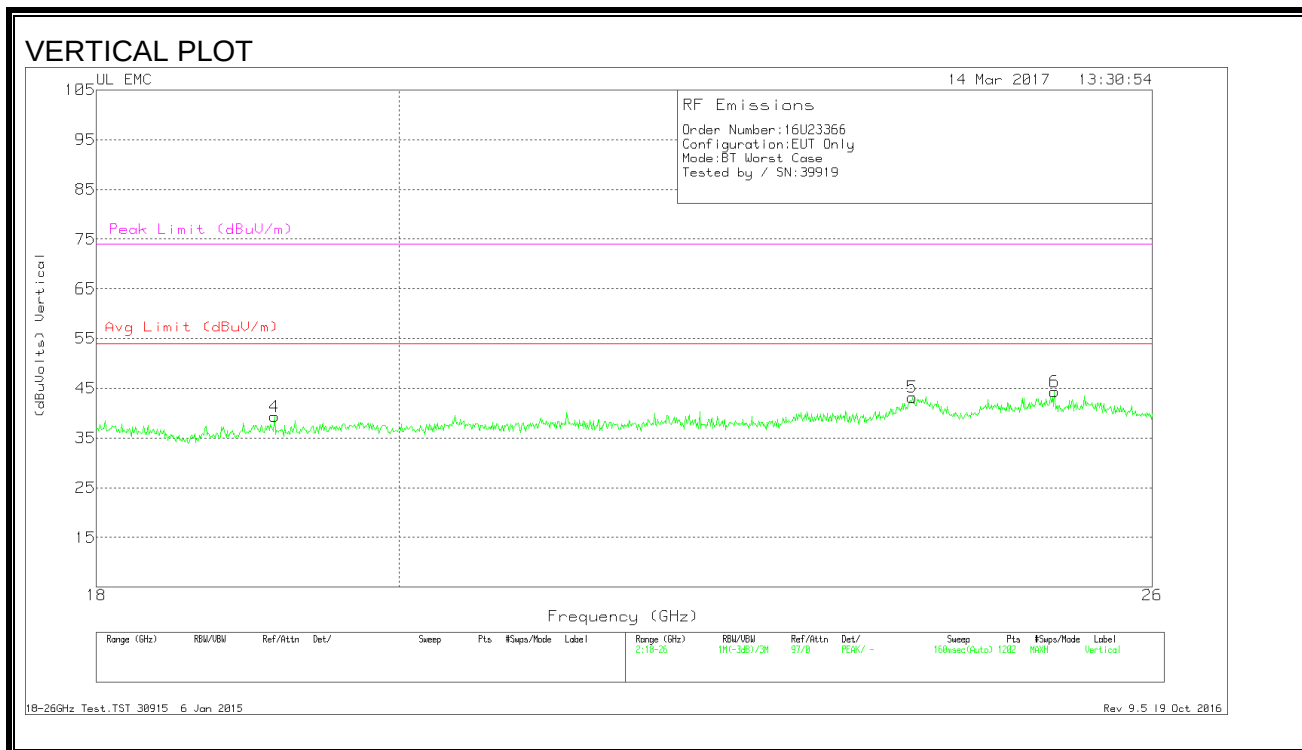
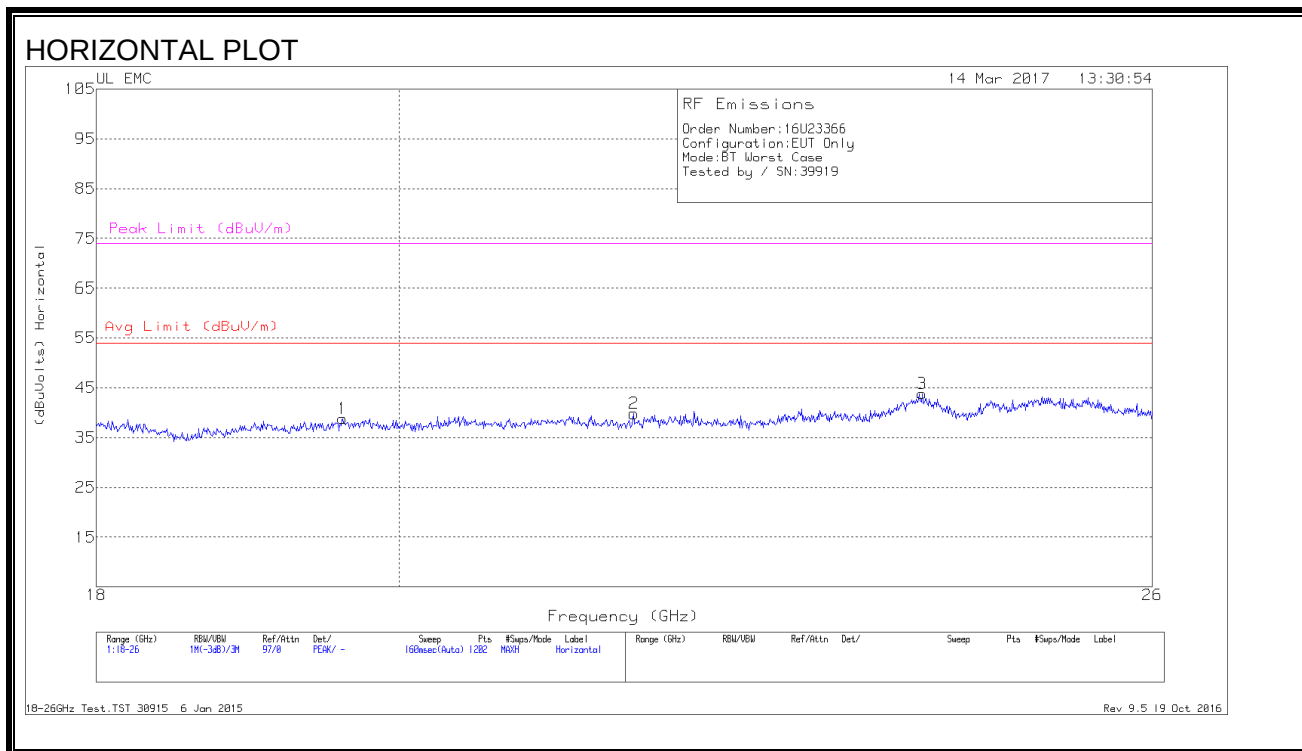
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	50.3575	30.77	Pk	12.2	-31.6	11.37	40	-28.63	0-360	399	H
2	* 118.9525	32.34	Pk	17.8	-31	19.14	43.52	-24.38	0-360	399	H
3	178.9625	35.94	Pk	15.3	-30.6	20.64	43.52	-22.88	0-360	199	H
4	199.575	32.66	Pk	16.7	-30.5	18.86	43.52	-24.66	0-360	100	H
5	53.205	34.55	Pk	12.1	-31.6	15.05	40	-24.95	0-360	100	V
6	* 137.865	30.31	Pk	17.5	-30.9	16.91	43.52	-26.61	0-360	100	V

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

Pk - Peak detector

8.11. WORST-CASE ABOVE 18 GHz

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



Data

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	19.612	40.63	Pk	32.7	-25	-9.5	38.83	54	-15.17	74	-35.17
2	21.704	40.73	Pk	33.2	-24.6	-9.5	39.833	54	-14.17	74	-34.17
3	23.995	43.73	Pk	34	-24.4	-9.5	43.833	54	-10.17	74	-30.17
4	19.152	40.93	Pk	32.7	-24.8	-9.5	39.33	54	-14.67	74	-34.67
5	23.915	42.57	Pk	34	-23.9	-9.5	43.17	54	-10.83	74	-30.83
6	25.127	44.13	Pk	34.3	-24.6	-9.5	44.33	54	-9.67	74	-29.67

Pk - Peak detector

9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

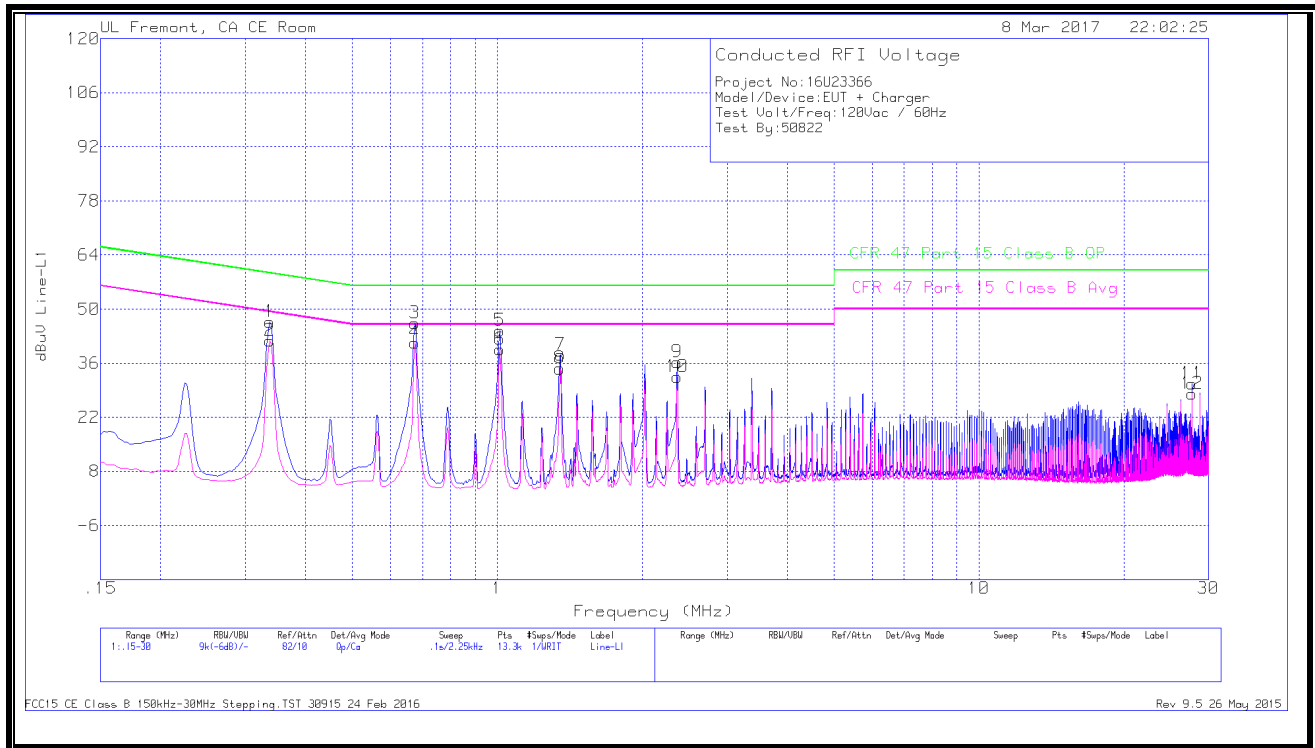
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

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

LINE 1 RESULTS



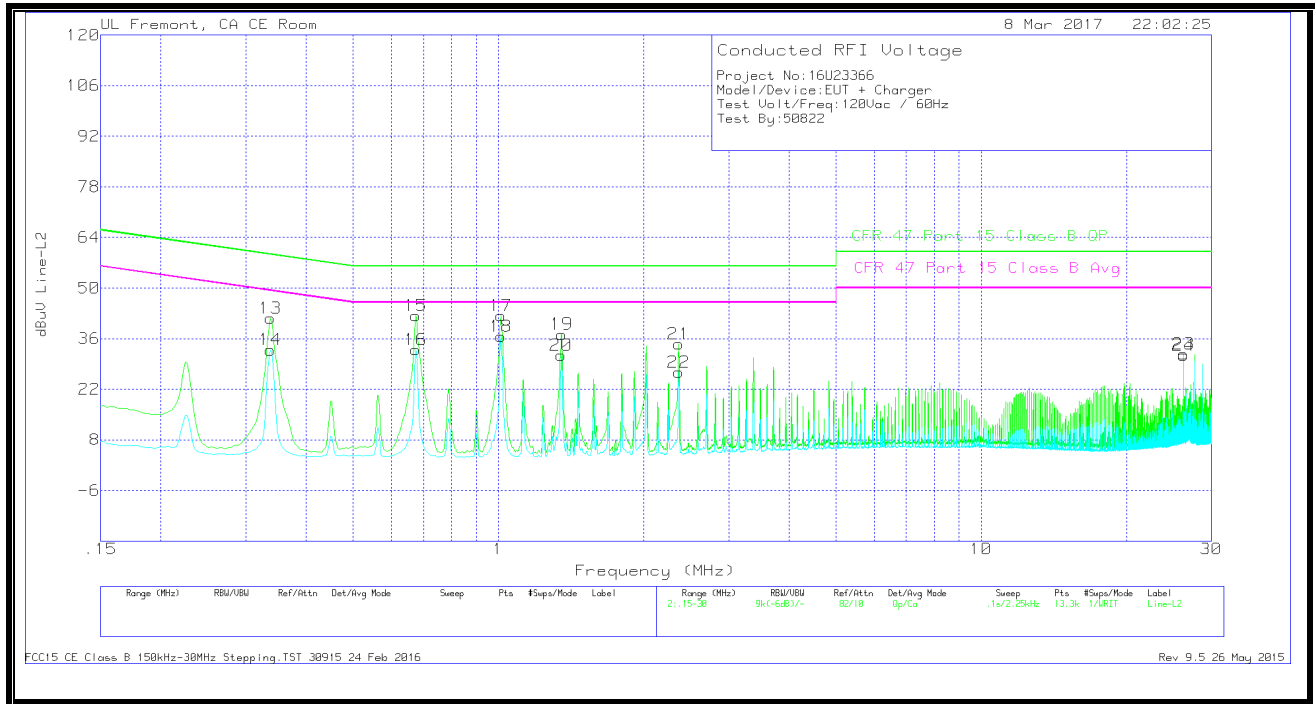
WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 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	.33675	36.47	Qp	0	.1	10.1	46.67	59.28	-12.61	-	-
2	.33675	31.63	Ca	0	.1	10.1	41.83	-	-	49.28	-7.45
3	.67425	36.2	Qp	0	.1	10.1	46.4	56	-9.6	-	-
4	.67425	31.11	Ca	0	.1	10.1	41.31	-	-	46	-4.69
5	1.01175	34.24	Qp	0	.1	10.1	44.44	56	-11.56	-	-
6	1.01175	29.35	Ca	0	.1	10.1	39.55	-	-	46	-6.45
7	1.3515	27.95	Qp	0	.1	10.1	38.15	56	-17.85	-	-
8	1.34925	24.42	Ca	0	.1	10.1	34.62	-	-	46	-11.38
9	2.364	26.11	Qp	0	.1	10.1	36.31	56	-19.69	-	-
10	2.364	22.28	Ca	0	.1	10.1	32.48	-	-	46	-13.52
11	27.69225	19.83	Qp	.1	.3	10.5	30.73	60	-29.27	-	-
12	27.69225	17.17	Ca	.1	.3	10.5	28.07	-	-	50	-21.93

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 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	.33675	31.42	Qp	0	.1	10.1	41.62	59.28	-17.66	-	-
14	.33675	22.68	Ca	0	.1	10.1	32.88	-	-	49.28	-16.4
15	.67425	32.19	Qp	0	.1	10.1	42.39	56	-13.61	-	-
16	.67425	22.76	Ca	0	.1	10.1	32.96	-	-	46	-13.04
17	1.01175	32.12	Qp	0	.1	10.1	42.32	56	-13.68	-	-
18	1.01175	26.46	Ca	0	.1	10.1	36.66	-	-	46	-9.34
19	1.3515	27.02	Qp	0	.1	10.1	37.22	56	-18.78	-	-
20	1.34925	21.13	Ca	0	.1	10.1	31.33	-	-	46	-14.67
21	2.364	24.36	Qp	0	.1	10.1	34.56	56	-21.44	-	-
22	2.364	16.43	Ca	0	.1	10.1	26.63	-	-	46	-19.37
23	26.25	20.91	Qp	.1	.3	10.5	31.81	60	-28.19	-	-
24	26.25	20.47	Ca	.1	.3	10.5	31.37	-	-	50	-18.63

Qp - Quasi-Peak detector

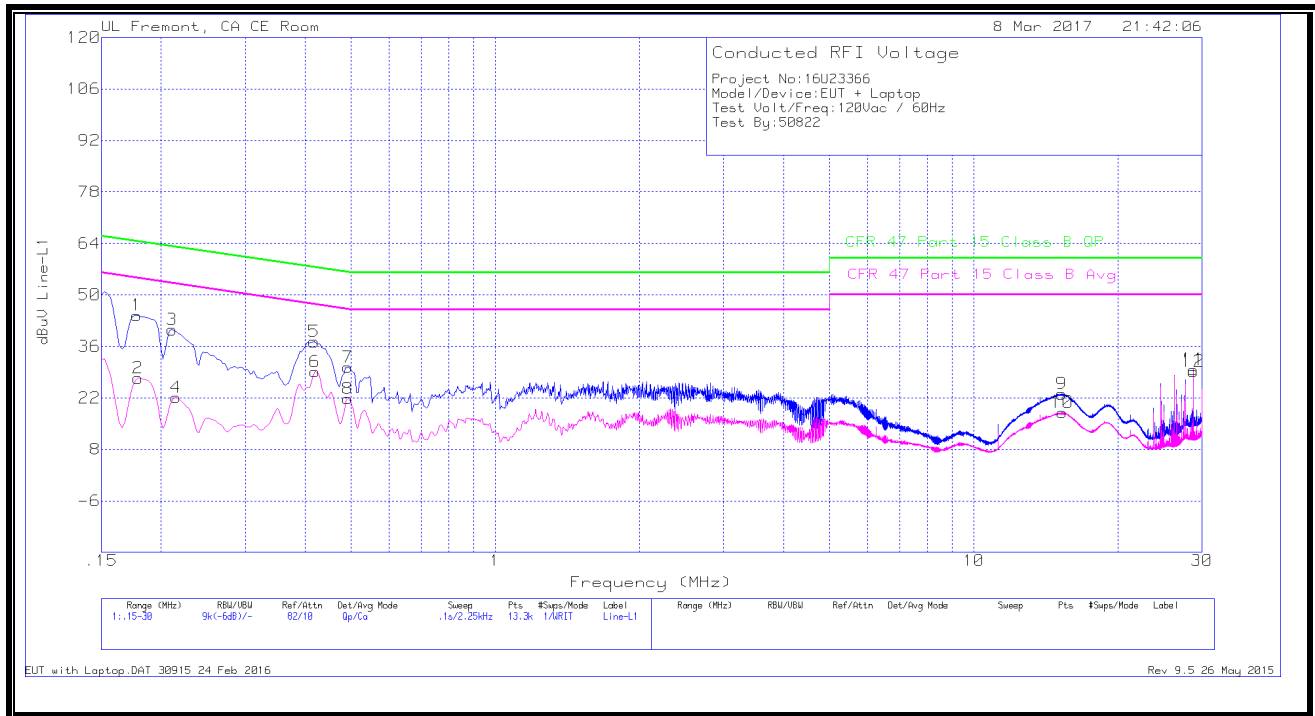
Ca - CISPR average detection

FCC15 CE Class B 150kHz-30MHz Stepping.TST 30915 24 Feb 2016

Rev 9.5 26 May 2015

9.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS



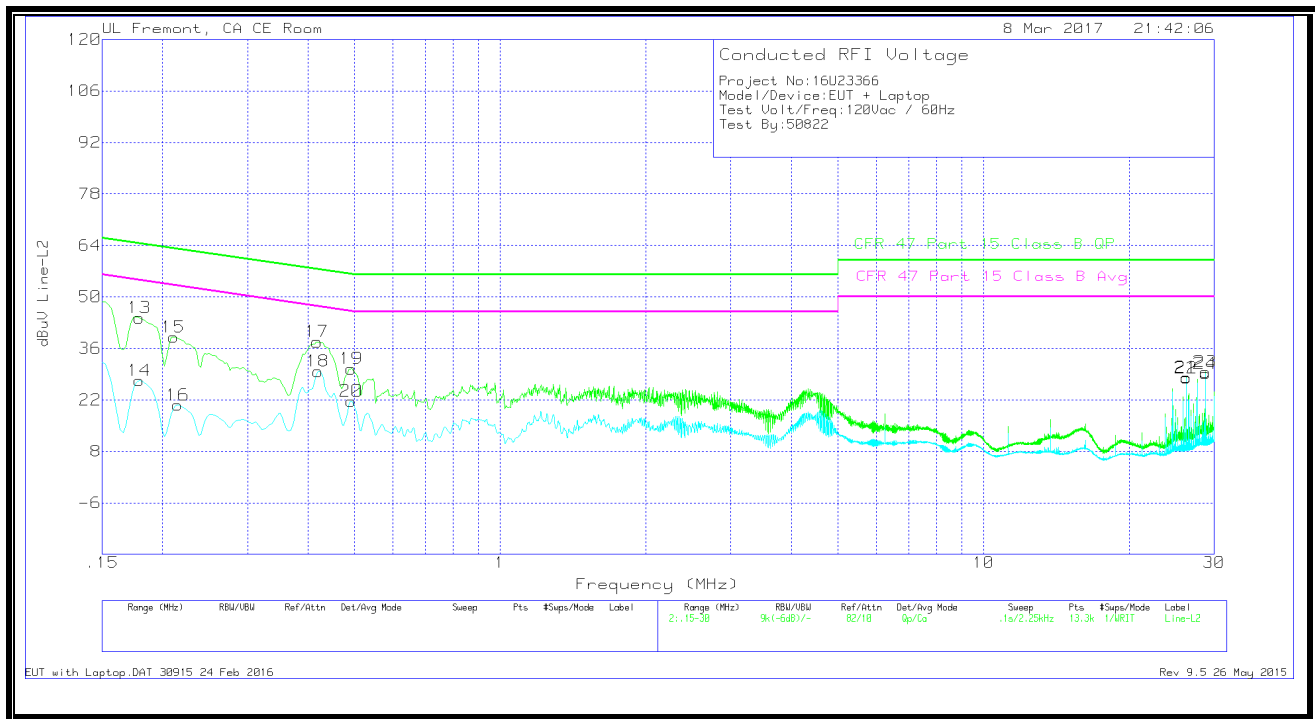
WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 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	.17813	34.25	Qp	0	.1	10.1	44.45	64.57	-20.12	-	-
2	.17925	17.17	Ca	0	.1	10.1	27.37	-	-	54.52	-27.15
3	.21075	30.45	Qp	0	0	10.1	40.55	63.18	-22.63	-	-
4	.21525	11.89	Ca	0	.1	10.1	22.09	-	-	53	-30.91
5	.41775	27.09	Qp	0	.1	10.1	37.29	57.49	-20.2	-	-
6	.42	18.9	Ca	0	.1	10.1	29.1	-	-	47.45	-18.35
7	.492	20.12	Qp	0	.1	10.1	30.32	56.13	-25.81	-	-
8	.492	11.56	Ca	0	.1	10.1	21.76	-	-	46.13	-24.37
9	15.2655	12.69	Qp	0	.2	10.2	23.09	60	-36.91	-	-
10	15.3049	7.68	Ca	0	.2	10.2	18.08	-	-	50	-31.92
11	28.7498	18.82	Qp	.1	.3	10.5	29.72	60	-30.28	-	-
12	28.7498	18.29	Ca	.1	.3	10.5	29.19	-	-	50	-20.81

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 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	.17925	34.11	Qp	0	.1	10.1	44.31	64.52	-20.21	-	-
14	.17925	17.07	Ca	0	.1	10.1	27.27	-	-	54.52	-27.25
15	.21075	28.95	Qp	0	0	10.1	39.05	63.18	-24.13	-	-
16	.21525	10.38	Ca	0	.1	10.1	20.58	-	-	53	-32.42
17	.41775	27.59	Qp	0	.1	10.1	37.79	57.49	-19.7	-	-
18	.42	19.55	Ca	0	.1	10.1	29.75	-	-	47.45	-17.7
19	.492	20.24	Qp	0	.1	10.1	30.44	56.13	-25.69	-	-
20	.492	11.44	Ca	0	.1	10.1	21.64	-	-	46.13	-24.49
21	26.25	17.17	Qp	.1	.3	10.5	28.07	60	-31.93	-	-
22	26.25	17.01	Ca	.1	.3	10.5	27.91	-	-	50	-22.09
23	28.7498	18.7	Qp	.1	.3	10.5	29.6	60	-30.4	-	-
24	28.7498	18.21	Ca	.1	.3	10.5	29.11	-	-	50	-20.89

Qp - Quasi-Peak detector

Ca - CISPR average detection

EUT with Laptop.DAT 30915 24 Feb 2016

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