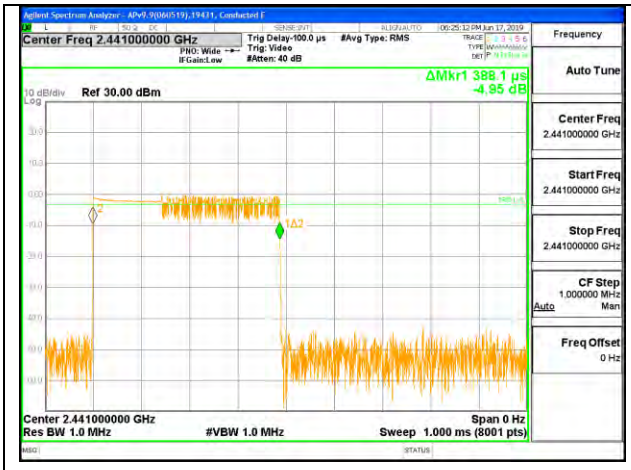
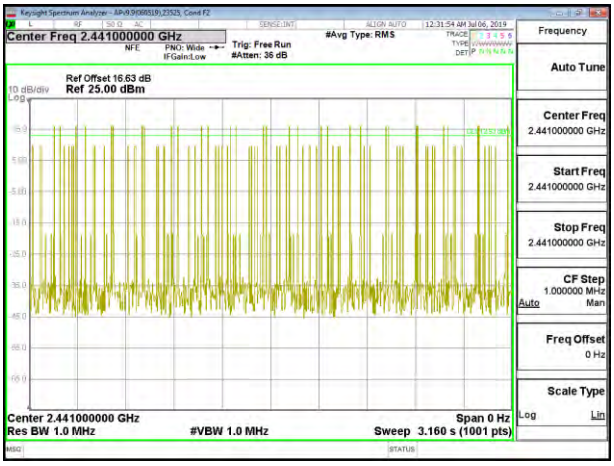


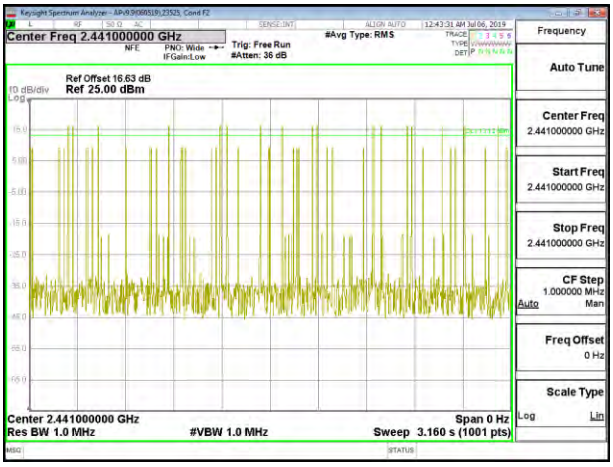
PULSE WIDTH – 3DH1

PULSE WIDTH – 3DH3

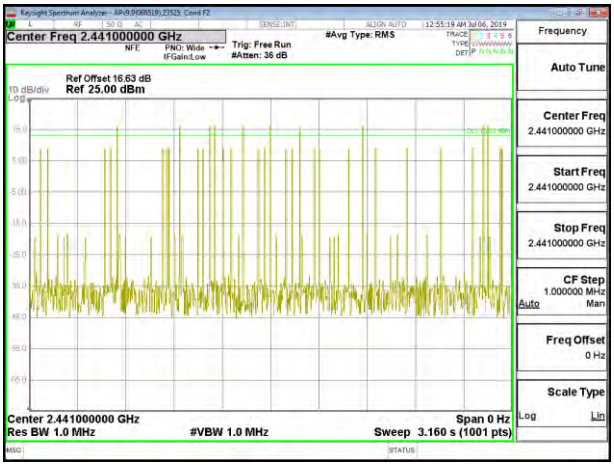
PULSE WIDTH – 3DH5



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH1



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH3



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH5

Antenna 5

DH Packet	Pulse Width (msec)	Number of Pulses in 3.16 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
8PSK Normal Mode					
3DH1	0.388	32	0.1243	0.4	-0.2757
3DH3	1.639	17	0.2786	0.4	-0.1214
3DH5	2.890	10	0.2890	0.4	-0.1110

Note: for AFH(8PSK) mode, please refer to the results of AFH(GFSK) mode; the channel selection and hopping rate are the same for both EDR and Basic Rate operation, data for Basic Rate demonstrates compliance with channel occupancy when AFH is employed.

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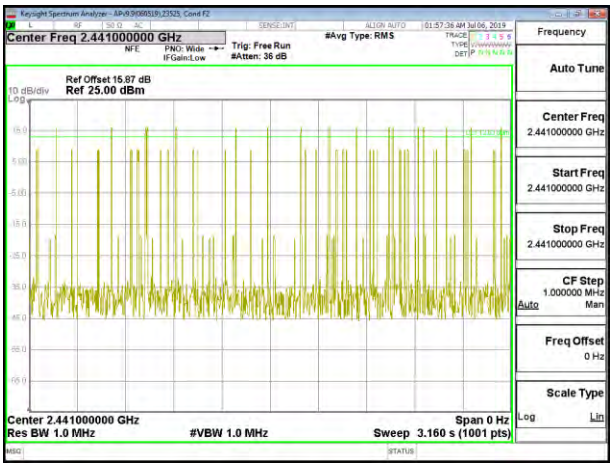
PULSE WIDTH – 3DH1

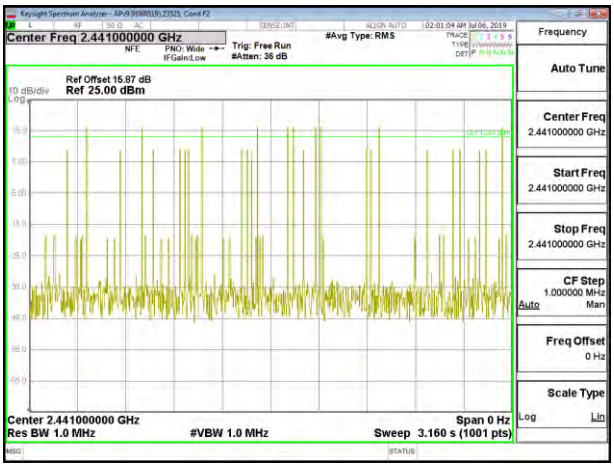
PULSE WIDTH – 3DH3

PULSE WIDTH – 3DH5

NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH1



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH3

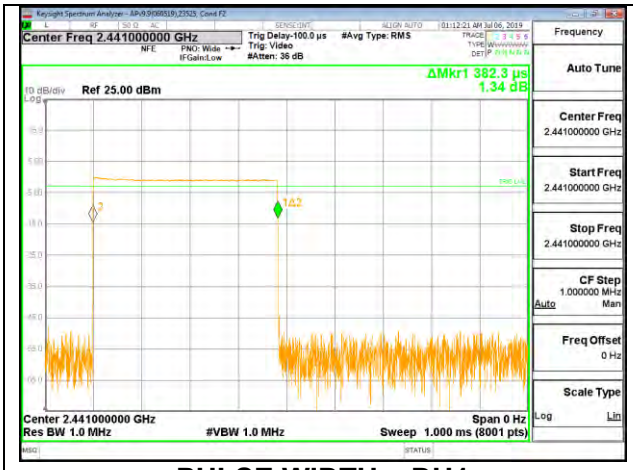


NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH5

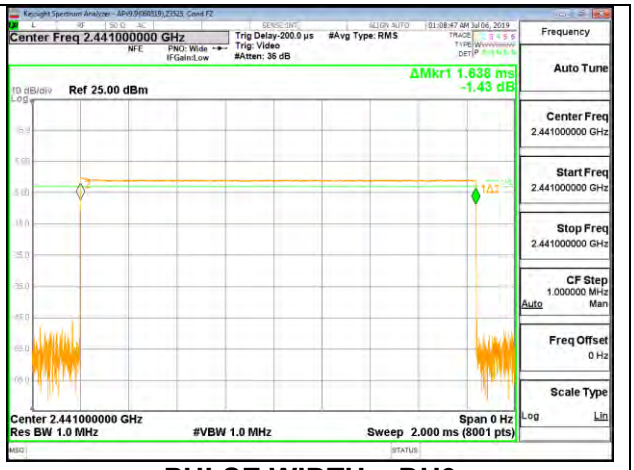
8.12.3. LOW POWER BASIC DATA RATE GFSK MODULATION

Antenna 2

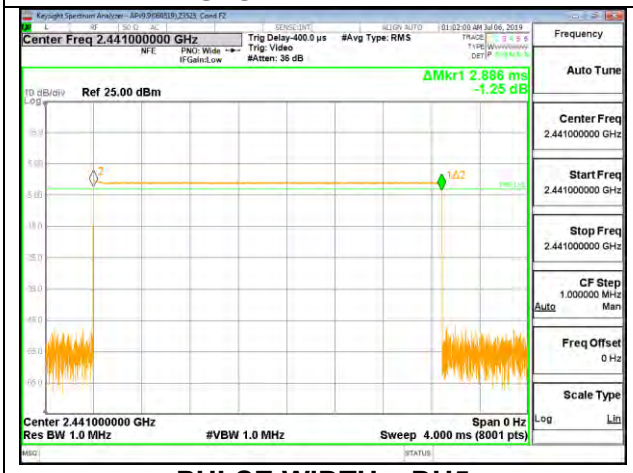
DH Packet	Pulse Width (msec)	Number of Pulses in 3.16 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
GFSK Normal Mode					
DH1	0.382	32	0.1224	0.4	-0.2776
DH3	1.638	16	0.2621	0.4	-0.1379
DH5	2.886	11	0.3175	0.4	-0.0825
DH Packet	Pulse Width (sec)	Number of Pulses in 0.8 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
GFSK AFH Mode					
DH1	0.3824	8	0.03059	0.4	-0.3694
DH3	1.638	4	0.06552	0.4	-0.3345
DH5	2.886	2.75	0.07937	0.4	-0.3206



PULSE WIDTH – DH1

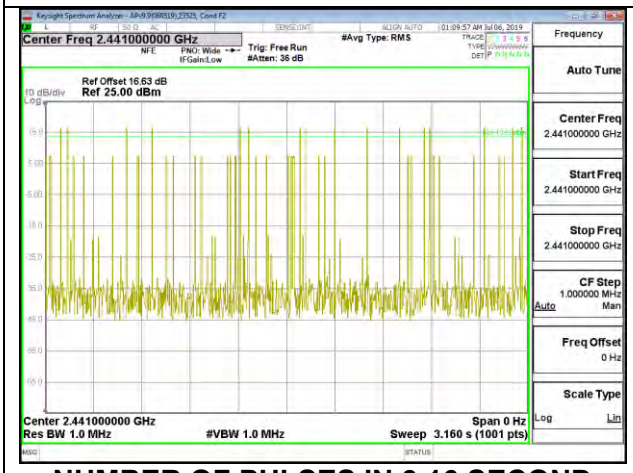


PULSE WIDTH – DH3



PULSE WIDTH – DH5

NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – DH1

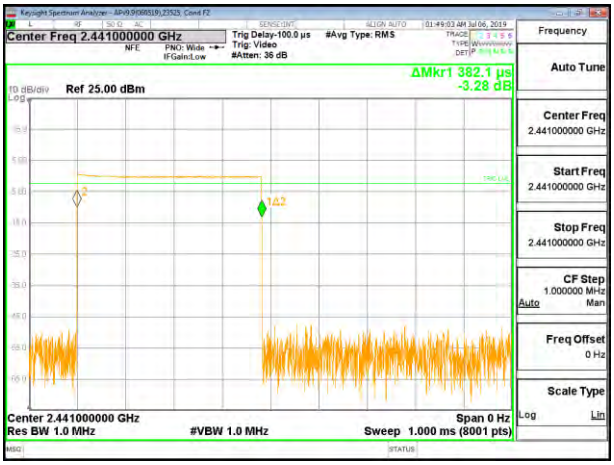


NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD –DH3

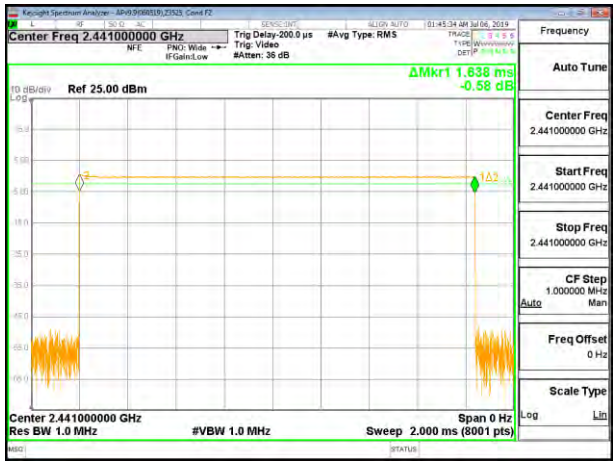
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD –DH5

Antenna 5

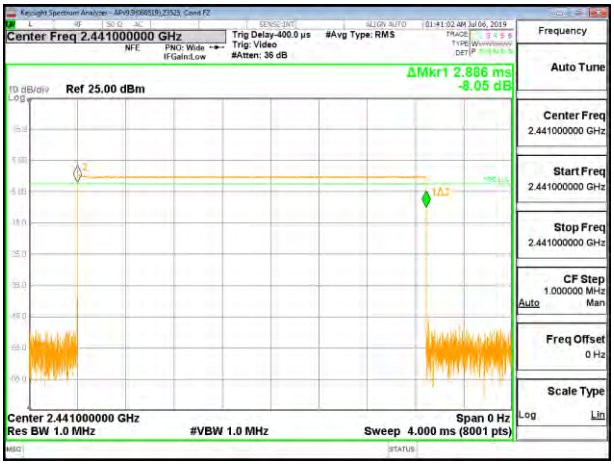
DH Packet	Pulse Width (msec)	Number of Pulses in 3.16 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
GFSK Normal Mode					
DH1	0.382	32	0.1224	0.4	-0.2776
DH3	1.638	18	0.2948	0.4	-0.1052
DH5	2.886	9	0.2597	0.4	-0.1403
DH Packet	Pulse Width (sec)	Number of Pulses in 0.8 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
GFSK AFH Mode					
DH1	0.382	8	0.03059	0.4	-0.3694
DH3	1.638	4.5	0.07371	0.4	-0.3263
DH5	2.886	2.25	0.06494	0.4	-0.3351



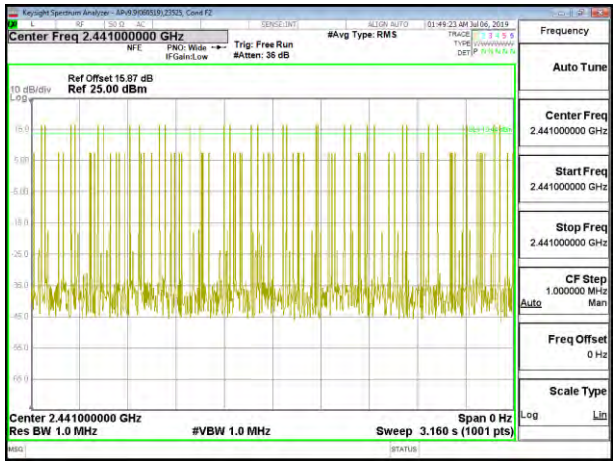
PULSE WIDTH – DH1



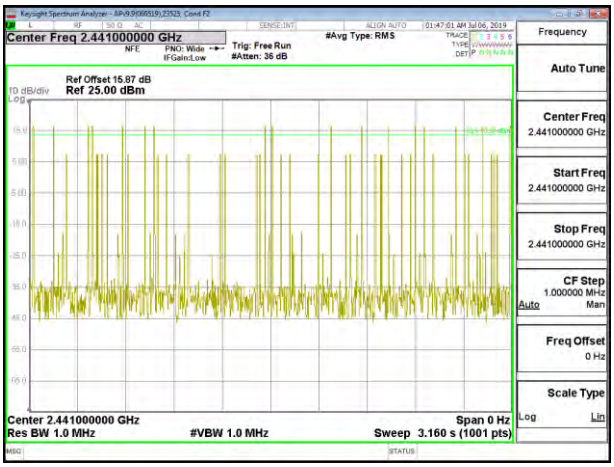
PULSE WIDTH – DH3



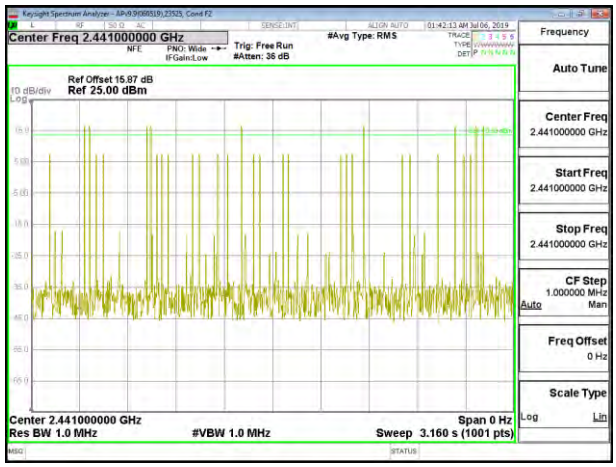
PULSE WIDTH – DH5



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – DH1



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – DH3



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – DH5

8.12.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

Antenna 2

DH Packet	Pulse Width (msec)	Number of Pulses in 3.16 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
8PSK Normal Mode					
3DH1	0.388	32	0.124288	0.4	-0.2757
3DH3	1.639	17	0.27863	0.4	-0.1214
3DH5	2.890	9	0.2601	0.4	-0.1399

Note: for AFH(8PSK) mode, please refer to the results of AFH(GFSK) mode; the channel selection and hopping rate are the same for both EDR and Basic Rate operation, data for Basic Rate demonstrates compliance with channel occupancy when AFH is employed.

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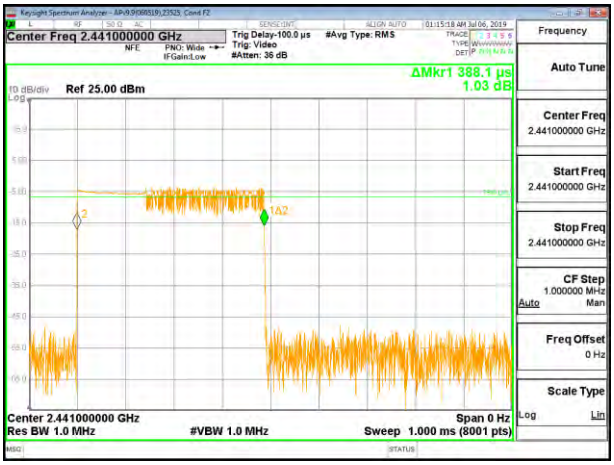
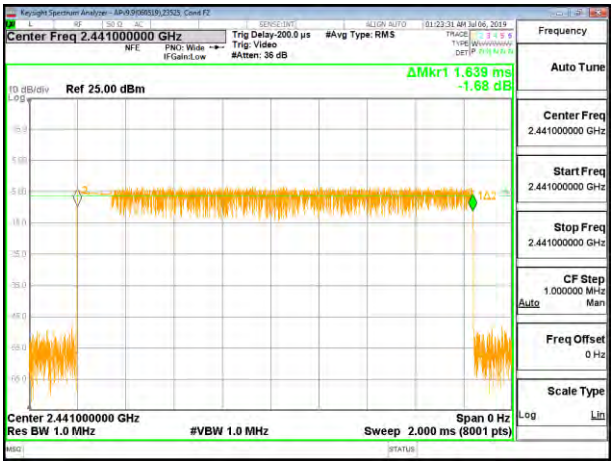
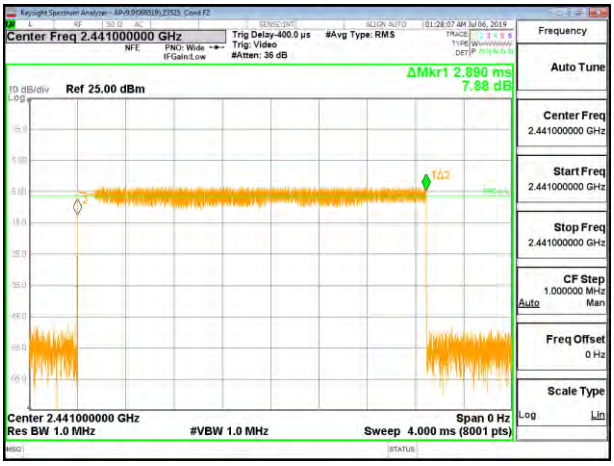


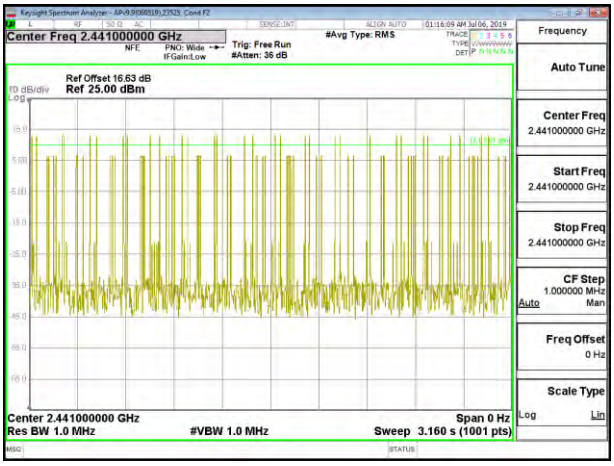
PULSE WIDTH – 3DH1



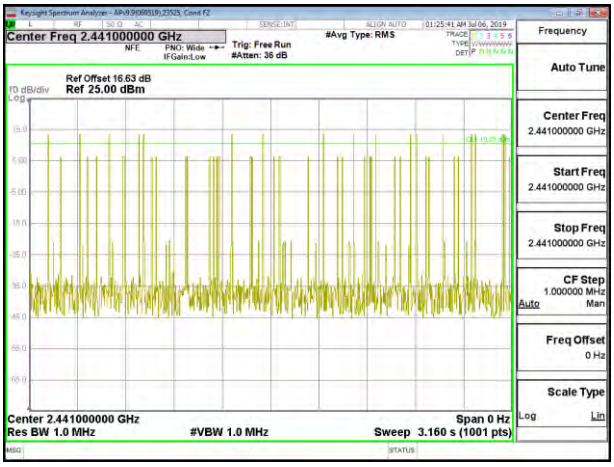
PULSE WIDTH – 3DH3



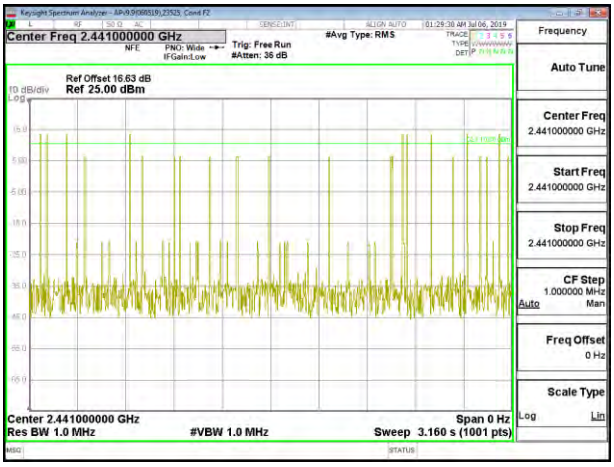
PULSE WIDTH – 3DH5



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH1



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH3



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH5

Antenna 5

DH Packet	Pulse Width (msec)	Number of Pulses in 3.16 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
8PSK Normal Mode					
3DH1	0.388	32	0.124256	0.4	-0.2757
3DH3	1.639	17	0.27863	0.4	-0.1214
3DH5	2.890	11	0.3179	0.4	-0.0821

Note: for AFH(8PSK) mode, please refer to the results of AFH(GFSK) mode; the channel selection and hopping rate are the same for both EDR and Basic Rate operation, data for Basic Rate demonstrates compliance with channel occupancy when AFH is employed.

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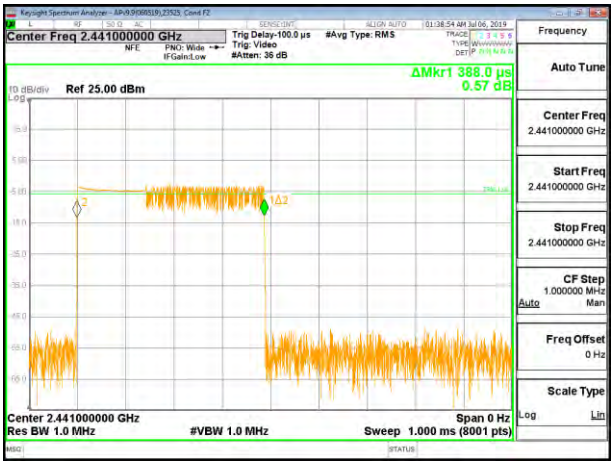
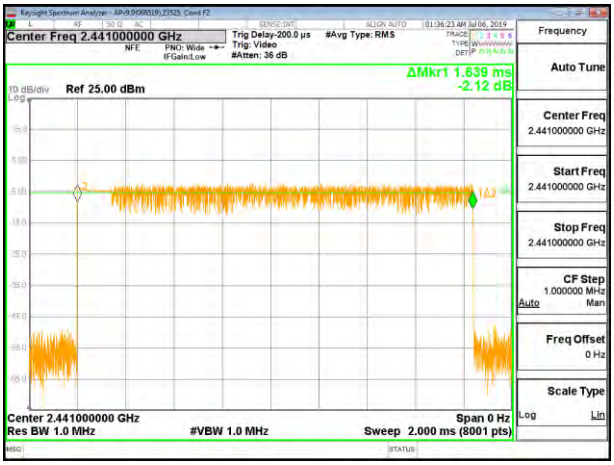
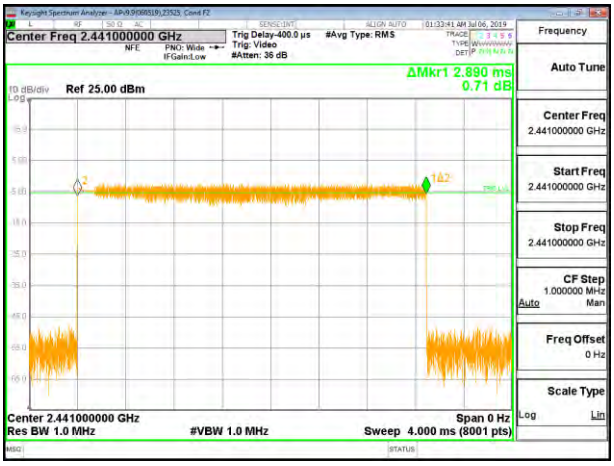


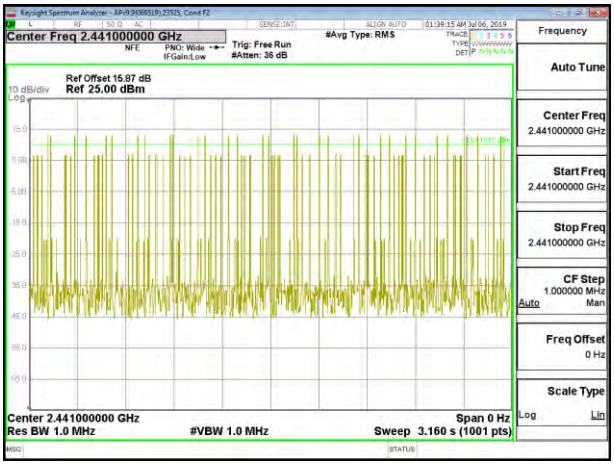
PULSE WIDTH – 3DH1



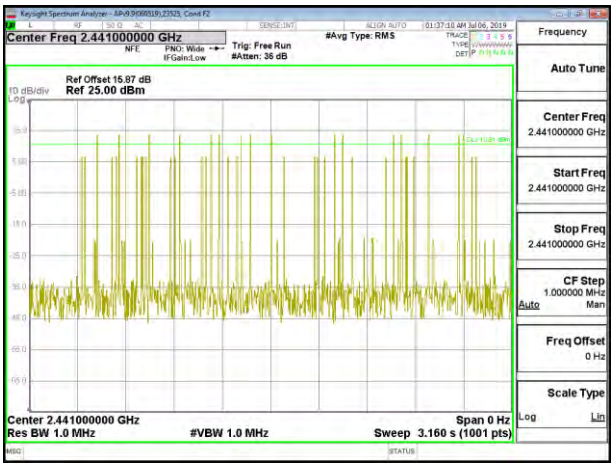
PULSE WIDTH – 3DH3



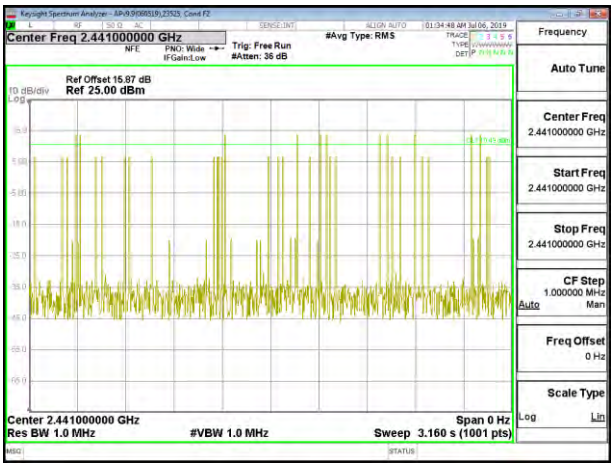
PULSE WIDTH – 3DH5



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH1



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH3



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – 3DH5

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8.13. BEAMFORMING OUTPUT POWER

8.13.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	23547
Date:	6/24/2019

Channel	Frequency (MHz)	Output Power Antenna 2 (dBm)	Output Power Antenna 5 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	16.86	17.06	19.97	21	-1.03
Middle	2441	17.08	16.87	19.99	21	-1.01
High	2480	17.11	16.84	19.99	21	-1.01

8.13.2. HIGH POWER ENHANCED DATA RATE QPSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	20773
Date:	7/3/2019

Channel	Frequency (MHz)	Output Power Antenna 2 (dBm)	Output Power Antenna 5 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	17.46	17.39	20.44	21	-0.56
Middle	2441	17.37	17.35	20.37	21	-0.63
High	2480	17.40	17.38	20.40	21	-0.60

8.13.3. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	23547
Date:	6/24/2019

Channel	Frequency (MHz)	Output Power Antenna 2 (dBm)	Output Power Antenna 5 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	17.50	17.42	20.47	21	-0.53
Middle	2441	17.43	17.41	20.43	21	-0.57
High	2480	17.45	17.46	20.47	21	-0.53

8.13.4. LOW POWER BASIC DATA RATE GFSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	23547
Date:	6/24/2019

Channel	Frequency (MHz)	Output Power Antenna 2 (dBm)	Output Power Antenna 5 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	12.48	12.65	15.55	21	-5.45
Middle	2441	12.52	12.57	15.58	21	-5.42
High	2480	12.53	12.59	15.57	21	-5.43

8.13.5. LOW POWER ENHANCED DATA RATE QPSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	20773
Date:	7/3/2019

Channel	Frequency (MHz)	Output Power Antenna 2 (dBm)	Output Power Antenna 5 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	10.73	10.79	13.77	21	-7.23
Middle	2441	10.79	10.83	13.91	21	-7.09
High	2480	10.95	10.84	13.82	21	-7.18

8.13.6. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	23547
Date:	6/24/2019

Channel	Frequency (MHz)	Output Power Antenna 2 (dBm)	Output Power Antenna 5 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	11.10	11.02	14.07	21	-6.93
Middle	2441	11.13	11.07	14.11	21	-6.89
High	2480	11.05	10.70	13.89	21	-7.11

8.14. BEAMFORMING AVERAGE POWER

8.14.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	23547
Date:	6/24/2019

Channel	Frequency (MHz)	Average Power Antenna 2 (dBm)	Average Power Antenna 5 (dBm)	Total Power (dBm)
Low	2402	16.63	16.75	19.70
Middle	2441	16.74	16.68	19.72
High	2480	16.73	16.61	19.68

8.14.2. HIGH POWER ENHANCED DATA RATE QPSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	20773
Date:	7/3/2019

Channel	Frequency (MHz)	Average Power Antenna 2 (dBm)	Average Power Antenna 5 (dBm)	Total Power (dBm)
Low	2402	14.69	14.68	17.70
Middle	2441	14.70	14.71	17.72
High	2480	14.72	14.71	17.73

8.14.3. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	23547
Date:	6/24/2019

Channel	Frequency (MHz)	Average Power Antenna 2 (dBm)	Average Power Antenna 5 (dBm)	Total Power (dBm)
Low	2402	14.71	14.70	17.72
Middle	2441	14.74	14.73	17.75
High	2480	14.73	14.72	17.74

8.14.4. LOW POWER BASIC DATA RATE GFSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	23547
Date:	6/24/2019

Channel	Frequency (MHz)	Average Power Antenna 2 (dBm)	Average Power Antenna 5 (dBm)	Total Power (dBm)
Low	2402	12.19	12.25	15.23
Middle	2441	12.22	12.15	15.20
High	2480	12.22	12.18	15.21

8.14.5. LOW POWER ENHANCED DATA RATE QPSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	20773
Date:	7/3/2019

Channel	Frequency (MHz)	Average Power Antenna 2 (dBm)	Average Power Antenna 5 (dBm)	Total Power (dBm)
Low	2402	8.56	8.68	11.63
Middle	2441	8.65	8.69	11.68
High	2480	8.70	8.59	11.66

8.14.6. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	23547
Date:	6/24/2019

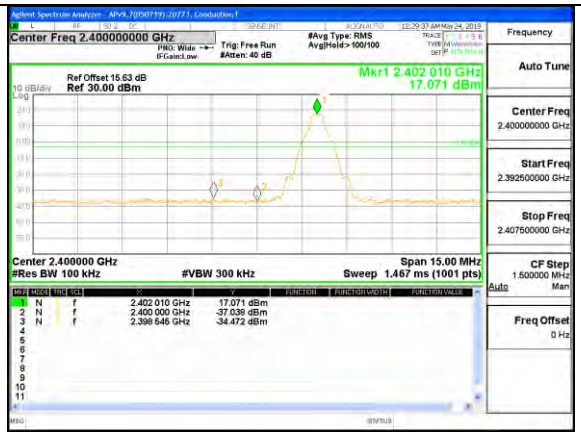
Channel	Frequency (MHz)	Average Power Antenna 2 (dBm)	Average Power Antenna 5 (dBm)	Total Power (dBm)
Low	2402	8.68	8.68	11.69
Middle	2441	8.66	8.72	11.70
High	2480	8.71	8.61	11.67

8.15. BEAMFORMING CONDUCTED SPURIOUS EMISSIONS

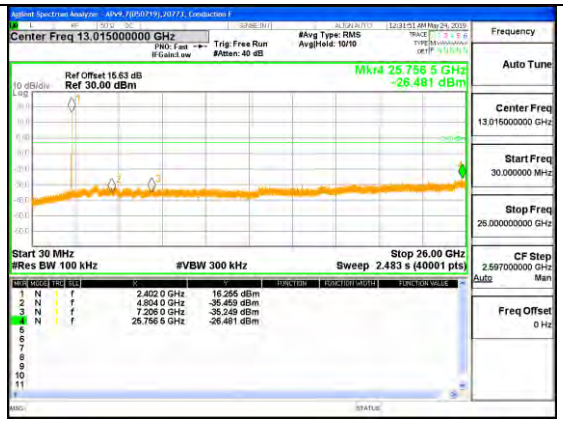
8.15.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

Note: Test procedure on beamforming mode is same as BT basic and EDR mode

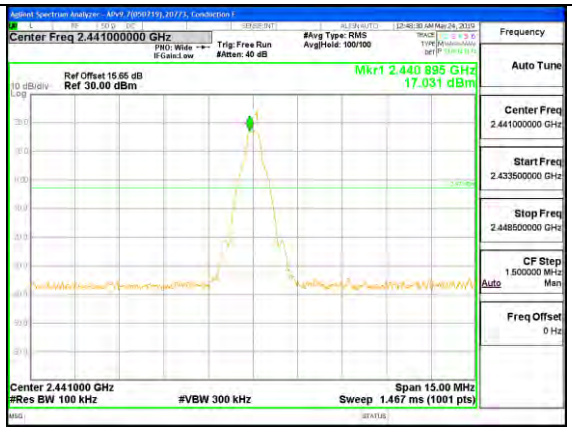
Antenna 2 SPURIOUS EMISSIONS, NON-HOPPING



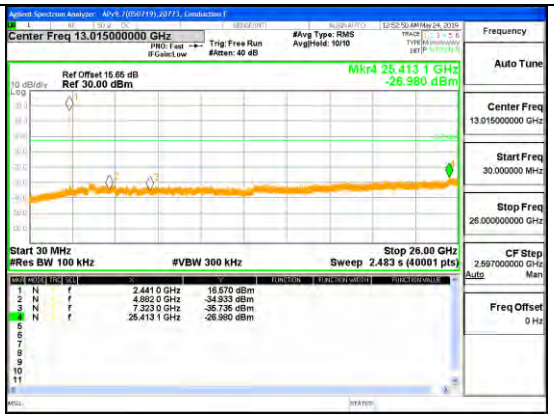
LOW CHANNEL BANDEDGE



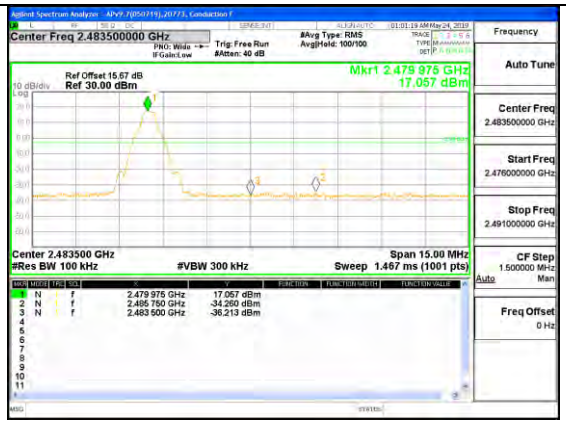
OUT-OF-BAND LOW CHANNEL



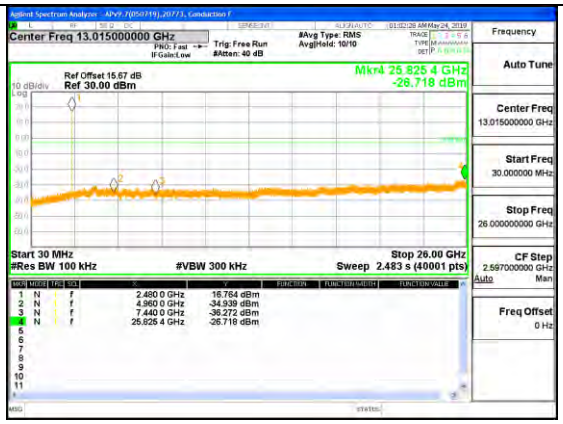
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

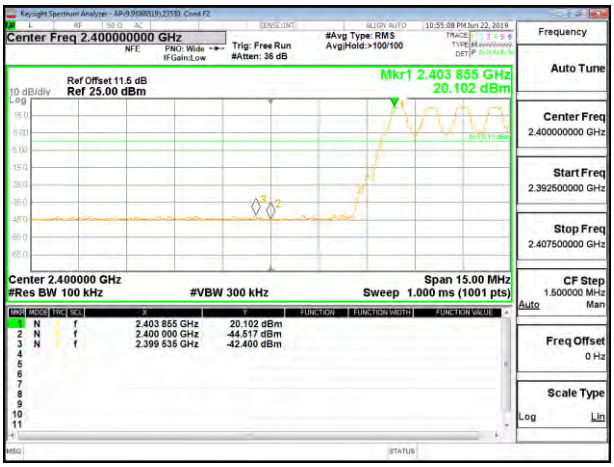


HIGH CHANNEL BANDEDGE

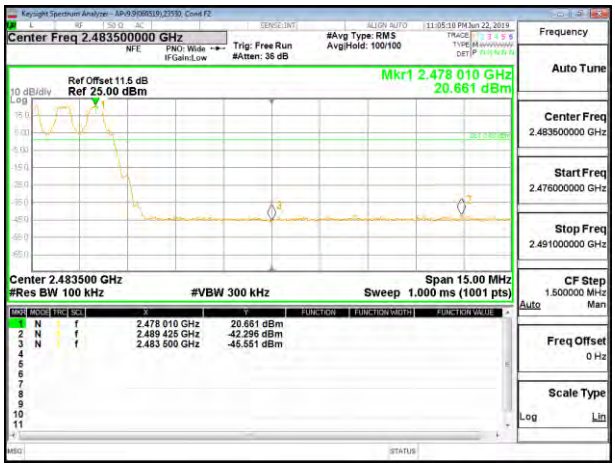


OUT-OF-BAND HIGH CHANNEL

Antenna 2, ANTSPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

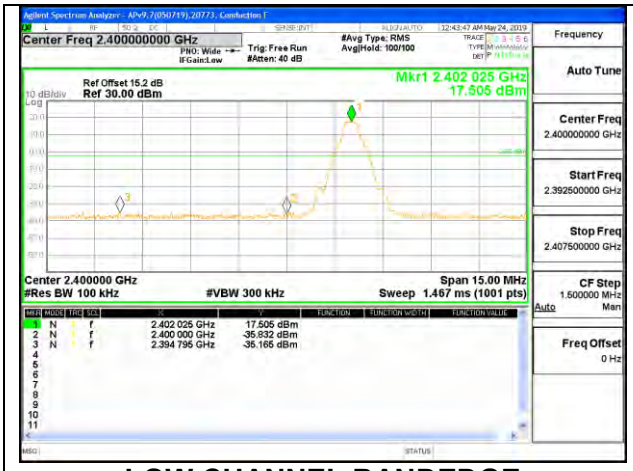


LOW BANDEDGE

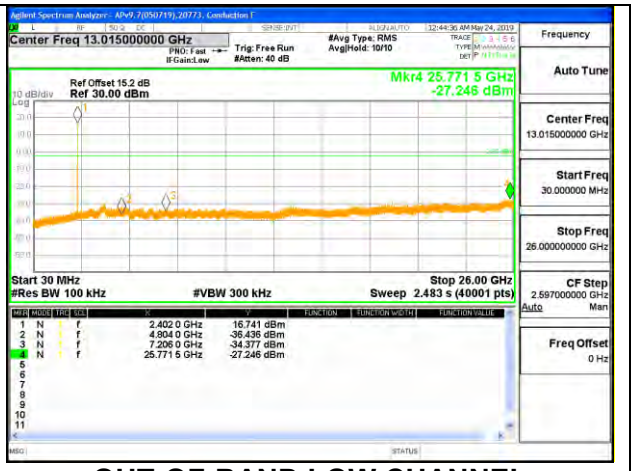


HIGH BANDEDGE

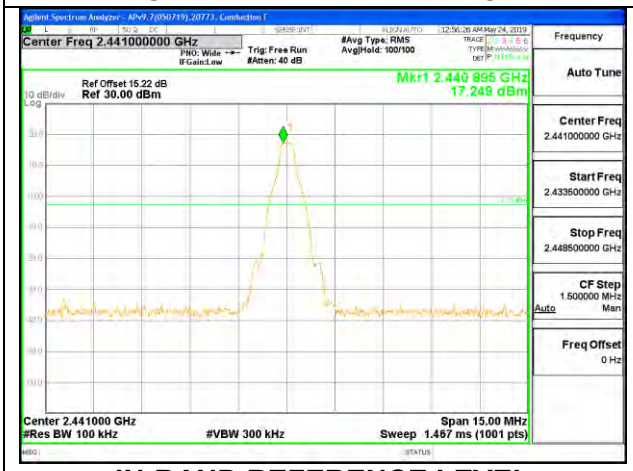
Antenna 5 SPURIOUS EMISSIONS, NON-HOPPING



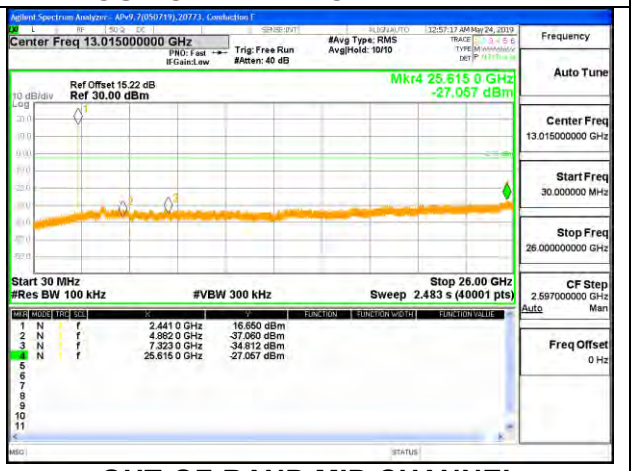
LOW CHANNEL BANDEDGE



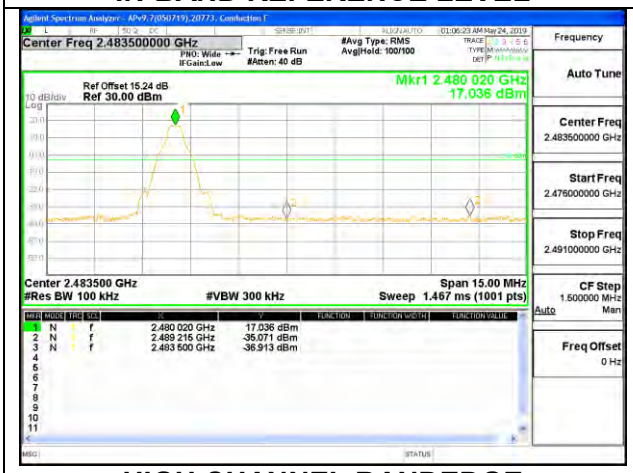
OUT-OF-BAND LOW CHANNEL



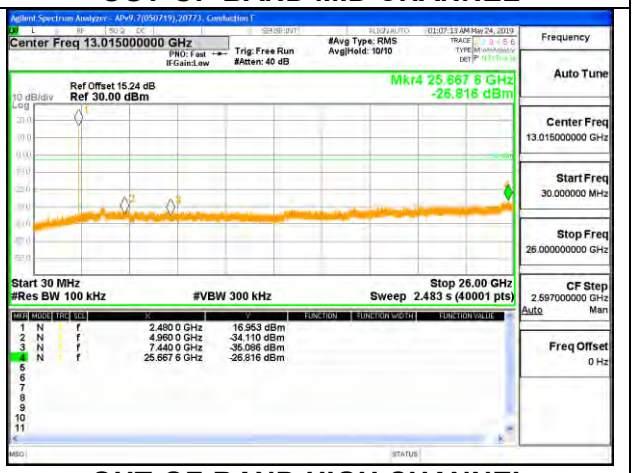
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE

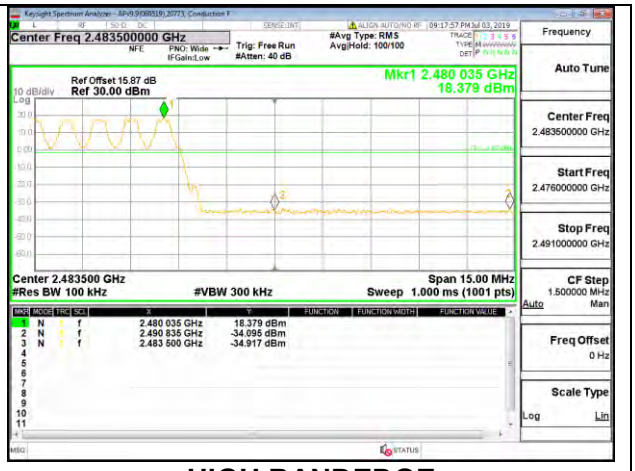


OUT-OF-BAND HIGH CHANNEL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

Antenna 5 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

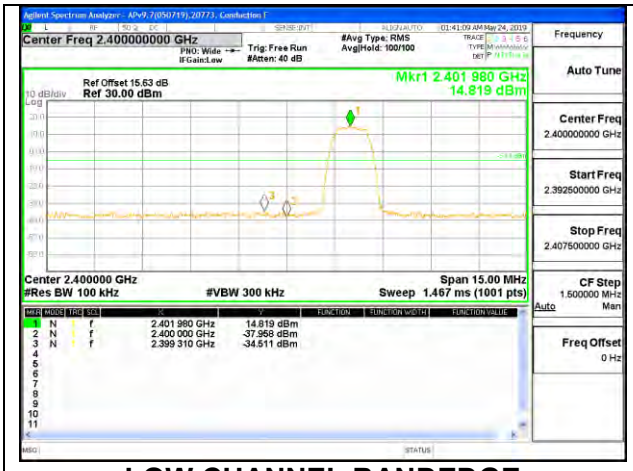
LOW BANDEDGE



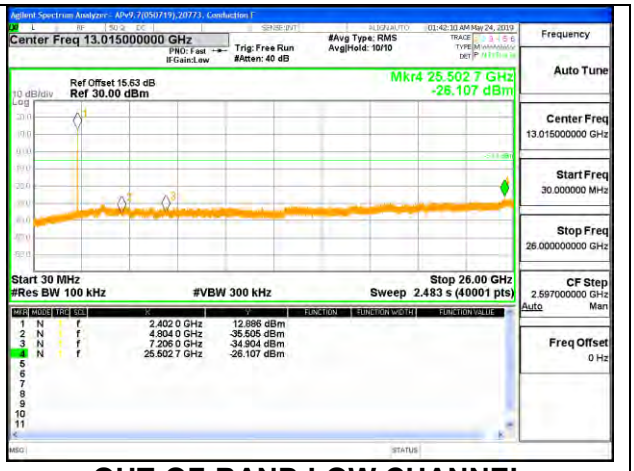
HIGH BANDEDGE

8.15.2. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

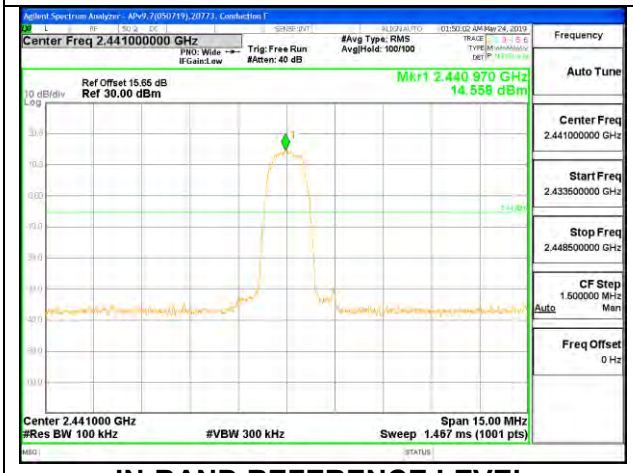
Antenna 2 SPURIOUS EMISSIONS, NON-HOPPING



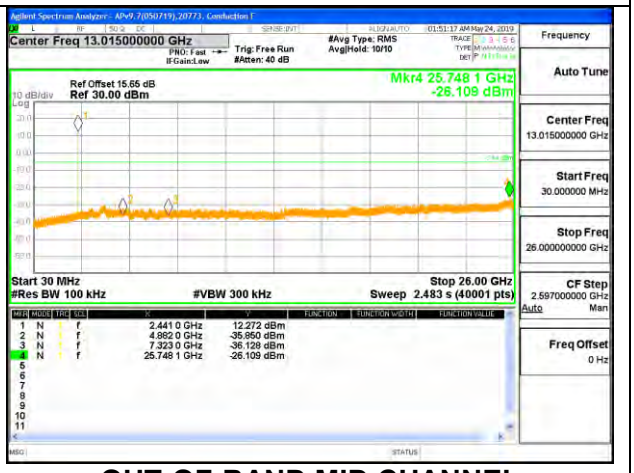
LOW CHANNEL BANDEDGE



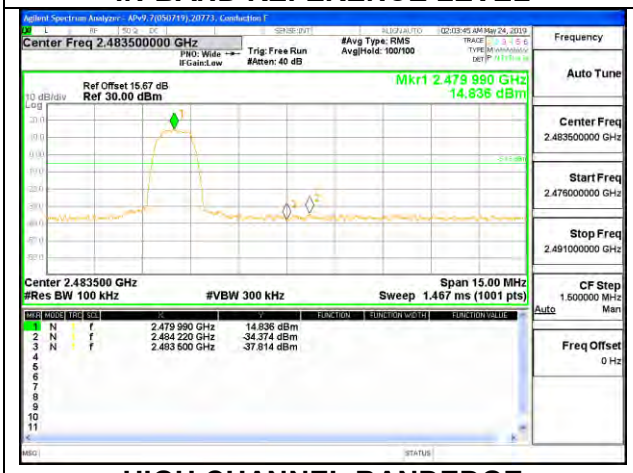
OUT-OF-BAND LOW CHANNEL



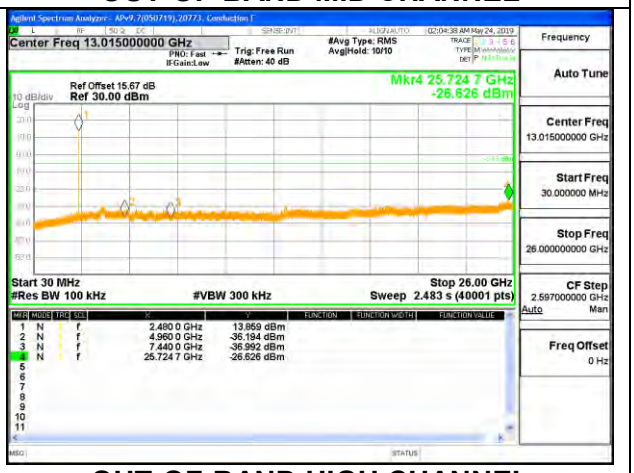
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



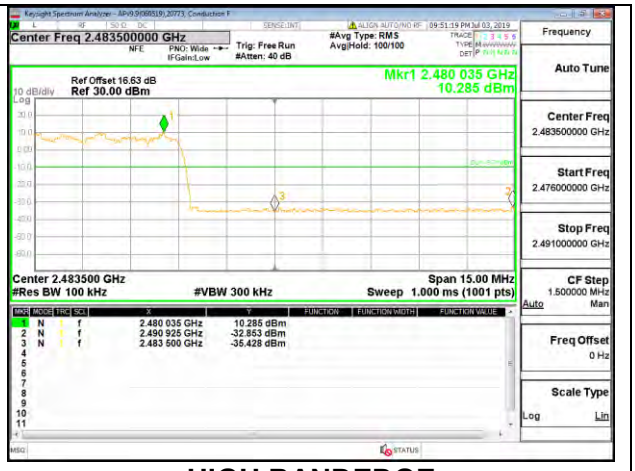
HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

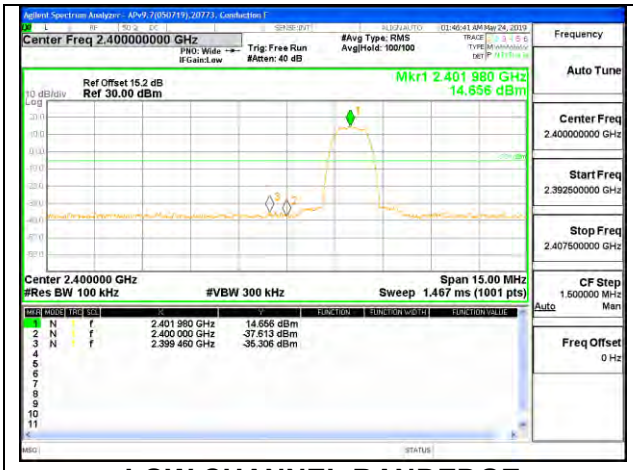
Antenna 2 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW BANDEDGE

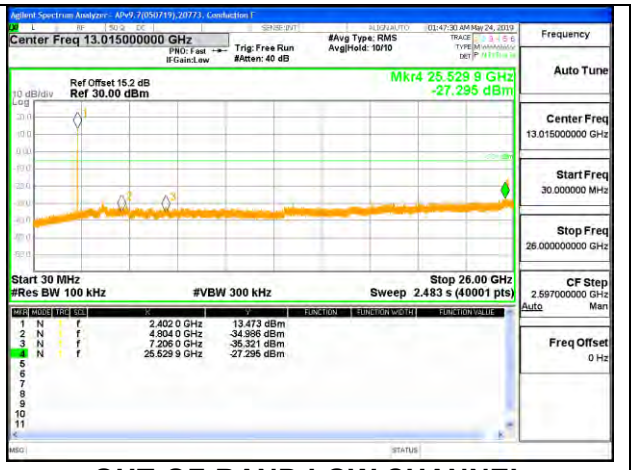


HIGH BANDEDGE

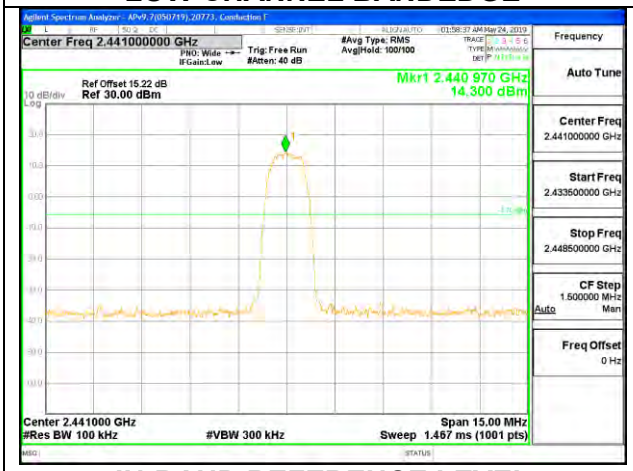
Antenna 5 SPURIOUS EMISSIONS, NON-HOPPING



LOW CHANNEL BANDEDGE

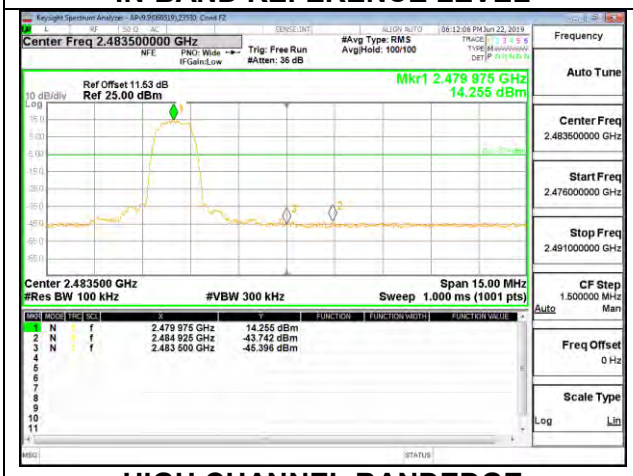


OUT-OF-BAND LOW CHANNEL

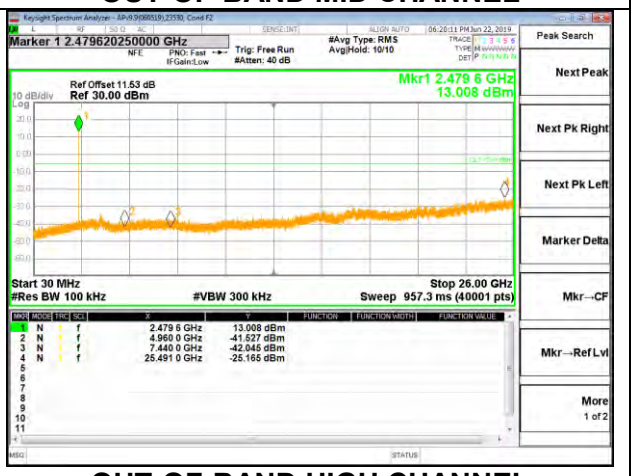


IN-BAND REFERENCE LEVEL

OUT-OF-BAND MID CHANNEL



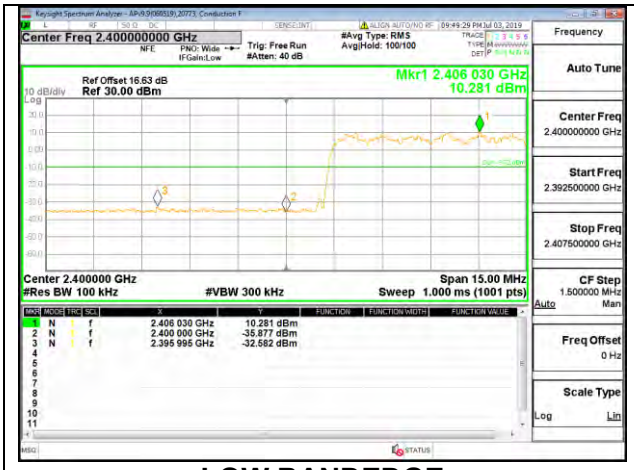
HIGH CHANNEL BANDEDGE



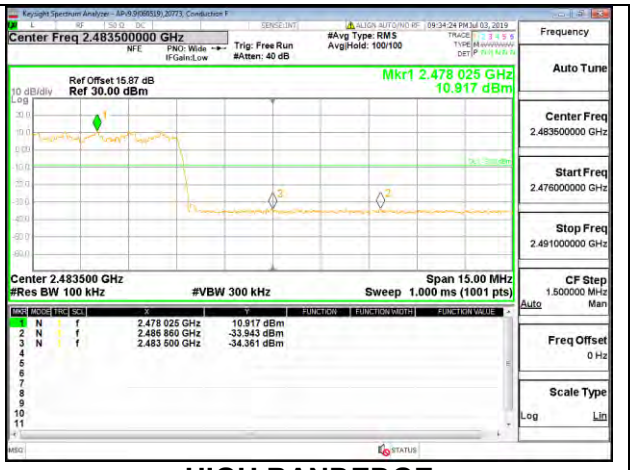
OUT-OF-BAND HIGH CHANNEL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

Antenna 5 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



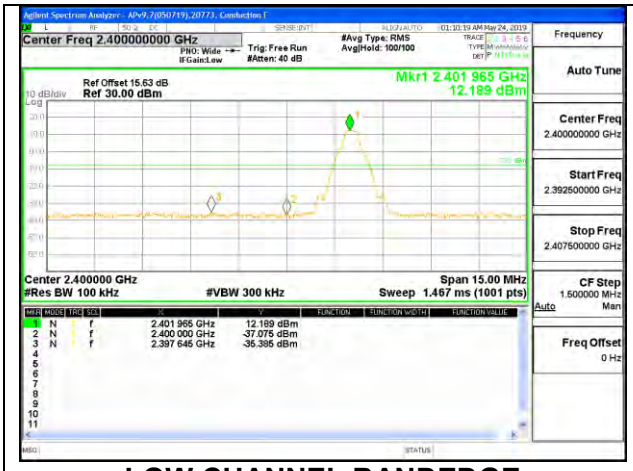
LOW BANDEDGE



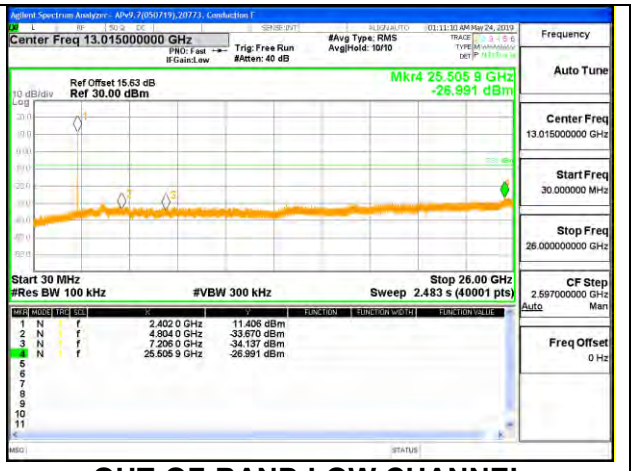
HIGH BANDEDGE

8.15.3. LOW POWER BASIC DATA RATE GFSK MODULATION

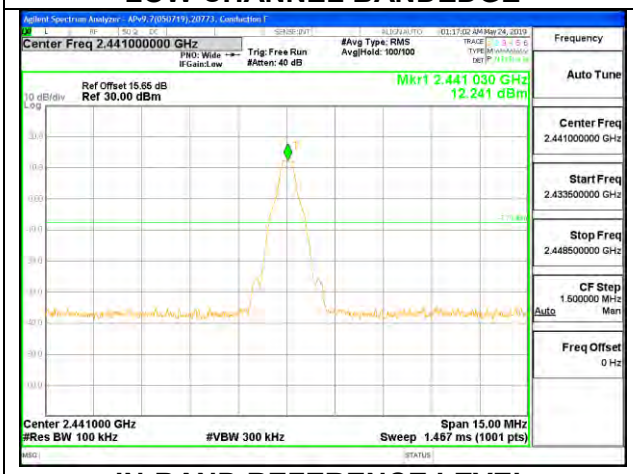
Antenna 2 SPURIOUS EMISSIONS, NON-HOPPING



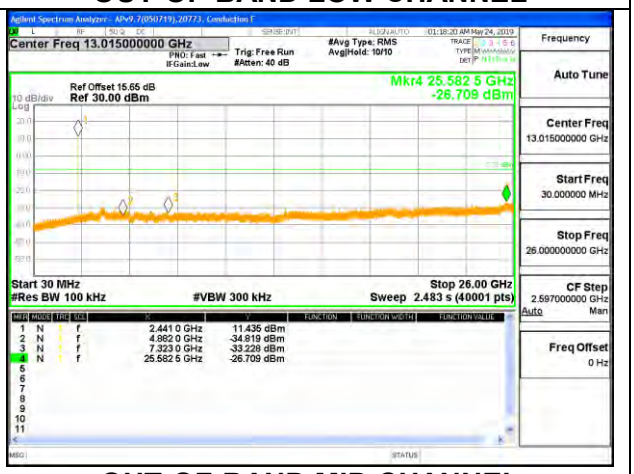
LOW CHANNEL BANDEDGE



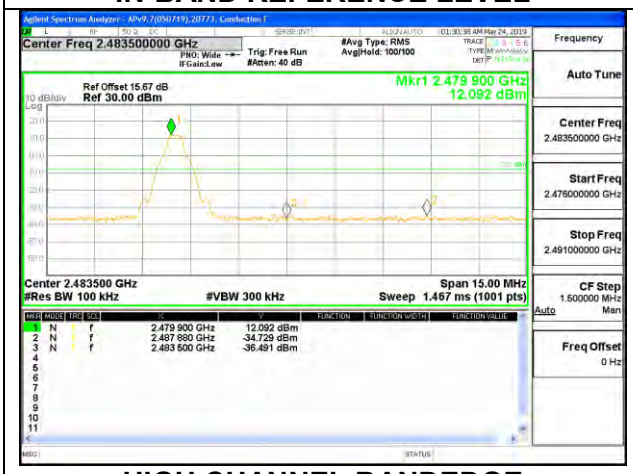
OUT-OF-BAND LOW CHANNEL



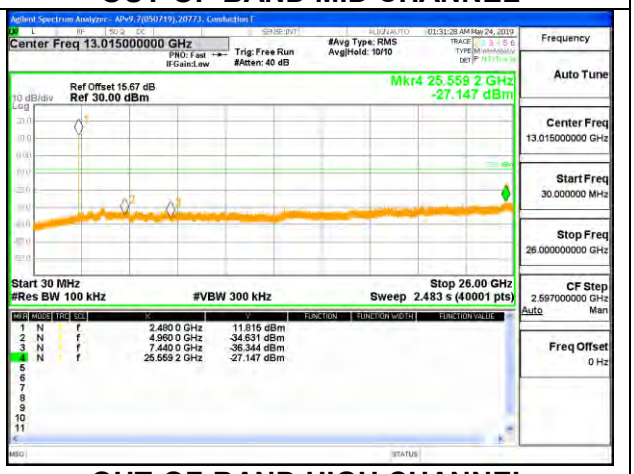
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



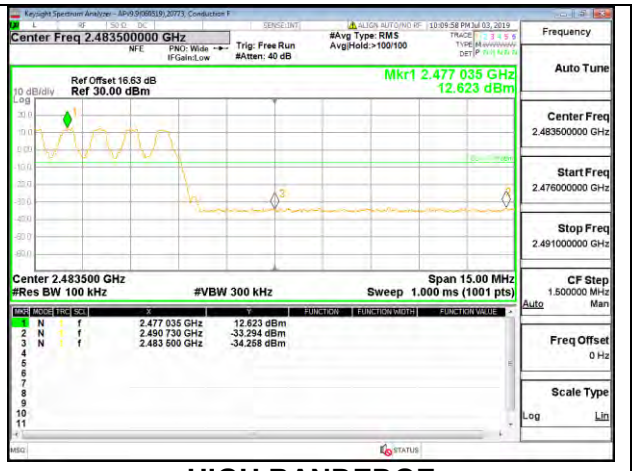
HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

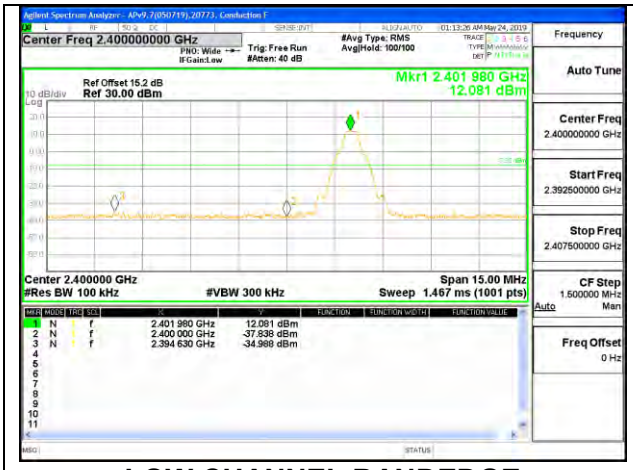
Antenna 2 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW BANDEDGE

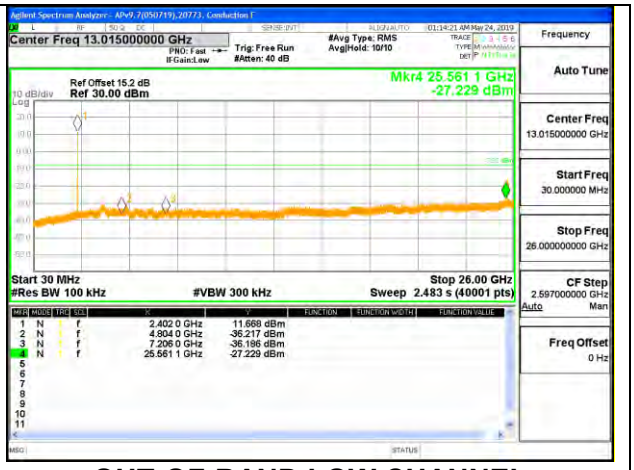


HIGH BANDEDGE

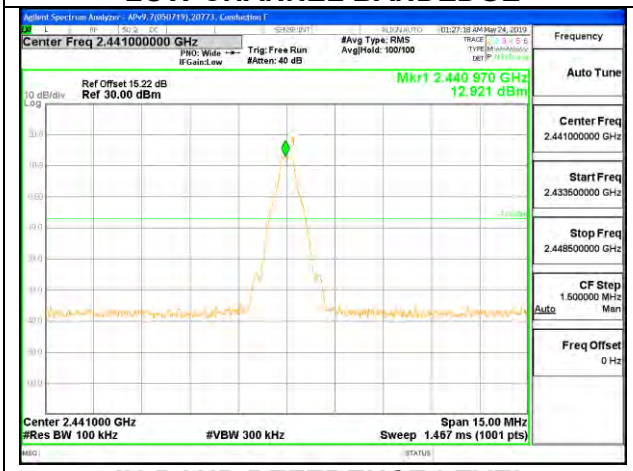
Antenna 5 SPURIOUS EMISSIONS, NON-HOPPING



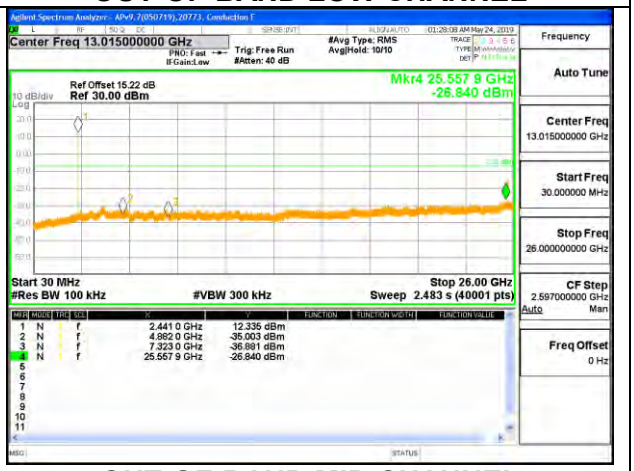
LOW CHANNEL BANDEDGE



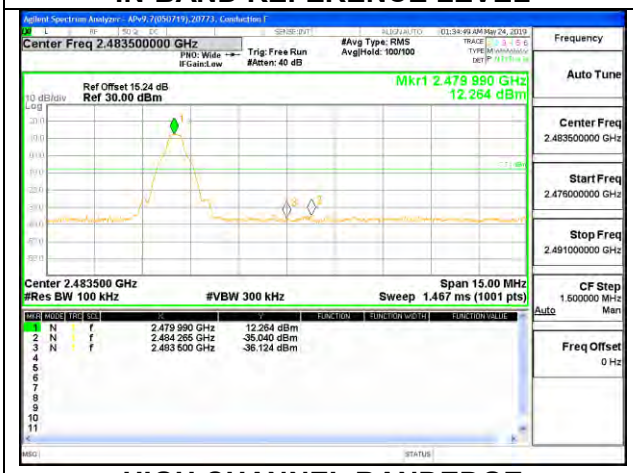
OUT-OF-BAND LOW CHANNEL



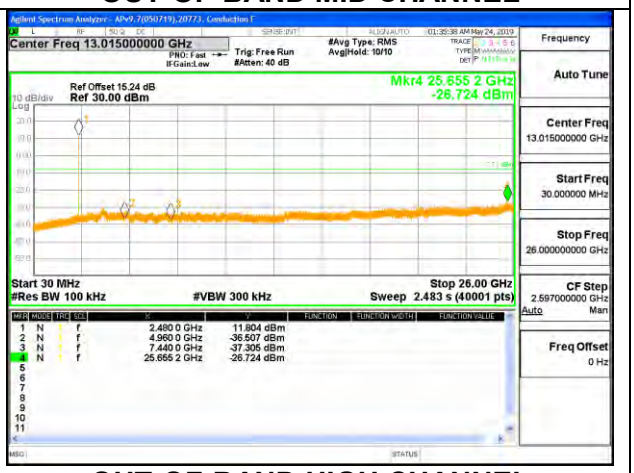
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



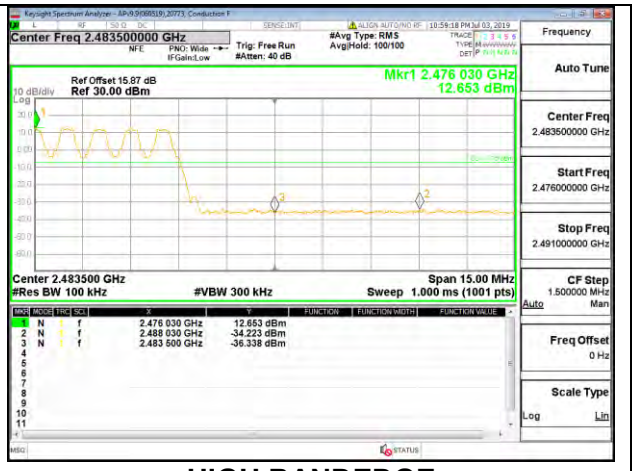
HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

Antenna 5 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

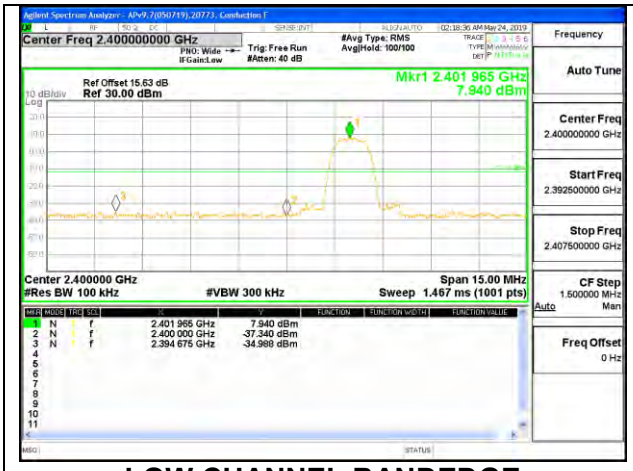
LOW BANDEDGE



HIGH BANDEDGE

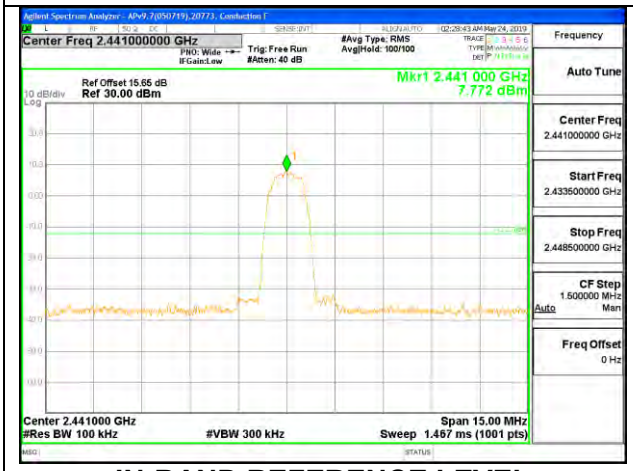
8.15.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

Antenna 2 SPURIOUS EMISSIONS, NON-HOPPING

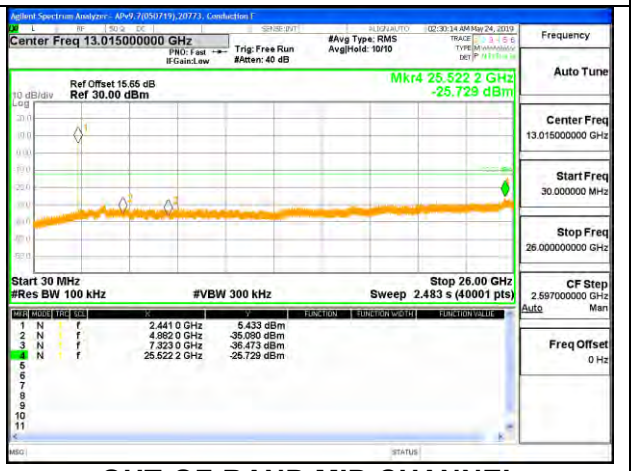


LOW CHANNEL BANDEDGE

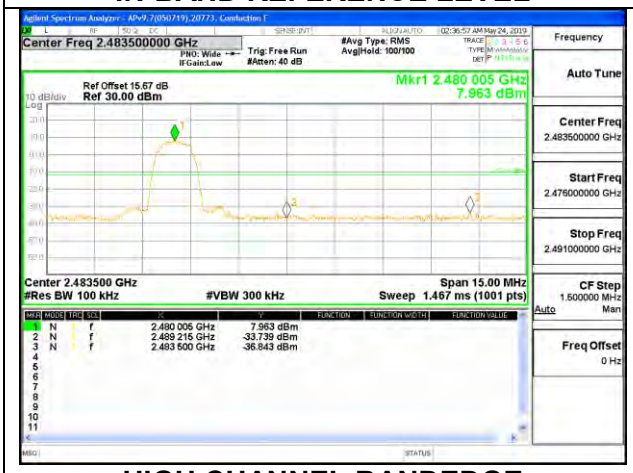
OUT-OF-BAND LOW CHANNEL



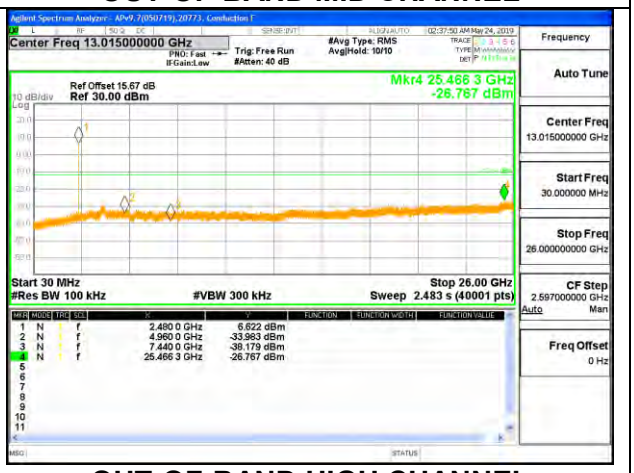
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



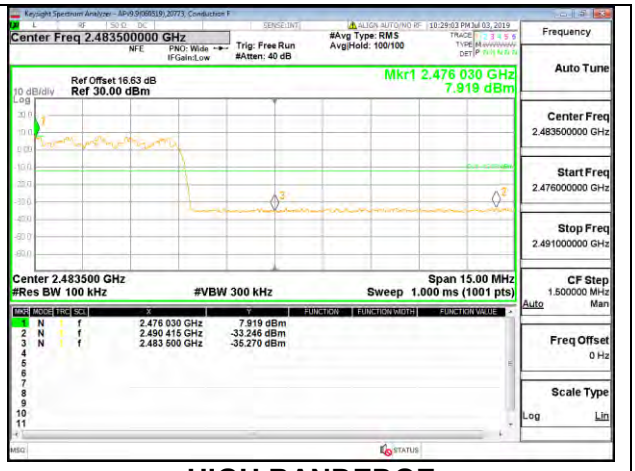
HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

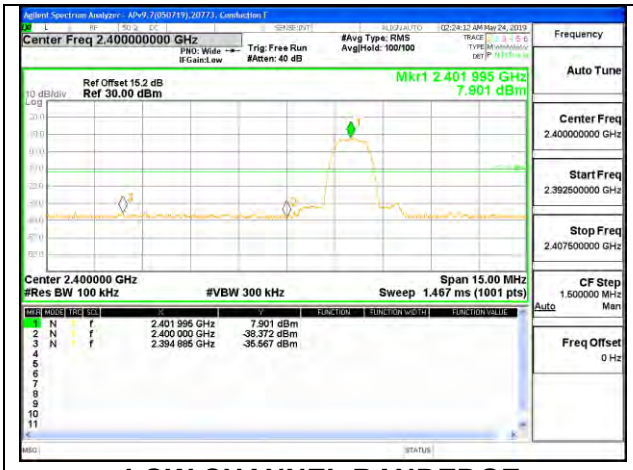
Antenna 2 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW BANDEDGE

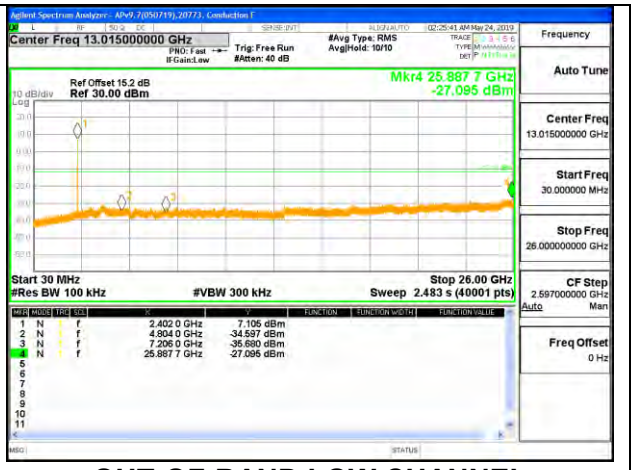


HIGH BANDEDGE

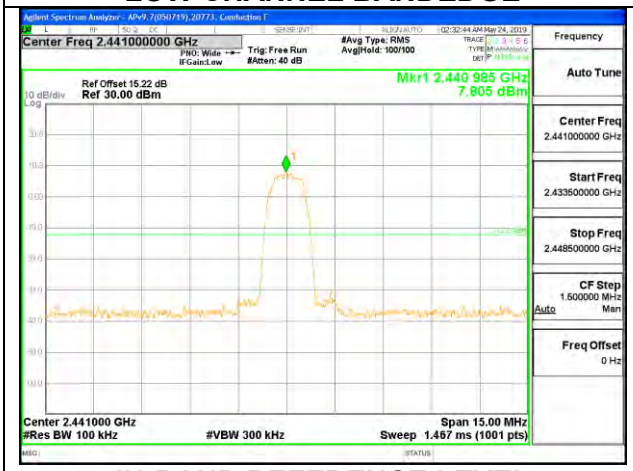
Antenna 5 SPURIOUS EMISSIONS, NON-HOPPING



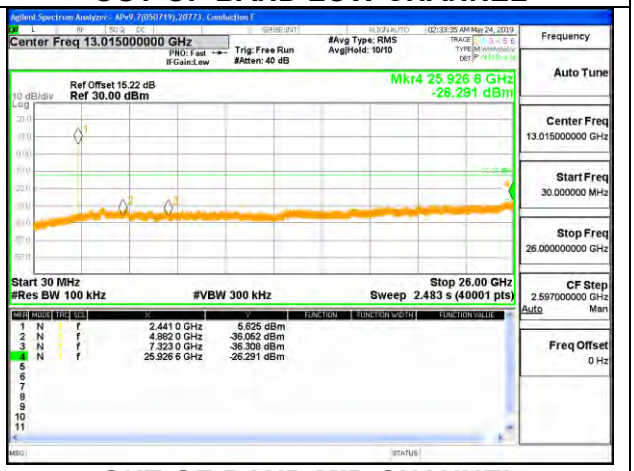
LOW CHANNEL BANDEDGE



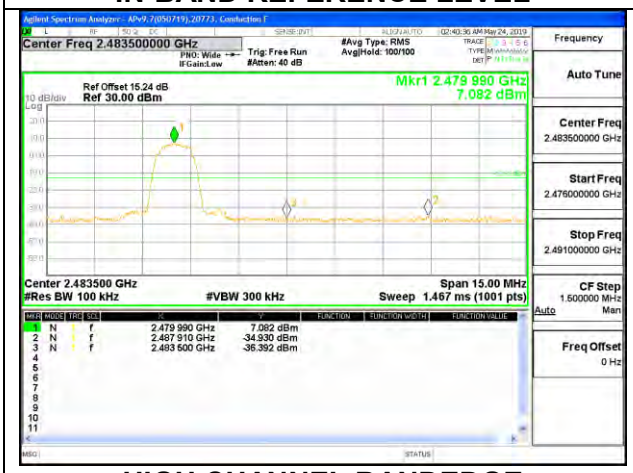
OUT-OF-BAND LOW CHANNEL



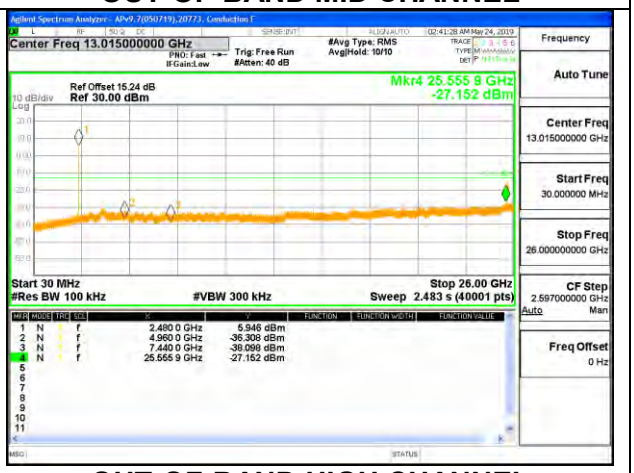
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



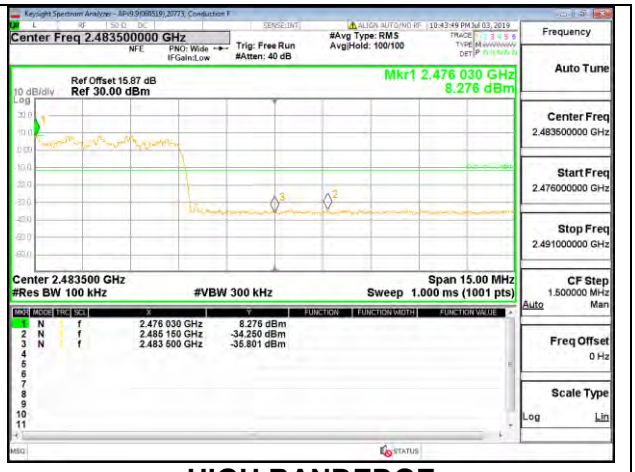
HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

Antenna 5 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW BANDEDGE



HIGH BANDEDGE

9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10.

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

TEST PROCEDURE

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

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

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

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

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

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

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

KDB 558074 D01 15.247 Meas Guidance v05r02

Use of a duty cycle correction factor (DCCF) is permitted for calculating average radiated field strength emission levels for an FHSS device in 15.247. This DCCF can be applied when the field strength limit (e.g., within a Government Restricted band) and the conditions specified in Section 15.35(c) can be satisfied. The average radiated field strength is calculated by subtracting the DCCF from the maximum radiated field strength level as determined through measurement. The maximum radiated field strength level represents the worst-case (maximum amplitude) RMS measurement of the emission(s) during continuous transmission (i.e., not including any time intervals during which the transmitter is off or is transmitting at a reduced power level). It is also acceptable to apply the DCCF to a measurement performed with a peak detector instead of the specified RMS power averaging detector. Note that Section 15.35(c) specifies that the DCCF shall represent the worst-case (greatest duty cycle) over any 100 msec transmission period.

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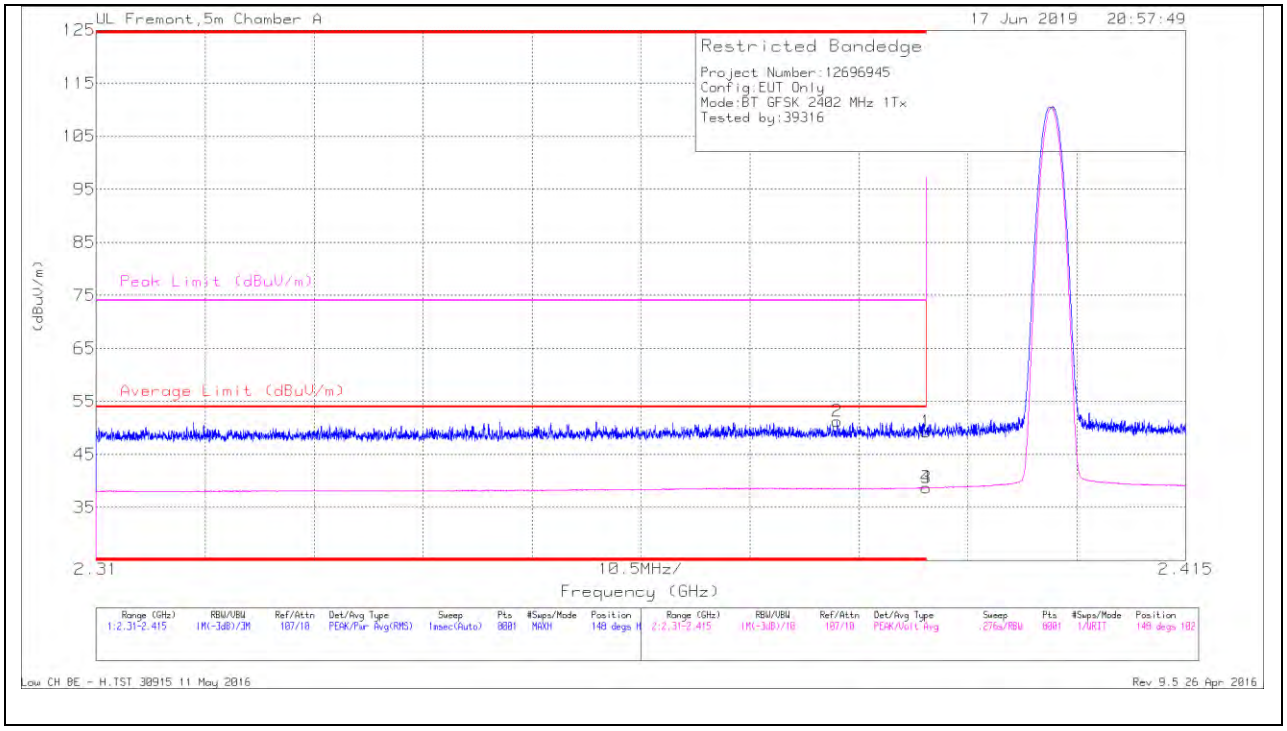
9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

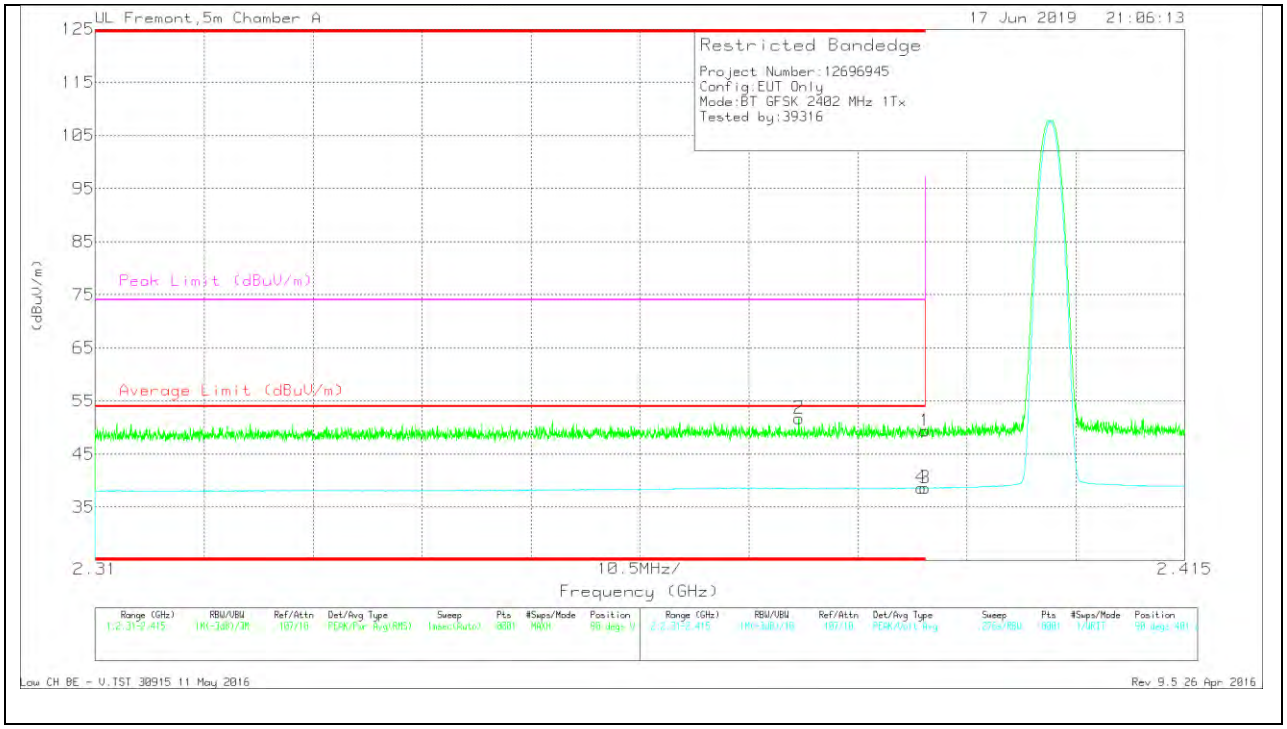
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.09	Pk	32.2	-23	49.29	-	-	74	-24.71	148	102	H
2	* 2.381	42.04	Pk	32.2	-23	51.24	-	-	74	-22.76	148	102	H
3	* 2.39	29.51	VA1T	32.2	-23	38.71	54	-15.29	-	-	148	102	H
4	* 2.39	29.51	VA1T	32.2	-23	38.71	54	-15.29	-	-	148	102	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

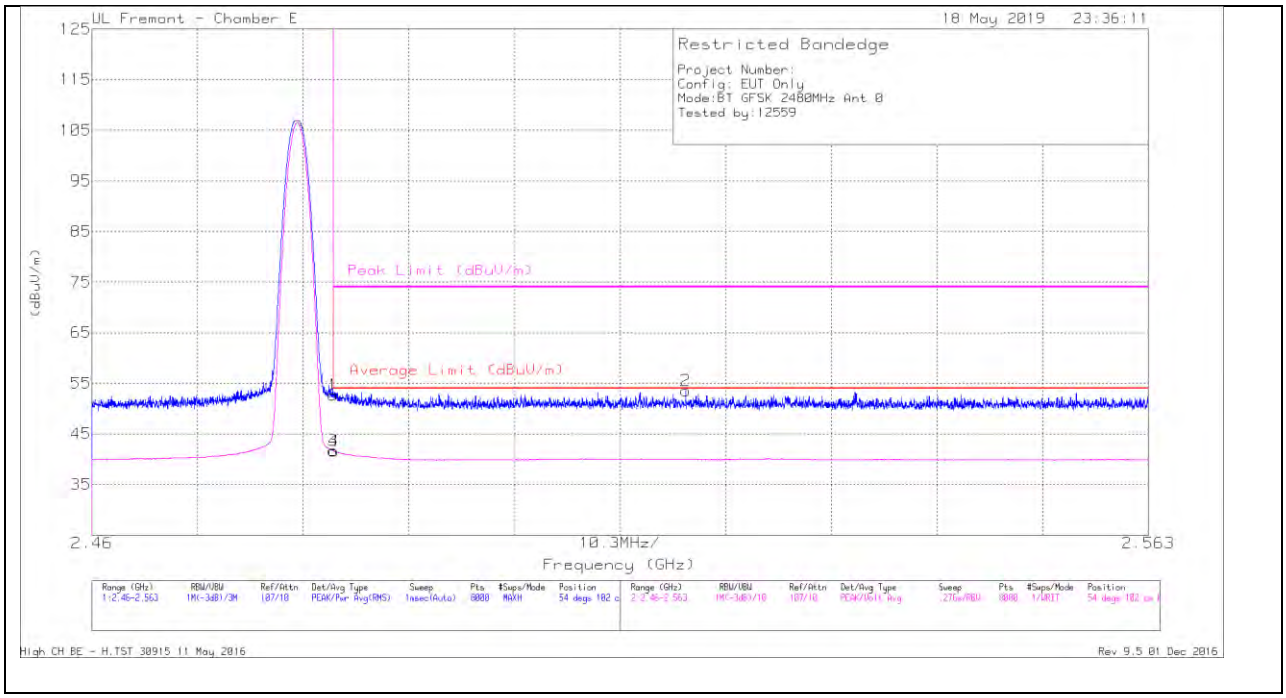


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.17	Pk	32.2	-23	49.37	-	-	74	-24.63	90	401	V
2	* 2.378	42.47	Pk	32.2	-22.9	51.77	-	-	74	-22.23	90	401	V
3	* 2.39	29.44	VA1T	32.2	-23	38.64	54	-15.36	-	-	90	401	V
4	* 2.39	29.45	VA1T	32.2	-23	38.65	54	-15.35	-	-	90	401	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

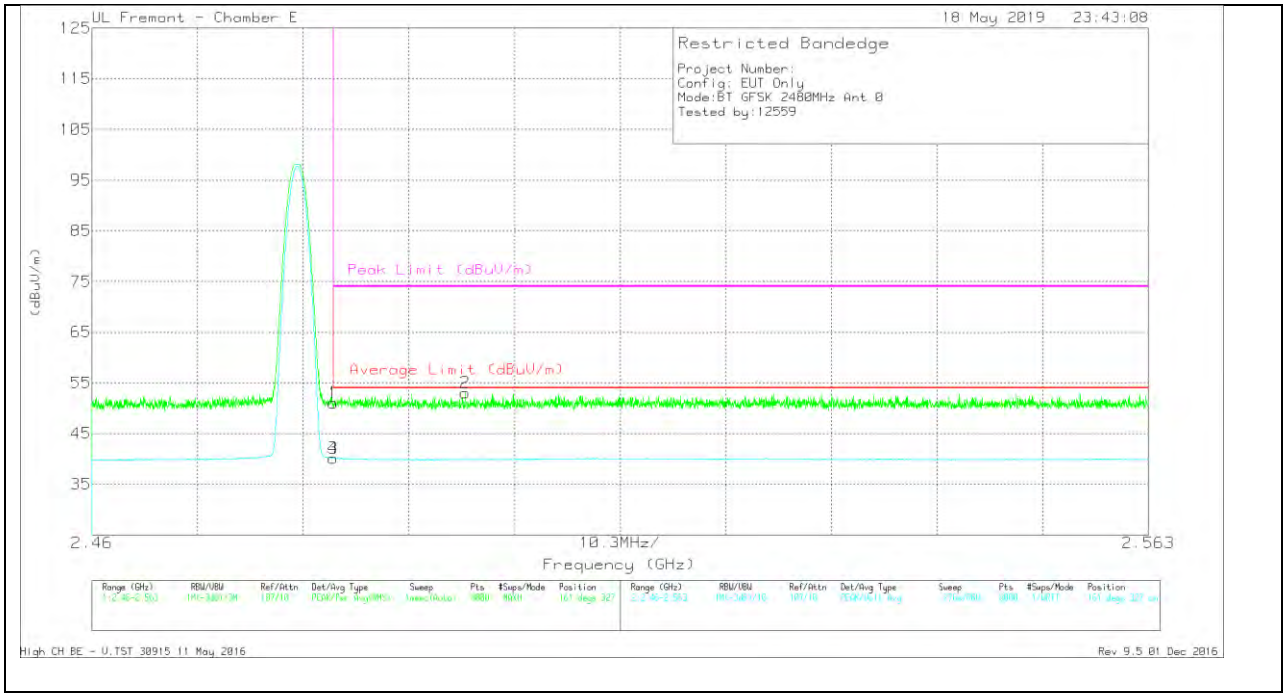
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.16	Pk	32.8	-26.3	52.66	-	-	74	-21.34	54	102	H
3	* 2.484	35.18	VA1T	32.8	-26.3	41.68	54	-12.32	-	-	54	102	H
4	* 2.484	35.08	VA1T	32.8	-26.3	41.58	54	-12.42	-	-	54	102	H
2	2.518	46.78	Pk	32.9	-26.2	53.48	-	-	74	-20.52	54	102	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
High CH BE - H.TST 30915 11 May 2016
Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.58	Pk	32.8	-26.3	51.08	-	-	74	-22.92	161	327	V
3	* 2.484	33.65	VA1T	32.8	-26.3	40.15	54	-13.85	-	-	161	327	V
4	* 2.484	33.65	VA1T	32.8	-26.3	40.15	54	-13.85	-	-	161	327	V
2	* 2.496	46.38	Pk	32.9	-26.3	52.98	-	-	74	-21.02	161	327	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
High CH BE - V.TST 30915 11 May 2016
Rev 9.5 01 Dec 2016

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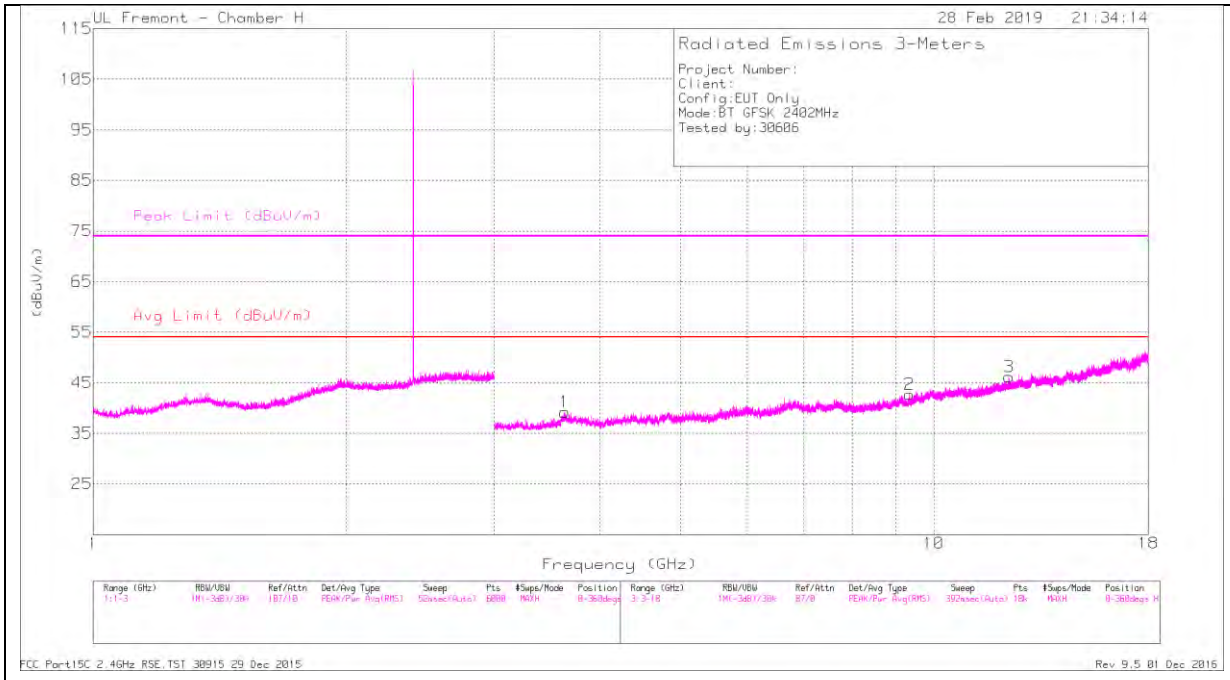
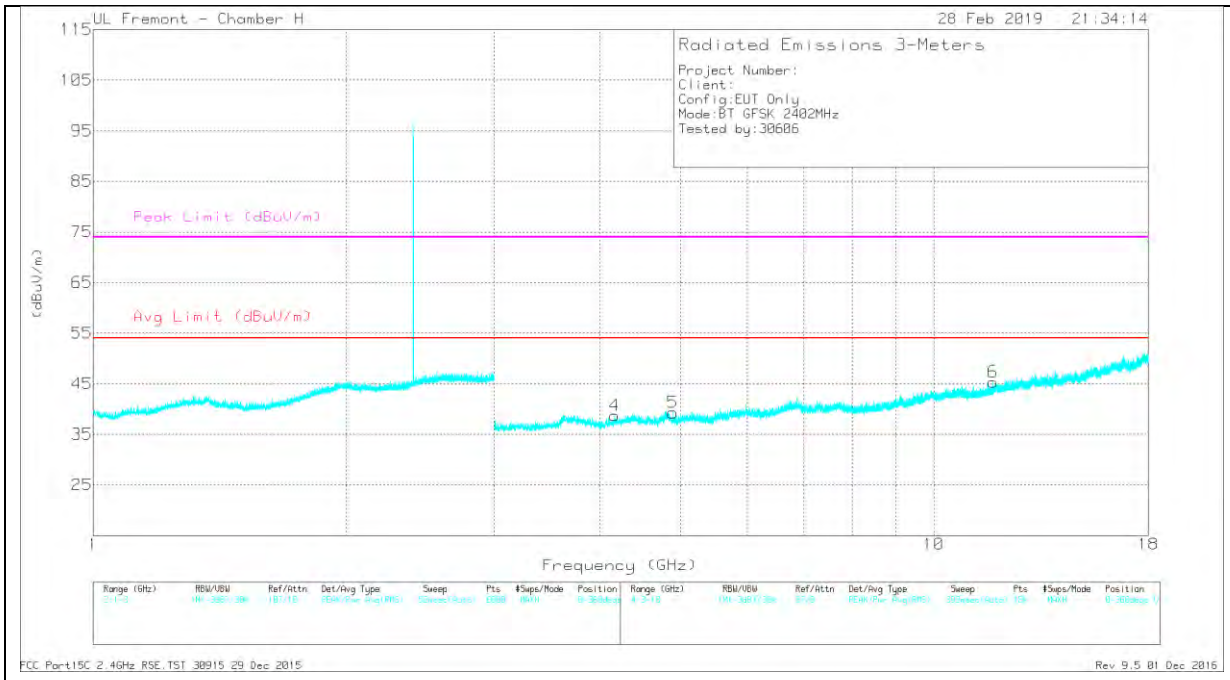
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 3.638	40.2	PKFH	33.1	-29.5	43.8	-	-	74	-30.2	49	221	H
	* 3.637	28.19	VA1T	33.1	-29.5	31.79	54	-22.21	-	-	49	221	H
2	* 9.353	35.95	PKFH	36.5	-24.9	47.55	-	-	74	-26.45	235	385	H
	* 9.35	24.34	VA1T	36.5	-25	35.84	54	-18.16	-	-	235	385	H
3	* 12.289	36.18	PKFH	39	-22.9	52.28	-	-	74	-21.72	308	331	H
	* 12.289	23.14	VA1T	39	-22.9	39.24	54	-14.76	-	-	308	331	H
4	* 4.172	41.47	PKFH	33.2	-30.7	43.97	-	-	74	-30.03	250	274	V
	* 4.169	29.28	VA1T	33.2	-30.7	31.78	54	-22.22	-	-	250	274	V
5	* 4.894	39.67	PKFH	34	-30.2	43.47	-	-	74	-30.53	34	190	V
	* 4.894	28.23	VA1T	34	-30.2	32.03	54	-21.97	-	-	34	190	V
6	* 11.757	34.94	PKFH	38.6	-23.3	50.24	-	-	74	-23.76	156	366	V
	* 11.758	23.29	VA1T	38.6	-23.3	38.59	54	-15.41	-	-	156	366	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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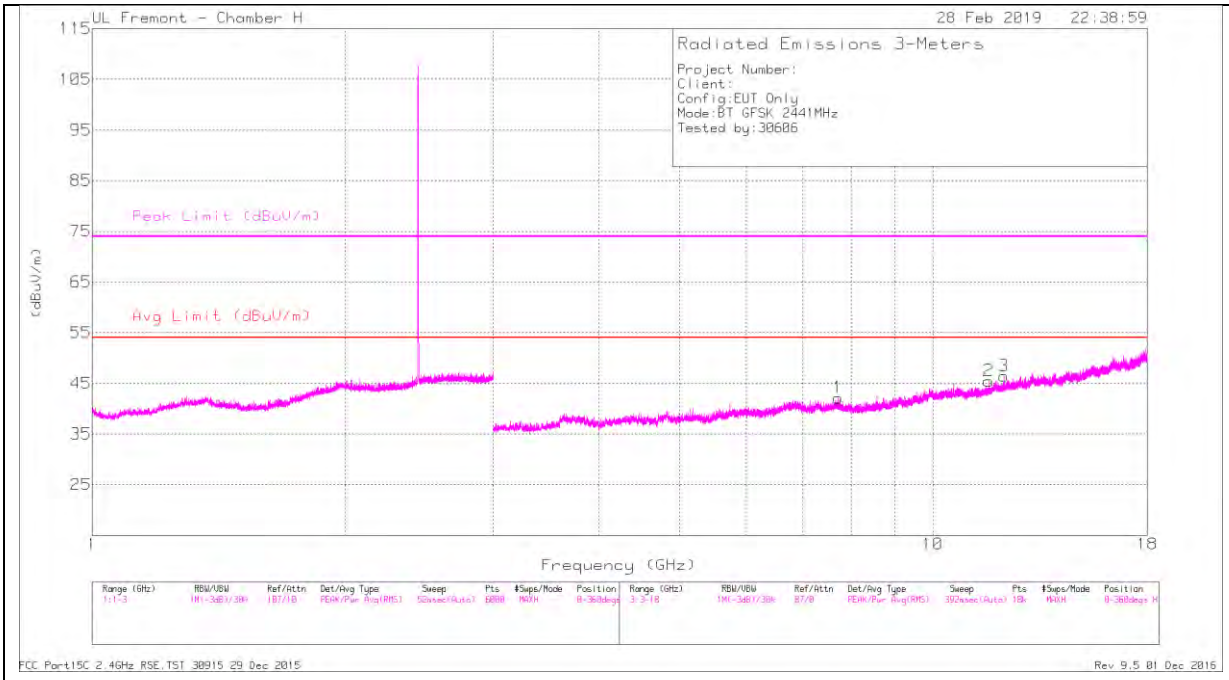
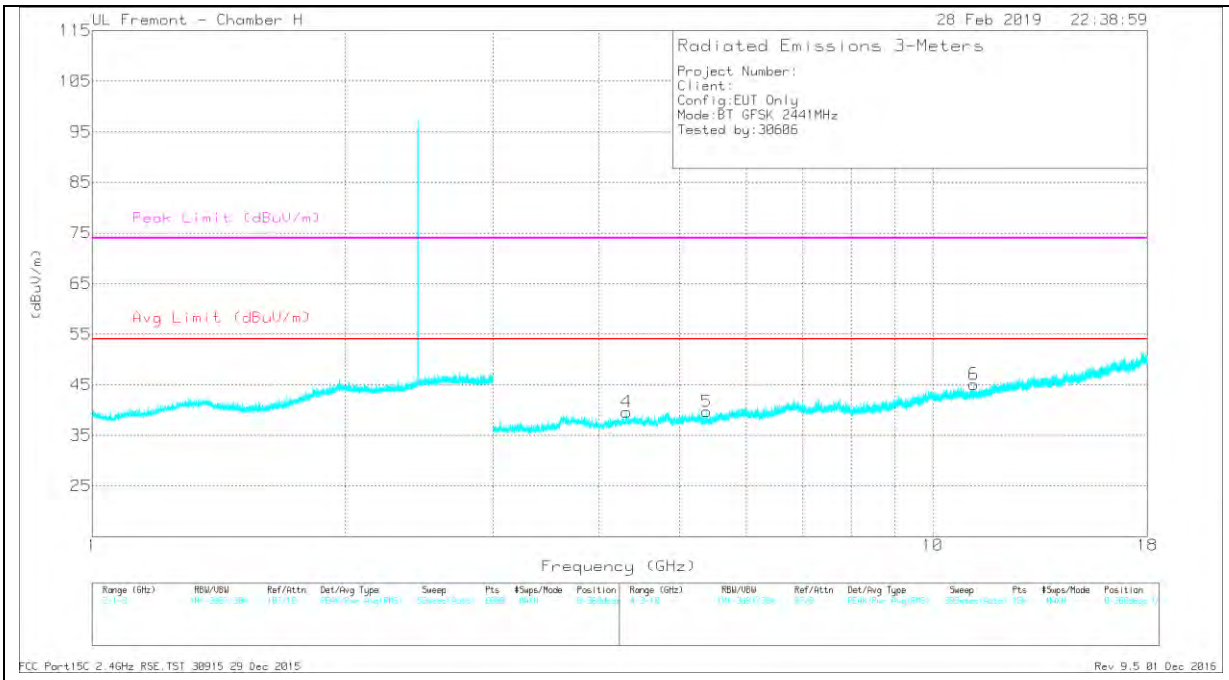
Rev 9.5 01 Dec 2016

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 7.714	37.66	PKFH	36.6	-26.5	47.76	-	-	74	-26.24	213	136	H
	* 7.712	25.45	VA1T	36.6	-26.6	35.45	54	-18.55	-	-	213	136	H
2	* 11.655	35.16	PKFH	38.5	-23.2	50.46	-	-	74	-23.54	184	308	H
	* 11.655	23.06	VA1T	38.5	-23.2	38.36	54	-15.64	-	-	184	308	H
3	* 12.147	34.9	PKFH	39	-22.9	51	-	-	74	-23	217	294	H
	* 12.149	23.02	VA1T	39	-23	39.02	54	-14.98	-	-	217	294	H
4	* 4.32	40.06	PKFH	33.8	-29.9	43.96	-	-	74	-30.04	8	196	V
	* 4.322	28.2	VA1T	33.8	-29.8	32.2	54	-21.8	-	-	8	196	V
5	* 5.385	39.49	PKFH	34.6	-29.1	44.99	-	-	74	-29.01	73	100	V
	* 5.386	27.45	VA1T	34.6	-29.1	32.95	54	-21.05	-	-	73	100	V
6	* 11.193	35.42	PKFH	37.9	-22.9	50.42	-	-	74	-23.58	39	188	V
	* 11.194	22.76	VA1T	37.9	-22.9	37.76	54	-16.24	-	-	39	188	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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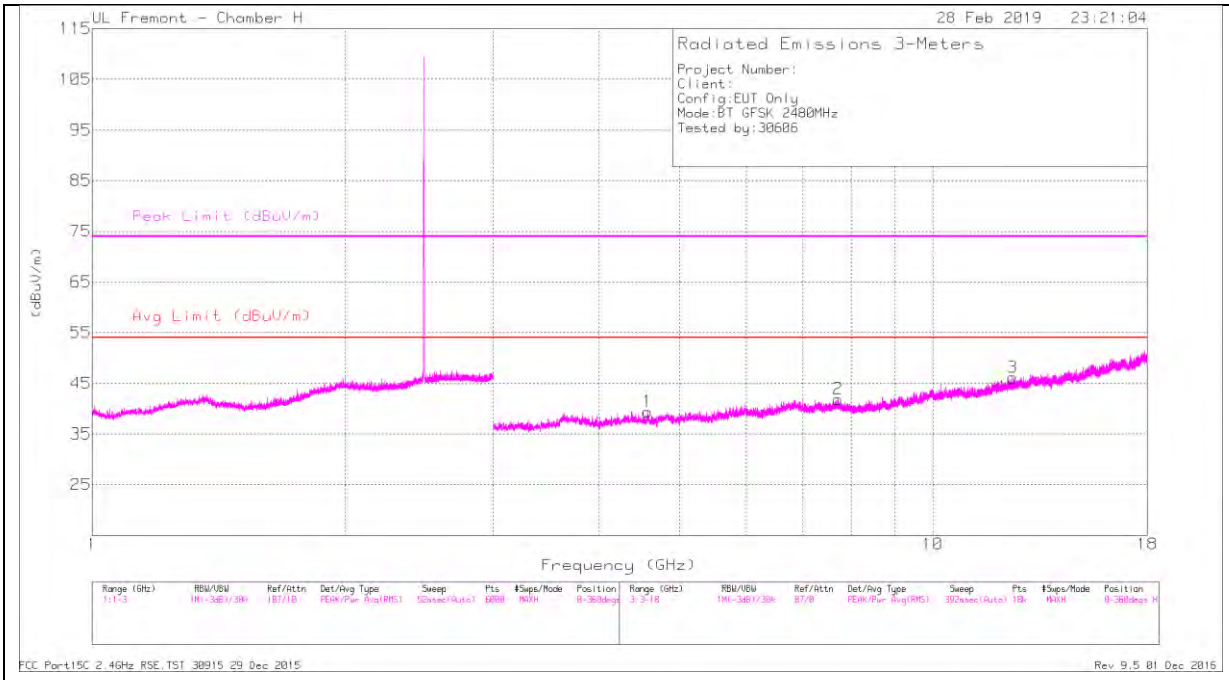
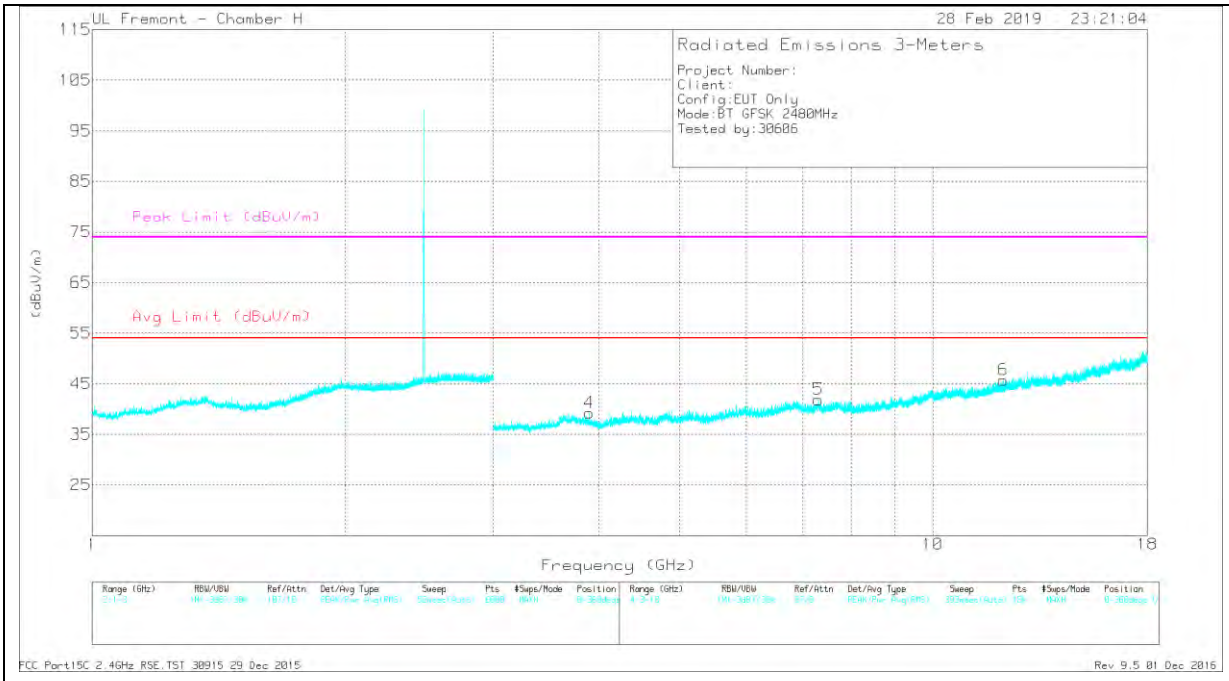
Rev 9.5 01 Dec 2016

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/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	* 4.578	40.49	PKFH	34.1	-30.2	44.39	-	-	74	-29.61	297	135	H
	* 4.577	28.89	VA1T	34.1	-30.2	32.79	54	-21.21	-	-	297	135	H
2	* 7.717	37.69	PKFH	36.6	-26.4	47.89	-	-	74	-26.11	130	400	H
	* 7.715	25.43	VA1T	36.6	-26.5	35.53	54	-18.47	-	-	130	400	H
3	* 12.446	35.41	PKFH	39.2	-23.6	51.01	-	-	74	-22.99	347	328	H
	* 12.444	23.67	VA1T	39.1	-23.6	39.17	54	-14.83	-	-	347	328	H
4	* 3.901	40.59	PKFH	33.3	-30.2	43.69	-	-	74	-30.31	264	232	V
	* 3.901	28.83	VA1T	33.3	-30.2	31.93	54	-22.07	-	-	264	232	V
5	* 7.309	37.18	PKFH	36.4	-26.4	47.18	-	-	74	-26.82	336	184	V
	* 7.307	25.59	VA1T	36.4	-26.5	35.49	54	-18.51	-	-	336	184	V
6	* 12.128	35.06	PKFH	39	-23	51.06	-	-	74	-22.94	234	128	V
	* 12.127	23.05	VA1T	39	-23	39.05	54	-14.95	-	-	234	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
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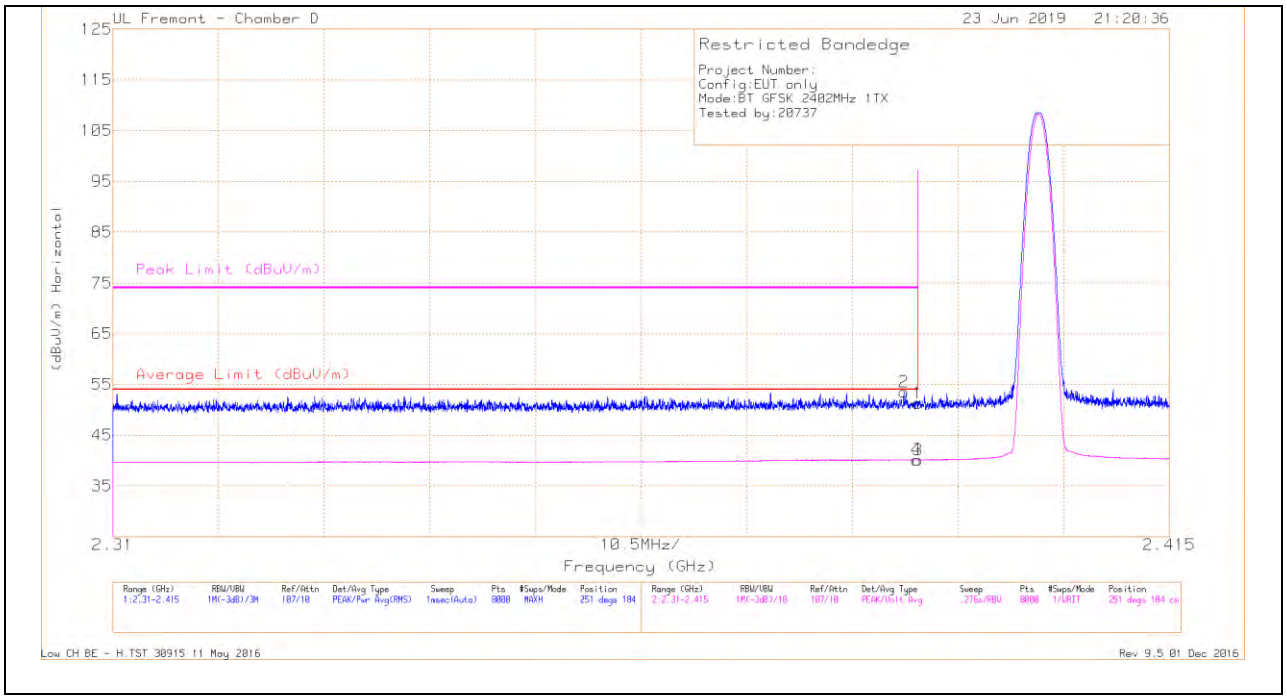
Rev 9.5 01 Dec 2016

Antenna 5

BANDEDGE (LOW CHANNEL)

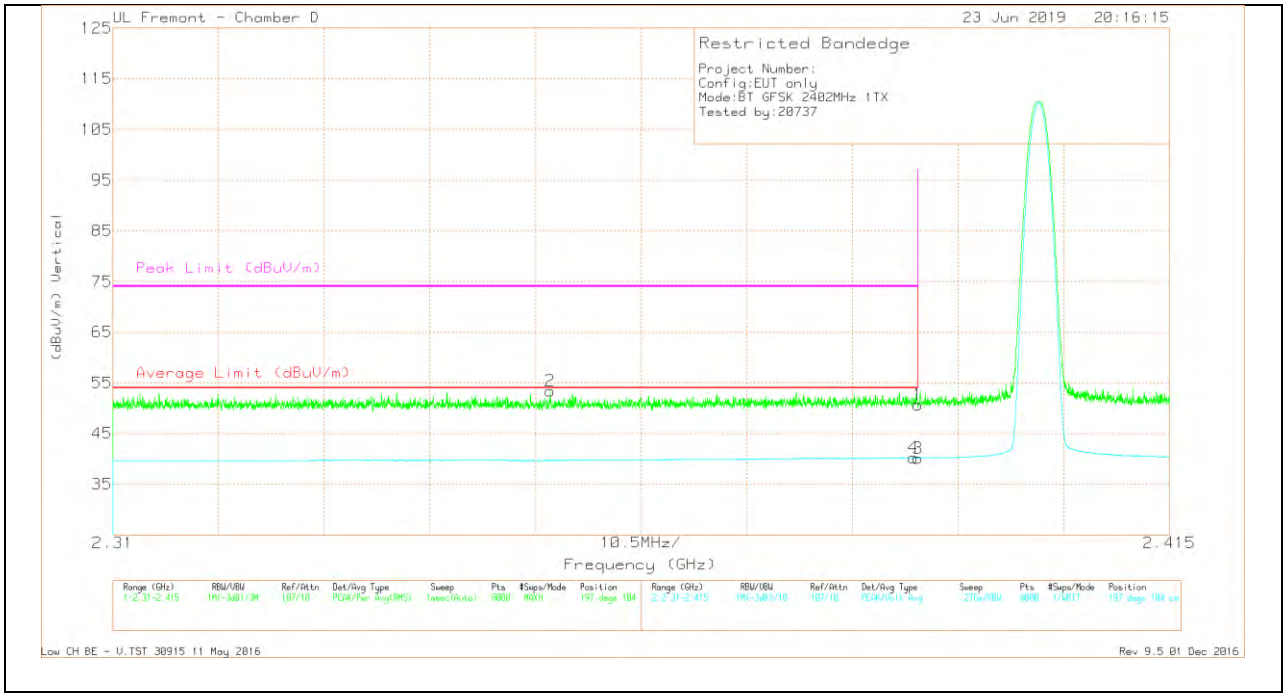
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.389	42.07	Pk	32	-20.6	53.47	-	-	74	-20.53	251	184	H
1	* 2.39	39.89	Pk	32	-20.6	51.29	-	-	74	-22.71	251	184	H
3	* 2.39	28.72	VA1T	32	-20.6	40.12	54	-13.88	-	-	251	184	H
4	* 2.39	28.77	VA1T	32	-20.6	40.17	54	-13.83	-	-	251	184	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

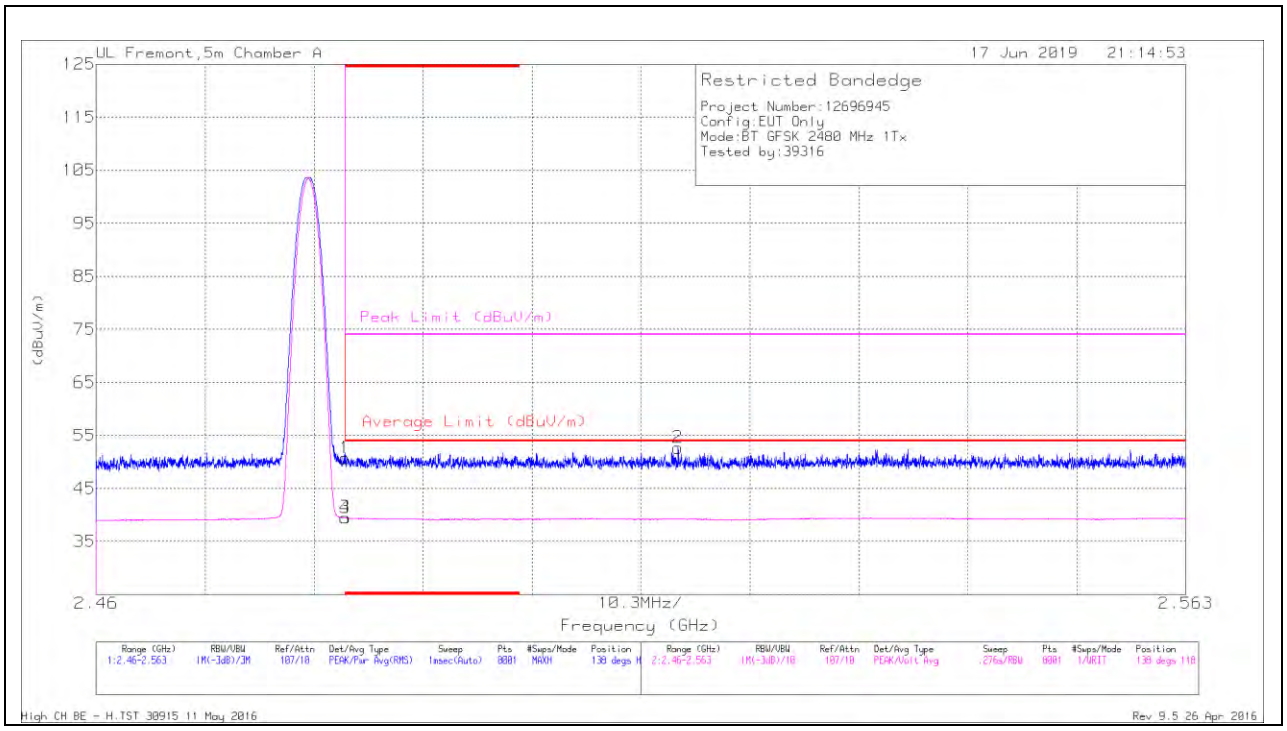


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.26	Pk	32	-20.6	50.66	-	-	74	-23.34	197	104	V
2	* 2.353	42.35	Pk	31.7	-20.7	53.35	-	-	74	-20.65	197	104	V
3	* 2.39	28.76	VA1T	32	-20.6	40.16	54	-13.84	-	-	197	104	V
4	* 2.39	28.82	VA1T	32	-20.6	40.22	54	-13.78	-	-	197	104	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

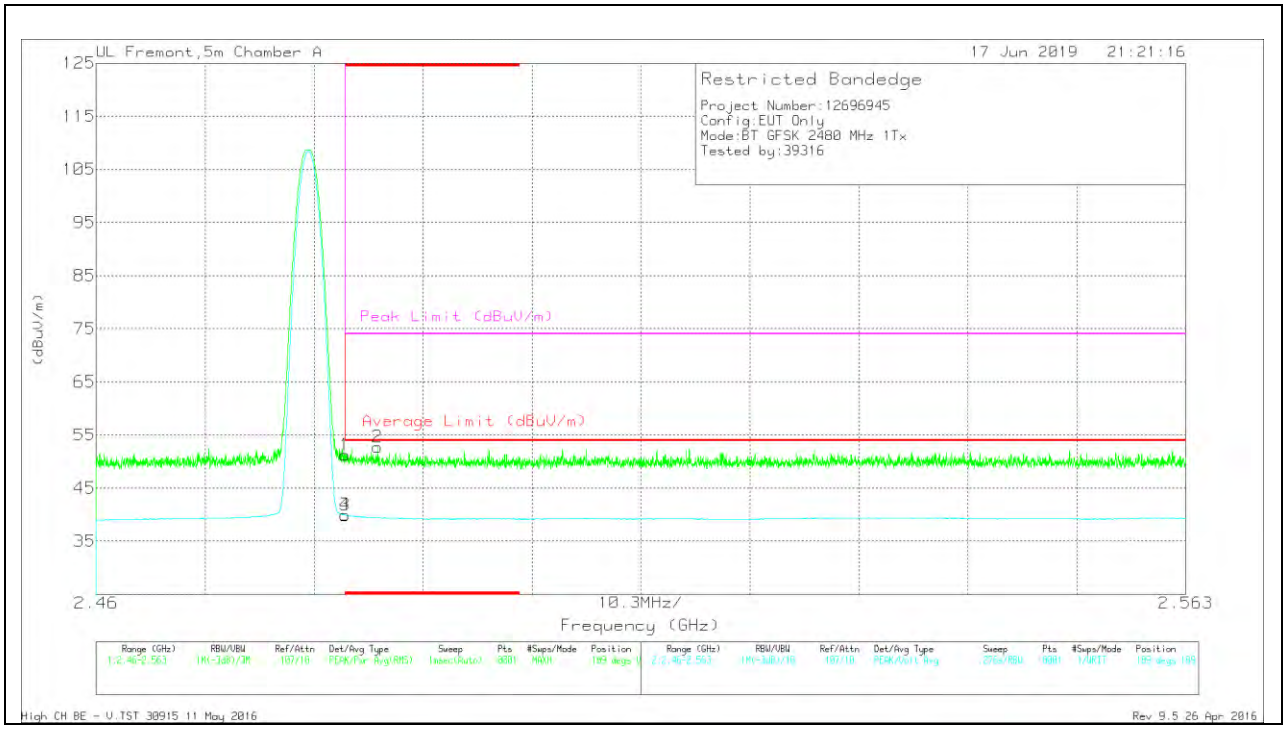
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.79	Pk	32.6	-22.7	50.69	-	-	74	-23.31	138	118	H
3	* 2.484	29.61	VA1T	32.6	-22.7	39.51	54	-14.49	-	-	138	118	H
4	* 2.484	29.59	VA1T	32.6	-22.7	39.49	54	-14.51	-	-	138	118	H
2	2.515	42.66	Pk	32.6	-22.6	52.66	-	-	74	-21.34	138	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

VERTICAL RESULT

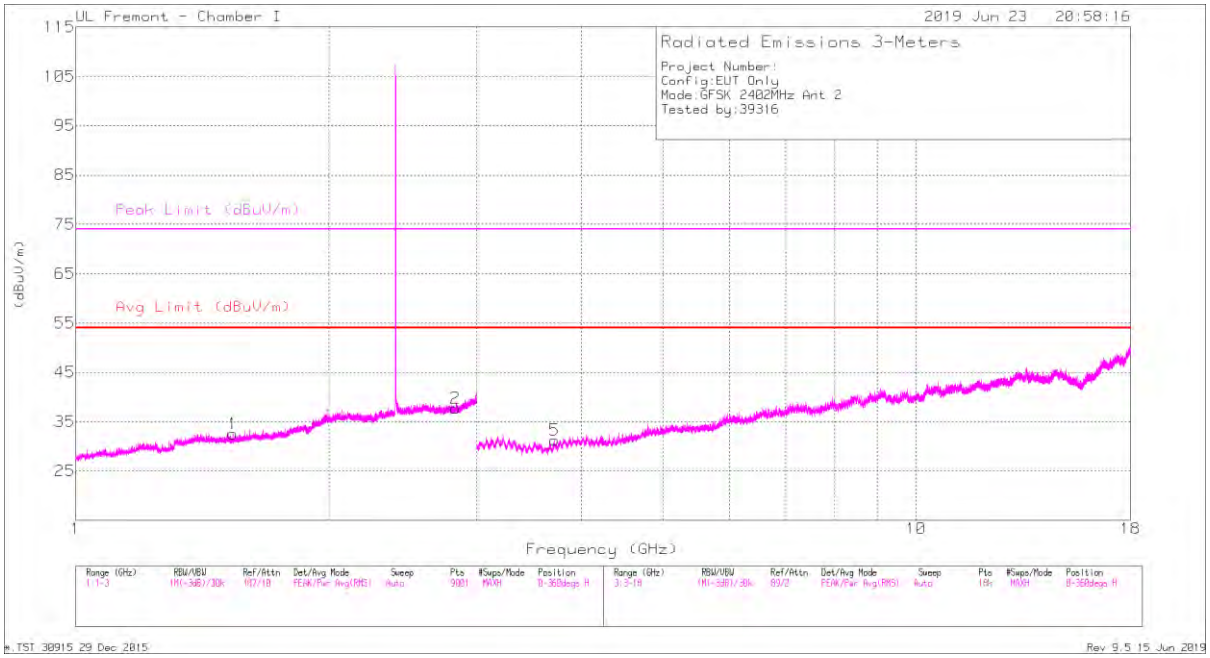


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.32	Pk	32.6	-22.7	51.22	-	-	74	-22.78	189	189	V
3	* 2.484	30.02	VA1T	32.6	-22.7	39.92	54	-14.08	-	-	189	189	V
4	* 2.484	30.01	VA1T	32.6	-22.7	39.91	54	-14.09	-	-	189	189	V
2	* 2.487	42.82	Pk	32.6	-22.7	52.72	-	-	74	-21.28	189	189	V

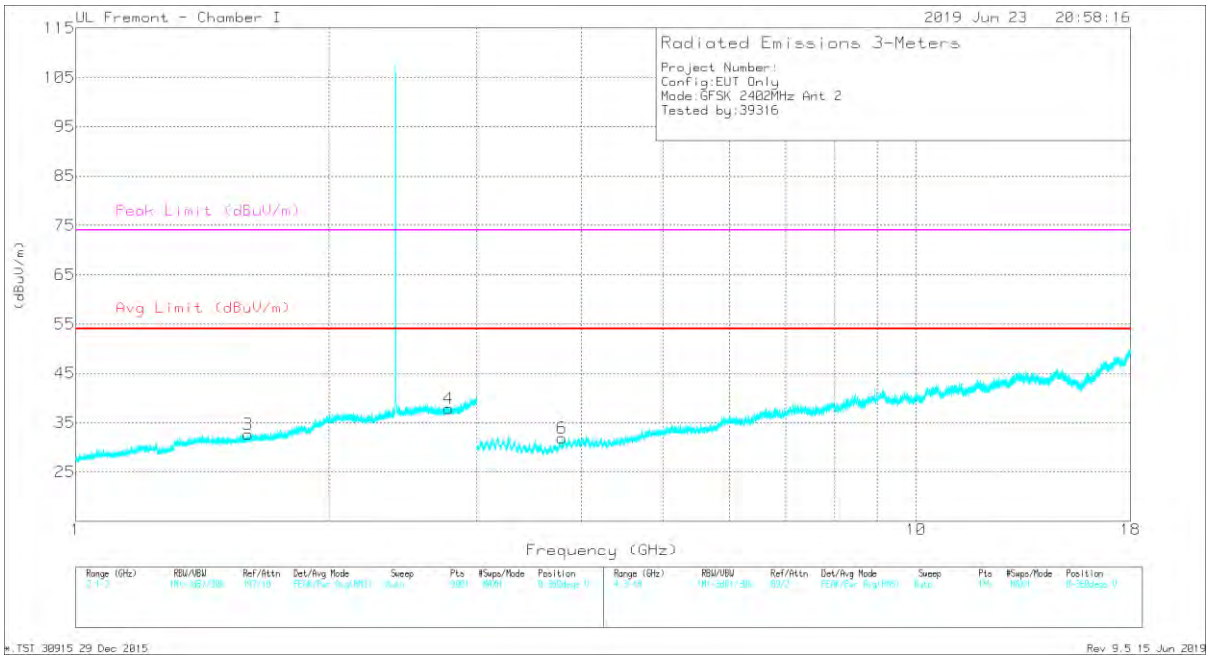
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



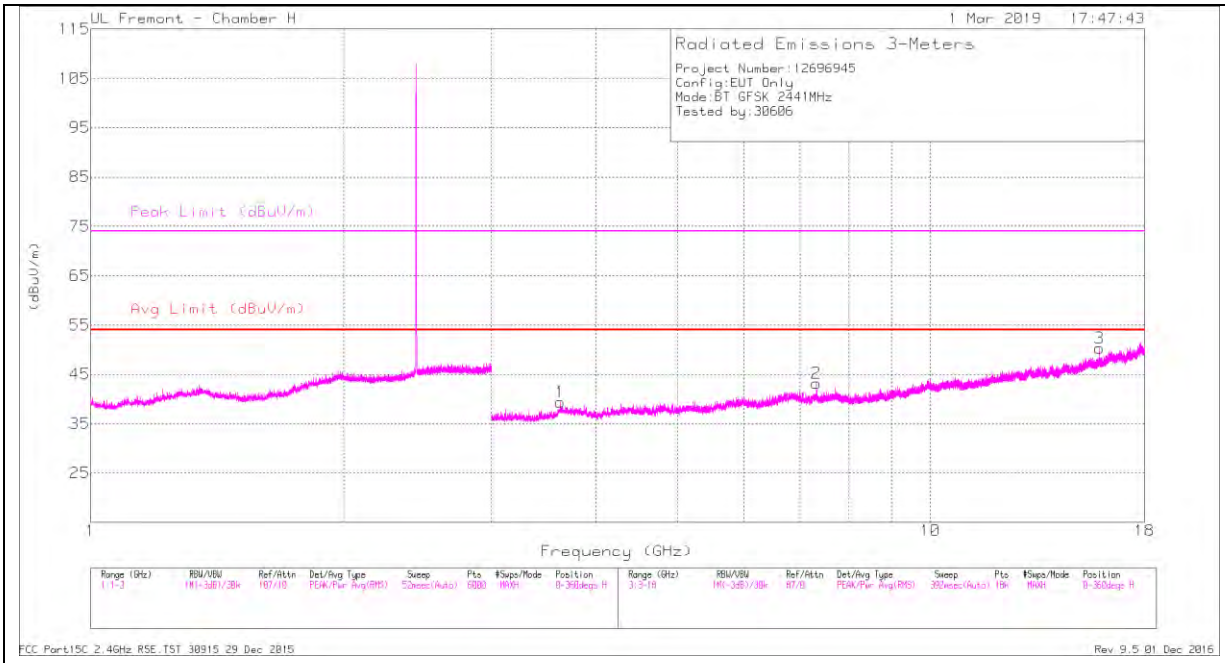
VERTICAL

RADIATED EMISSIONS

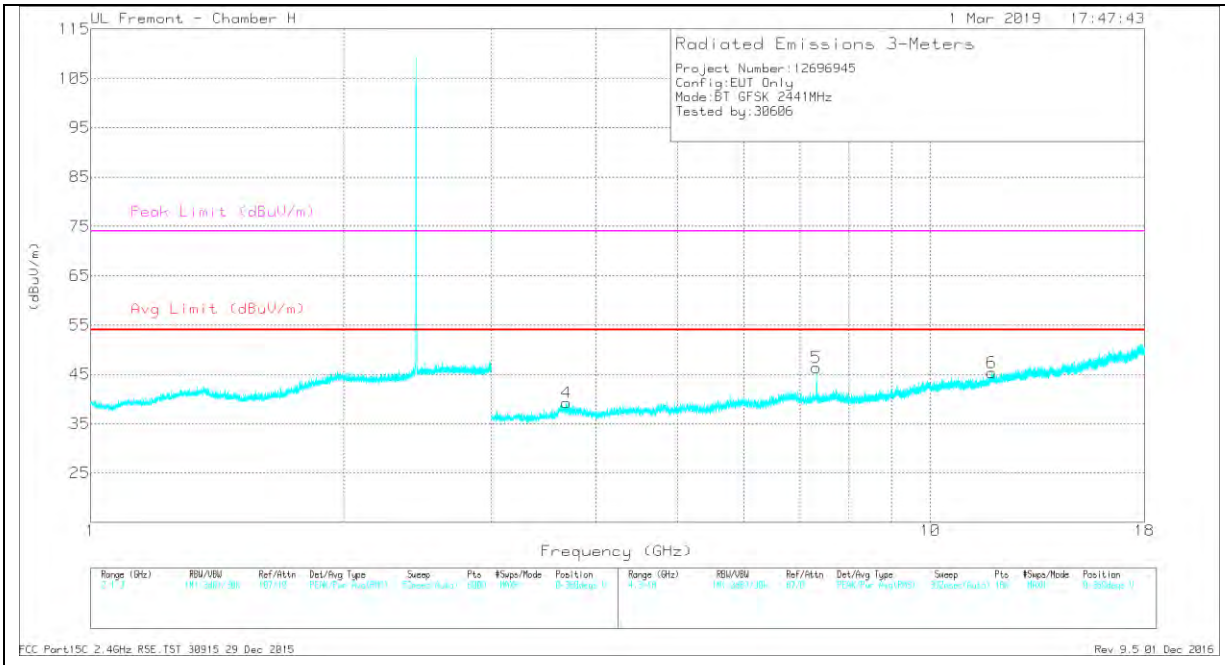
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 0 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.53831	36.42	PKFH	24.9	-20.7	40.62	-	-	74	-33.38	0	196	H
	1.54079	22.43	VA1T	24.9	-20.7	26.63	54	-27.37	-	-	0	196	H
2	2.8338	35.52	PKFH	29.4	-19.4	45.52	-	-	74	-28.48	0	196	H
	2.83395	22.82	VA1T	29.4	-19.4	32.82	54	-21.18	-	-	0	196	H
3	1.60276	35.65	PKFH	25.2	-20.4	40.45	-	-	74	-33.55	0	196	V
	1.60386	22.22	VA1T	25.2	-20.4	27.02	54	-26.98	-	-	0	196	V
4	2.77648	36.01	PKFH	29.3	-19.6	45.71	-	-	74	-28.29	0	196	V
	2.77976	23.03	VA1T	29.3	-19.7	32.63	54	-21.37	-	-	0	196	V
5	3.71292	37.89	PKFH	30.5	-29.6	38.79	-	-	74	-35.21	0	102	H
	3.71513	24.64	VA1T	30.5	-29.6	25.54	54	-28.46	-	-	0	102	H
6	3.79276	37.4	PKFH	30.9	-28.9	39.4	-	-	74	-34.6	0	197	V
	3.78999	23.46	VA1T	30.9	-28.9	25.46	54	-28.54	-	-	0	197	V

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



HORIZONTAL



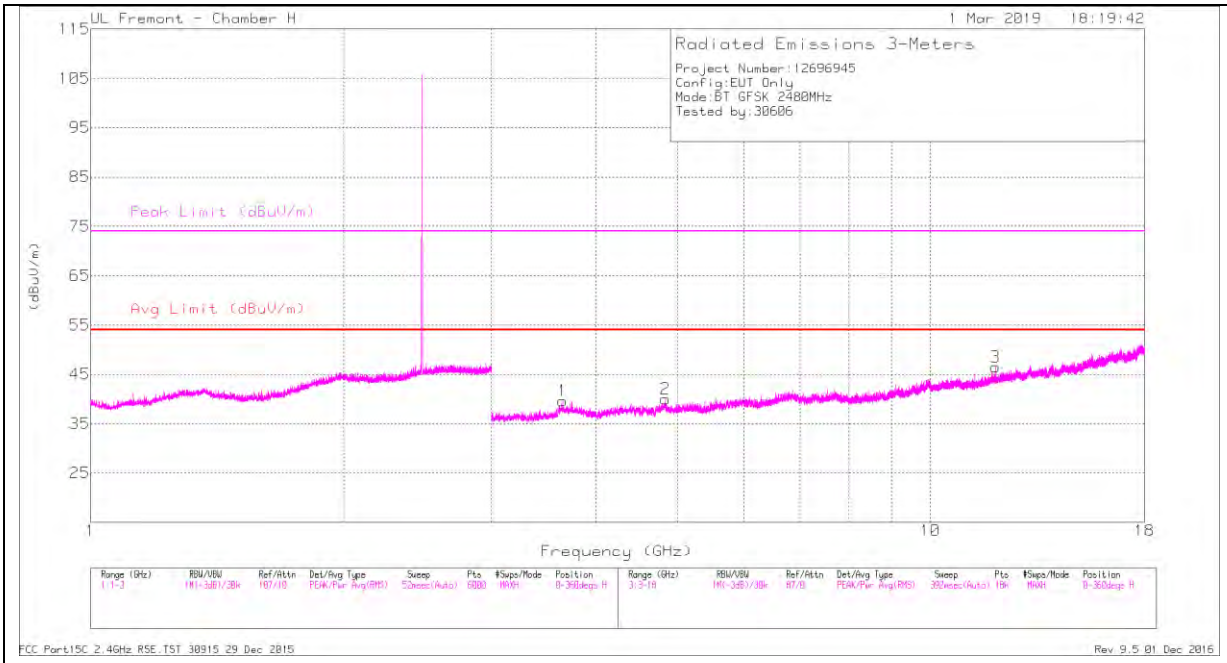
VERTICAL

RADIATED EMISSIONS

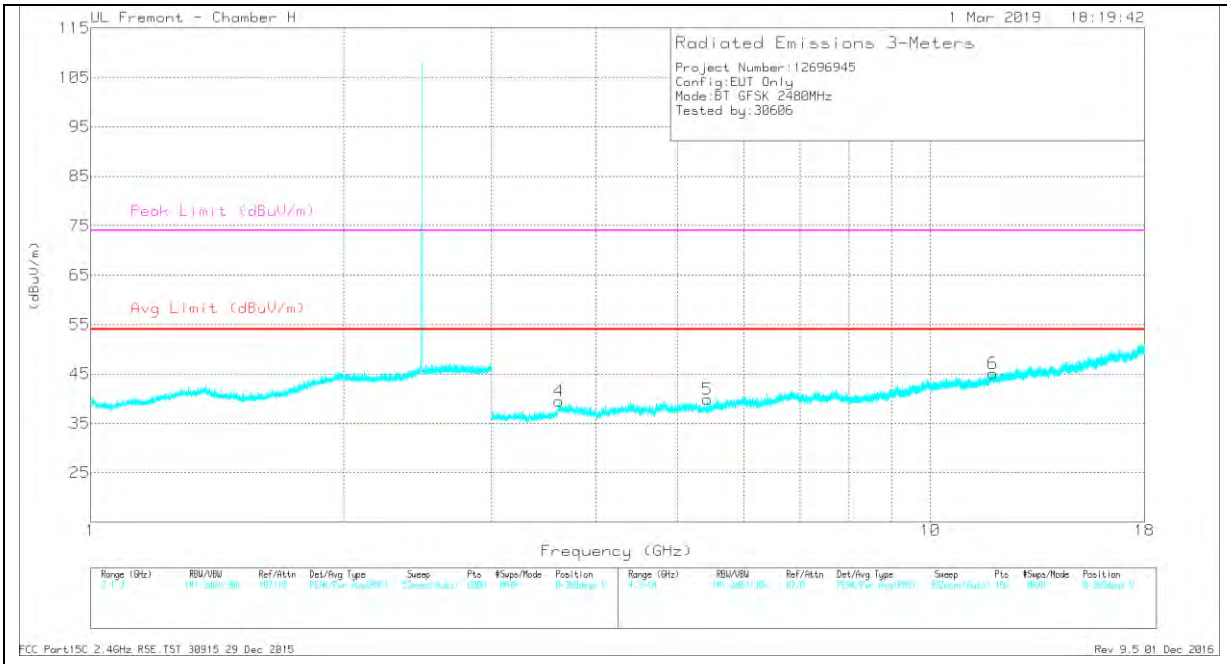
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.625	41.03	PKFH	33.1	-29.6	44.53	-	-	74	-29.47	73	339	H
	* 3.626	28.19	VA1T	33.1	-29.6	31.69	54	-22.31	-	-	73	339	H
2	* 7.324	37.24	PKFH	36.4	-26.6	47.04	-	-	74	-26.96	317	347	H
	* 7.323	25.51	VA1T	36.4	-26.6	35.31	54	-18.69	-	-	317	347	H
3	* 15.918	34.56	PKFH	40.7	-20.9	54.36	-	-	74	-19.64	5	234	H
	* 15.917	22.58	VA1T	40.7	-20.9	42.38	54	-11.62	-	-	5	234	H
4	* 3.686	40.22	PKFH	33.1	-30.2	43.12	-	-	74	-30.88	82	219	V
	* 3.687	28.67	VA1T	33.1	-30.2	31.57	54	-22.43	-	-	82	219	V
5	* 7.322	39.22	PKFH	36.4	-26.5	49.12	-	-	74	-24.88	133	128	V
	* 7.323	28.26	VA1T	36.4	-26.6	38.06	54	-15.94	-	-	133	128	V
6	* 11.843	35.81	PKFH	38.7	-22.9	51.61	-	-	74	-22.39	95	293	V
	* 11.841	23.03	VA1T	38.7	-22.9	38.83	54	-15.17	-	-	95	293	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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fltr/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	* 3.649	39.52	PKFH	33.2	-29.7	43.02	-	-	74	-30.98	273	284	H
	* 3.648	28.05	VA1T	33.2	-29.6	31.65	54	-22.35	-	-	273	284	H
2	* 4.834	41.2	PKFH	34	-30.4	44.8	-	-	74	-29.2	141	131	H
	* 4.832	29.04	VA1T	34.1	-30.4	32.74	54	-21.26	-	-	141	131	H
3	* 11.969	34.6	PKFH	38.8	-23.2	50.2	-	-	74	-23.8	91	234	H
	* 11.968	23.07	VA1T	38.8	-23.1	38.77	54	-15.23	-	-	91	234	H
4	* 3.614	39.93	PKFH	33.1	-29.7	43.33	-	-	74	-30.67	302	213	V
	* 3.615	28.09	VA1T	33.1	-29.7	31.49	54	-22.51	-	-	302	213	V
5	* 5.428	38.9	PKFH	34.6	-29.1	44.4	-	-	74	-29.6	5	148	V
	* 5.428	27.29	VA1T	34.6	-29.1	32.79	54	-21.21	-	-	5	148	V
6	* 11.88	35.53	PKFH	38.7	-22.7	51.53	-	-	74	-22.47	47	398	V
	* 11.879	23.17	VA1T	38.7	-22.7	39.17	54	-14.83	-	-	47	398	V

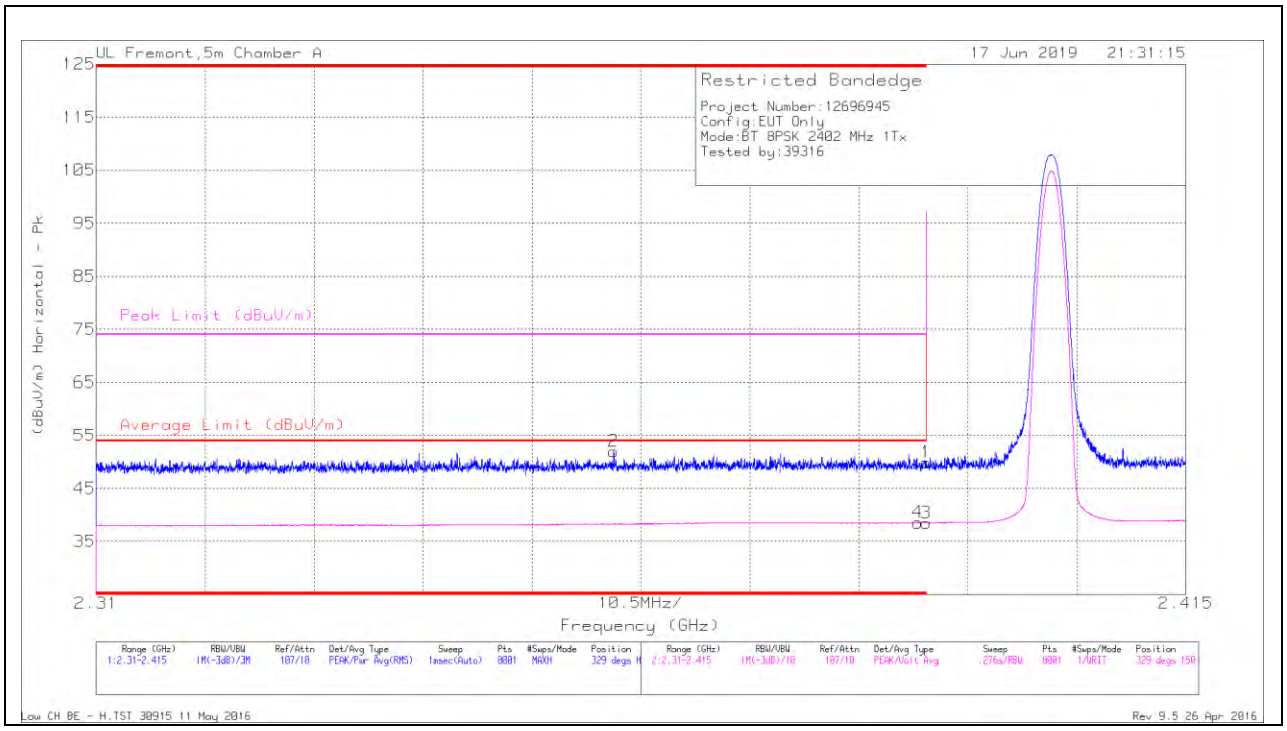
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration
FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015
Rev 9.5 01 Dec 2016

9.1.2. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

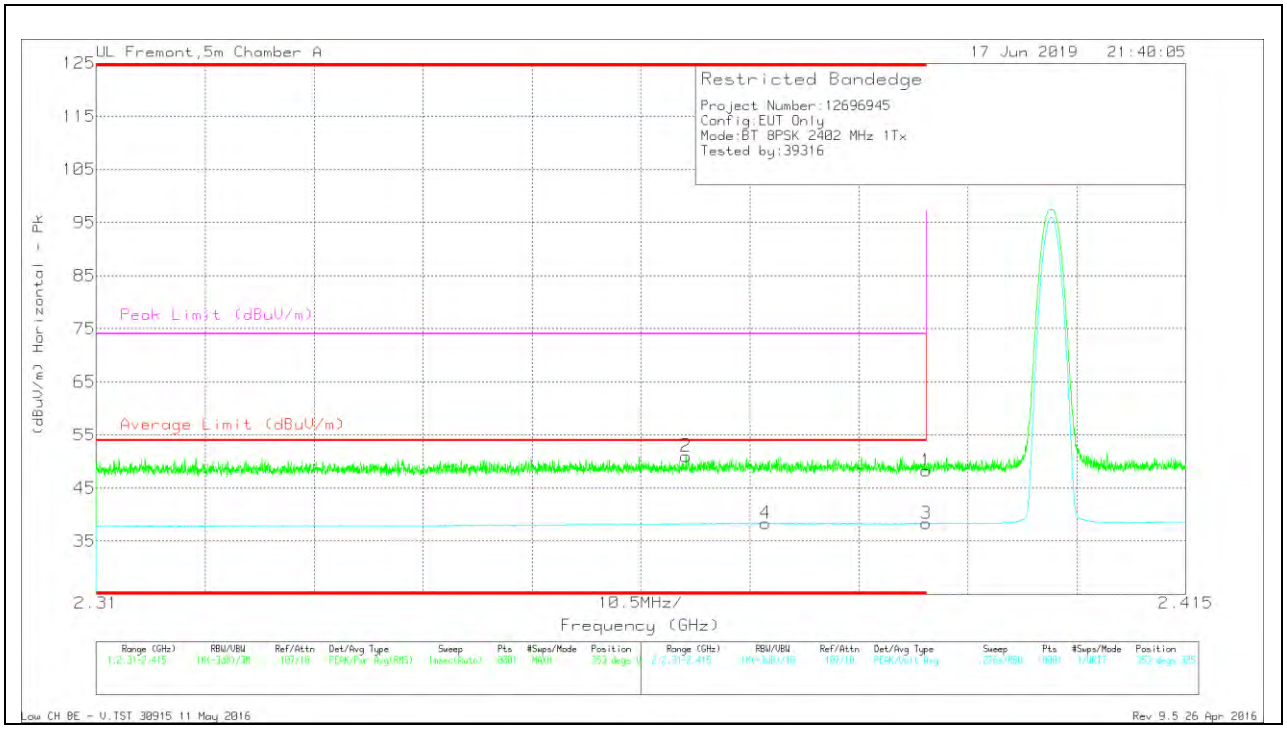
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.36	42.95	Pk	32	-23	51.95	-	-	74	-22.05	329	150	H
4	* 2.389	29.36	VA1T	32.2	-23	38.56	54	-15.44	-	-	329	150	H
1	* 2.39	40.67	Pk	32.2	-23	49.87	-	-	74	-24.13	329	150	H
3	* 2.39	29.29	VA1T	32.2	-23	38.49	54	-15.51	-	-	329	150	H

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

VERTICAL RESULT

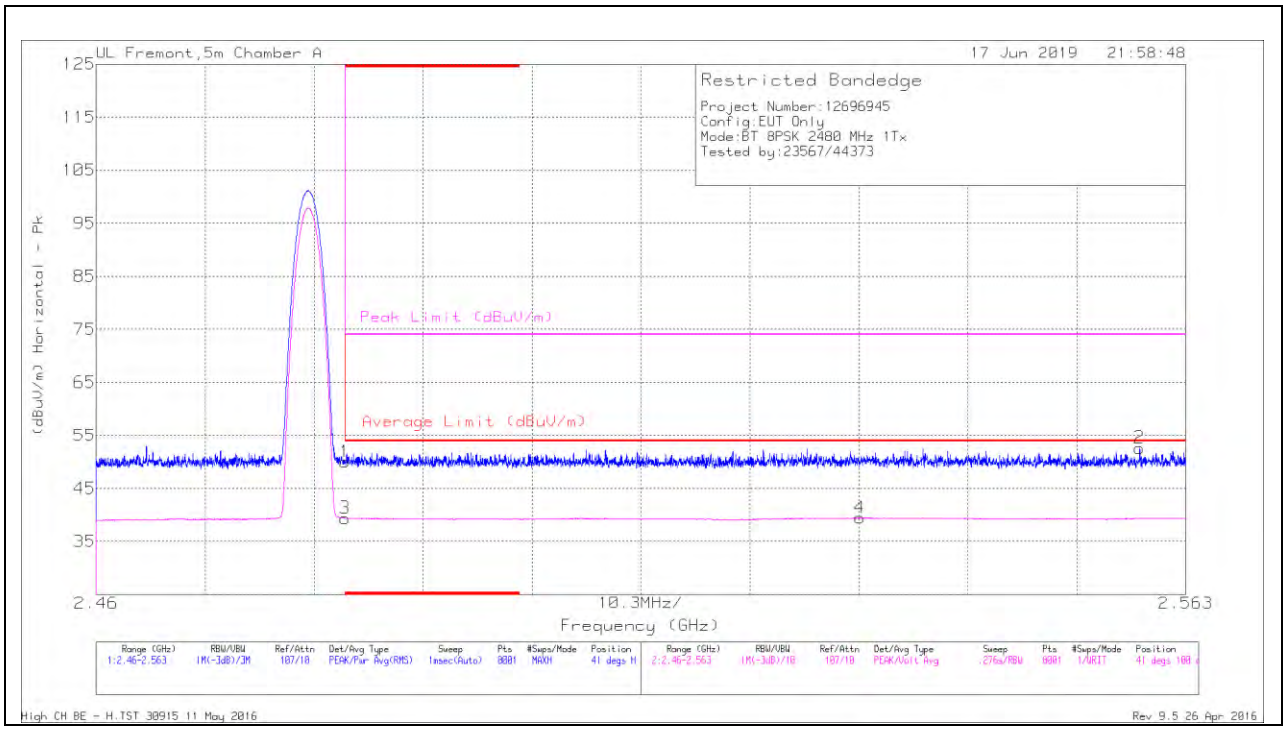


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.11	Pk	32.2	-23	48.31	-	-	74	-25.69	353	325	V
2	* 2.367	41.83	Pk	32.1	-22.9	51.03	-	-	74	-22.97	353	325	V
3	* 2.39	29.14	VA1T	32.2	-23	38.34	54	-15.66	-	-	353	325	V
4	* 2.374	29.09	VA1T	32.2	-22.9	38.39	54	-15.61	-	-	353	325	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

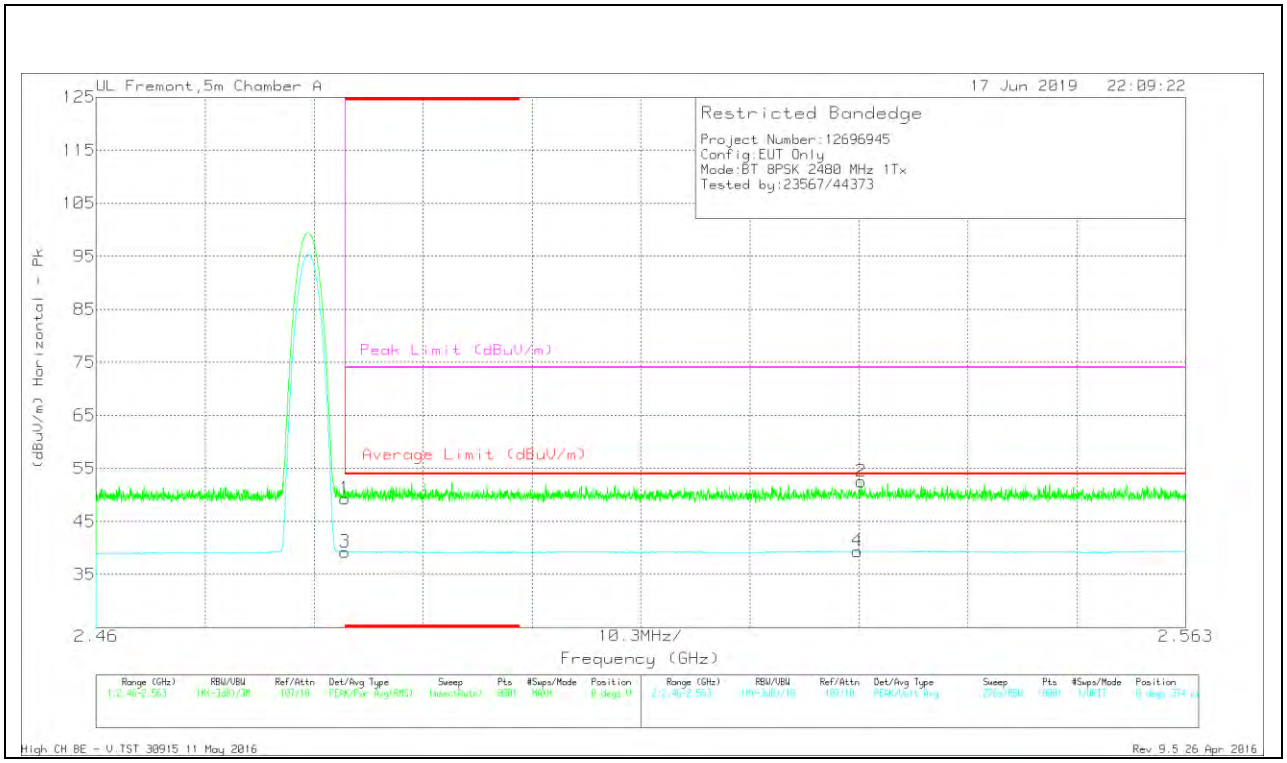
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.1	Pk	32.6	-22.7	50	-	-	74	-24	41	99	H
3	* 2.484	29.47	VA1T	32.6	-22.7	39.37	54	-14.63	-	-	41	100	H
4	2.532	29.24	VA1T	32.6	-22.4	39.44	54	-14.56	-	-	41	100	H
2	2.559	42.44	Pk	32.6	-22.4	52.64	-	-	74	-21.36	41	99	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

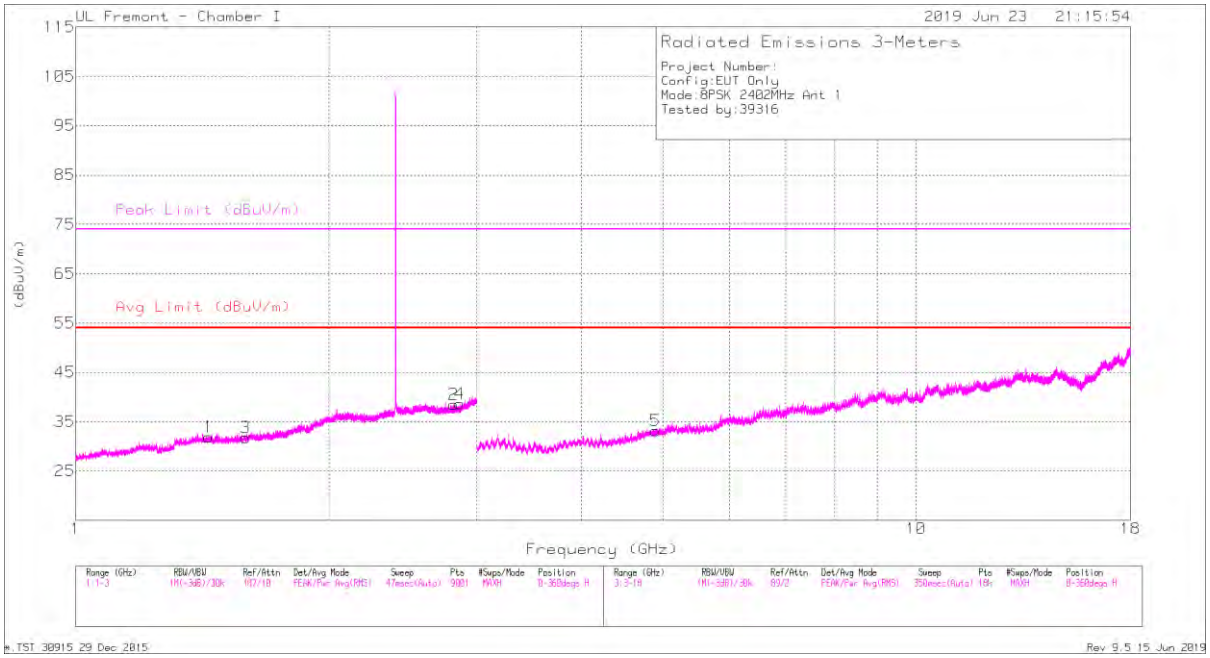


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.44	Pk	32.6	-22.7	49.34	-	-	74	-24.66	0	374	V
3	* 2.484	29.37	VA1T	32.6	-22.7	39.27	54	-14.73	-	-	0	374	V
2	2.532	42.33	Pk	32.6	-22.4	52.53	-	-	74	-21.47	0	374	V
4	2.532	29.2	VA1T	32.6	-22.4	39.4	54	-14.6	-	-	0	374	V

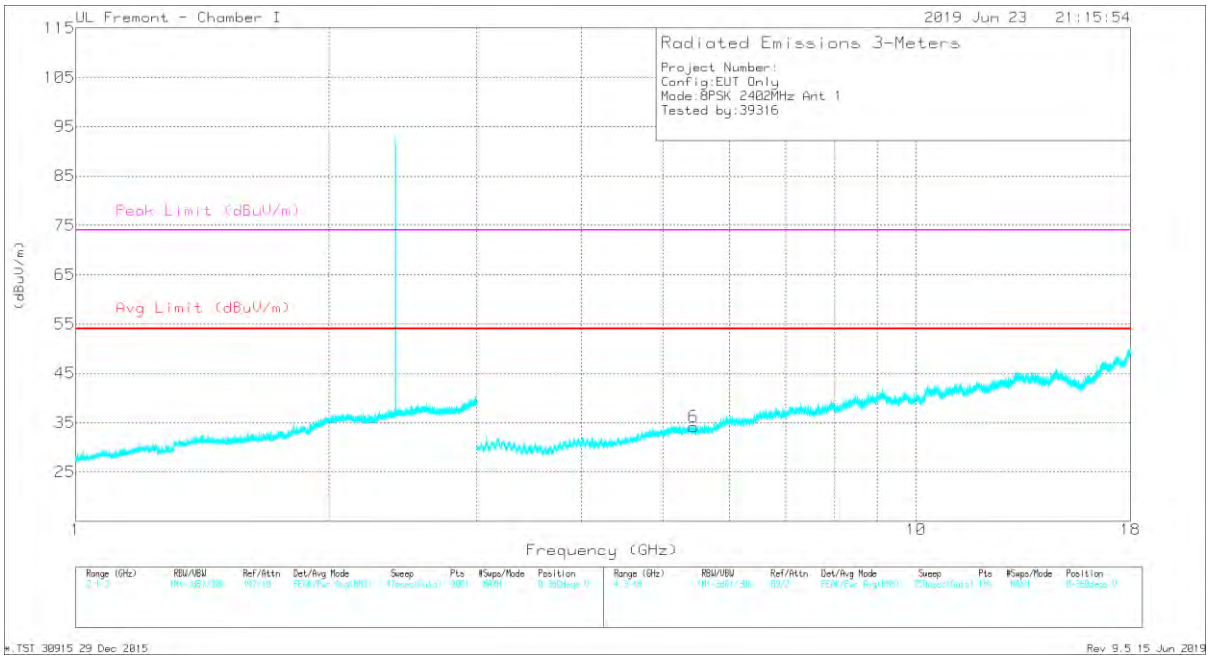
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

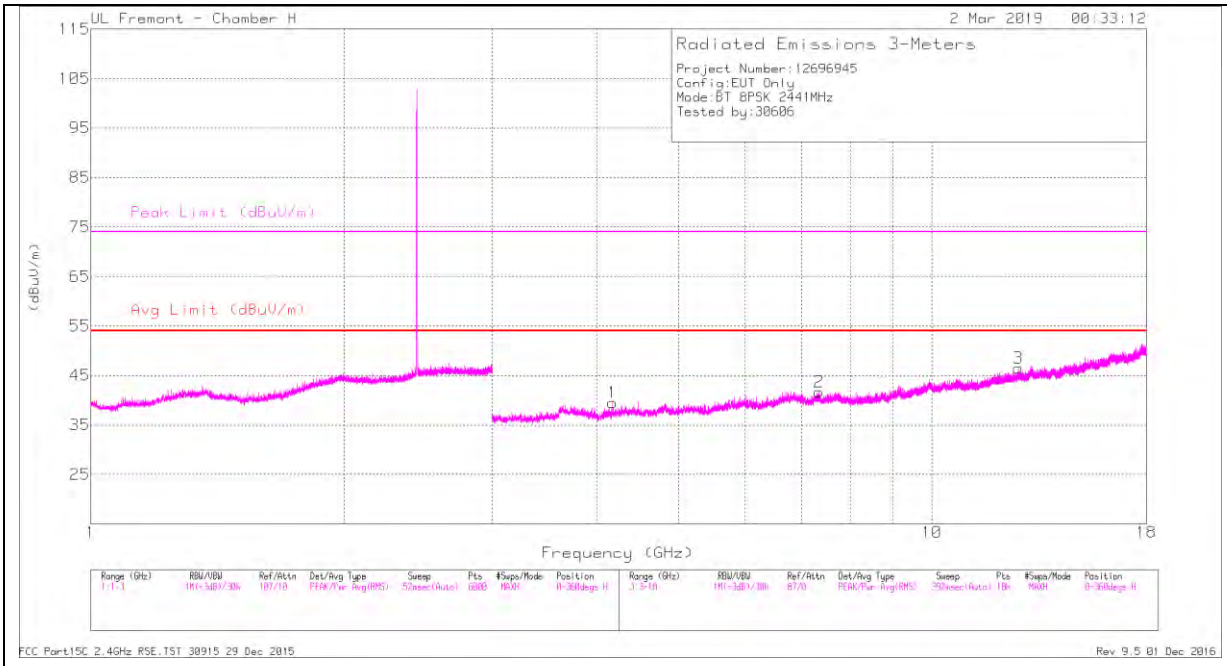
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE019081 0 (dB/m)	Amp/Cbl/Fltr/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	* 1.43778	36.37	PKFH	24.7	-20.9	40.17	-	-	74	-33.83	0	100	H
	* 1.43961	22.94	VA1T	24.7	-20.9	26.74	54	-27.26	-	-	0	100	H
2	* 2.8179	36.54	PKFH	29.3	-19.5	46.34	-	-	74	-27.66	0	197	H
	* 2.8182	22.78	VA1T	29.3	-19.5	32.58	54	-21.42	-	-	0	197	H
3	* 1.59275	35.09	PKFH	25.2	-20.4	39.89	-	-	74	-34.11	0	102	H
	* 1.59454	22.21	VA1T	25.2	-20.4	27.01	54	-26.99	-	-	0	102	H
4	* 2.86411	36.3	PKFH	29.5	-19.7	46.1	-	-	74	-27.9	0	102	H
	* 2.86662	22.81	VA1T	29.6	-19.6	32.81	54	-21.19	-	-	0	102	H
5	* 4.89066	36.76	PKFH	33.4	-28.7	41.46	-	-	74	-32.54	0	196	H
	* 4.89456	23.43	VA1T	33.4	-28.6	28.23	54	-25.77	-	-	0	196	H
6	* 5.43898	35.54	PKFH	33.7	-27.3	41.94	-	-	74	-32.06	0	100	V
	* 5.43849	22.59	VA1T	33.7	-27.3	28.99	54	-25.01	-	-	0	100	V

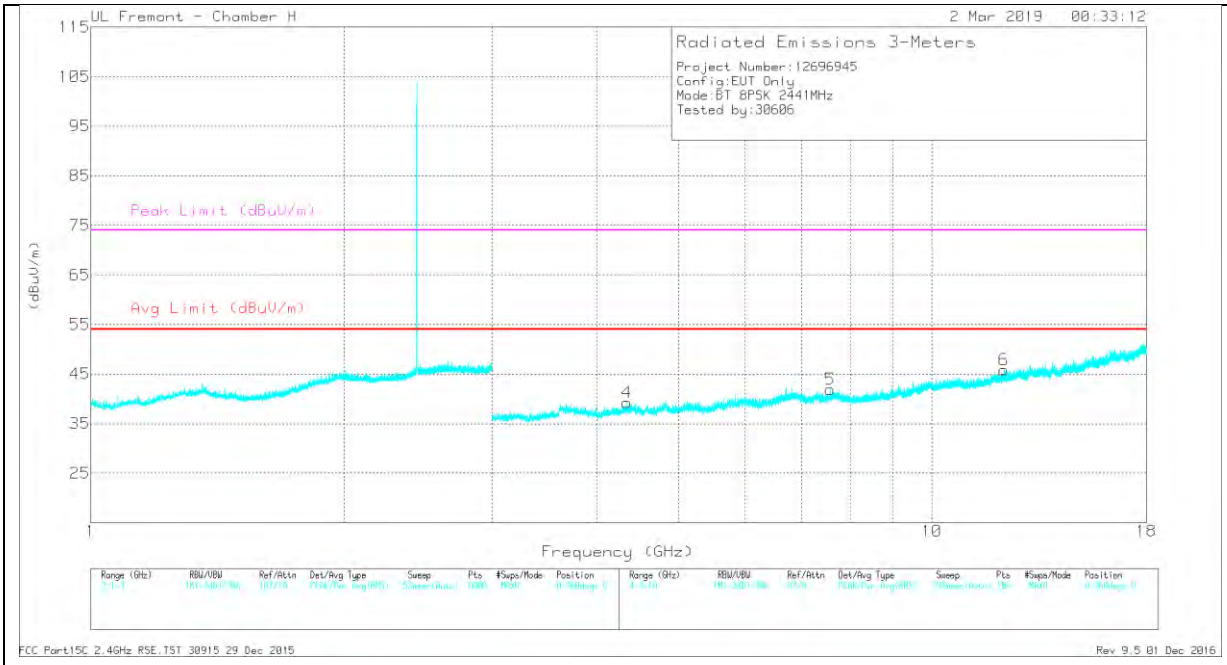
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

MID CHANNEL RESULTS



HORIZONTAL



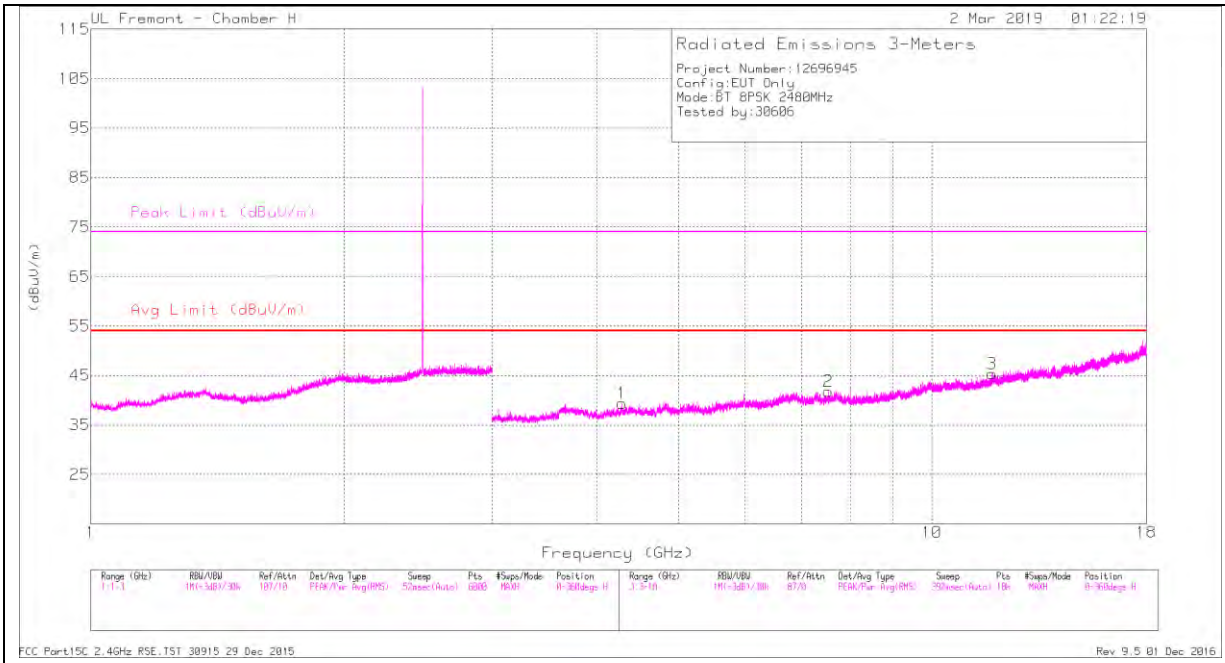
VERTICAL

RADIATED EMISSIONS

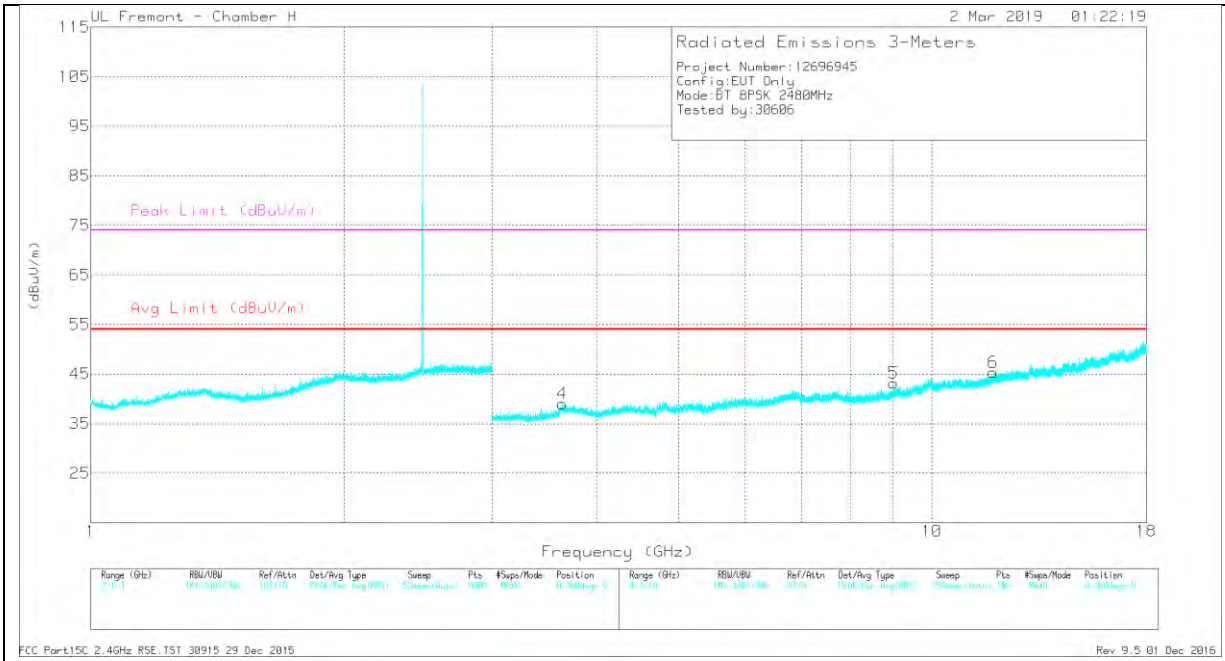
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.173	40.61	PKFH	33.2	-30.7	43.11	-	-	74	-30.89	44	293	H
	* 4.171	29.29	VA1T	33.2	-30.7	31.79	54	-22.21	-	-	44	293	H
2	* 7.345	38.05	PKFH	36.4	-26.7	47.75	-	-	74	-26.25	180	324	H
	* 7.346	25.25	VA1T	36.4	-26.7	34.95	54	-19.05	-	-	180	324	H
3	* 12.685	34.44	PKFH	39.2	-22.3	51.34	-	-	74	-22.66	173	294	H
	* 12.687	22.89	VA1T	39.2	-22.3	39.79	54	-14.21	-	-	173	294	H
4	* 4.343	40.92	PKFH	33.8	-29.9	44.82	-	-	74	-29.18	356	351	V
	* 4.344	28.1	VA1T	33.8	-29.9	32	54	-22	-	-	356	351	V
5	* 7.573	38.07	PKFH	36.6	-27.5	47.17	-	-	74	-26.83	324	197	V
	* 7.573	25.85	VA1T	36.6	-27.5	34.95	54	-19.05	-	-	324	197	V
6	* 12.182	35.06	PKFH	39	-23.1	50.96	-	-	74	-23.04	26	116	V
	* 12.183	23.09	VA1T	39	-23.2	38.89	54	-15.11	-	-	26	116	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration
FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015
Rev 9.5 01 Dec 2016

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

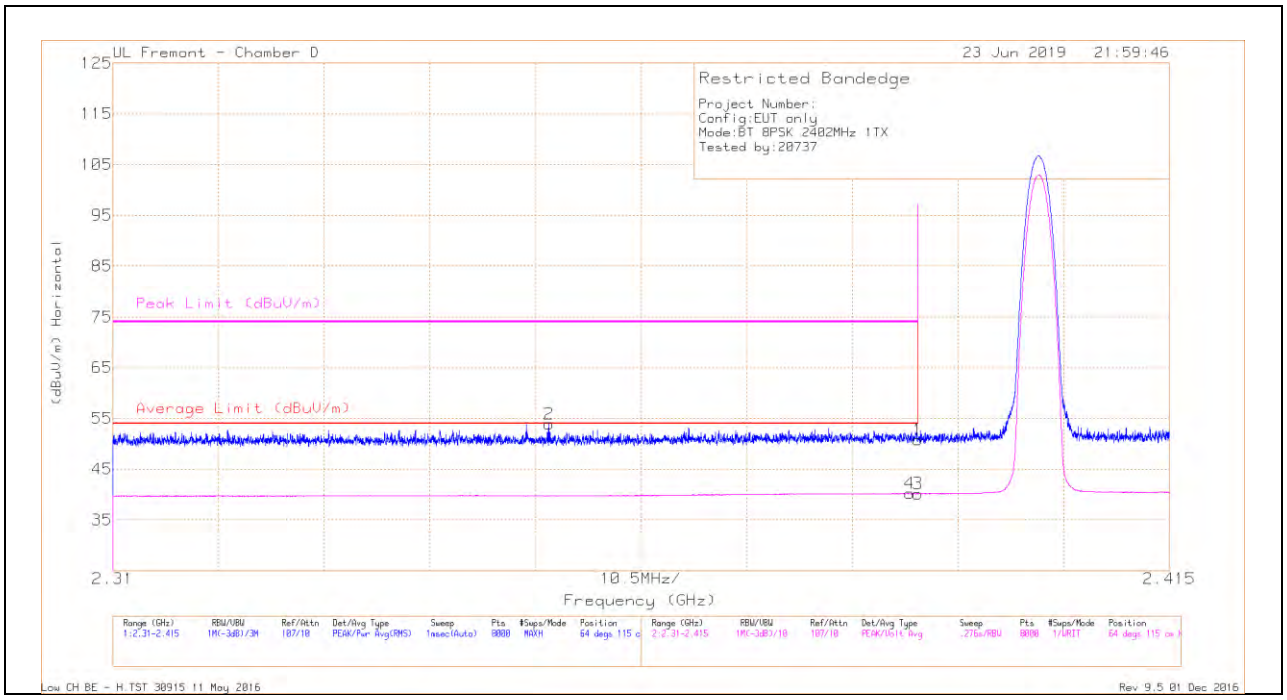
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.282	39.87	PKFH	33.7	-30	43.57	-	-	74	-30.43	69	245	H
	* 4.28	28.32	VA1T	33.7	-30	32.02	54	-21.98	-	-	69	245	H
2	* 7.531	37.32	PKFH	36.6	-27.5	46.42	-	-	74	-27.58	102	173	H
	* 7.531	25.57	VA1T	36.6	-27.5	34.67	54	-19.33	-	-	102	173	H
3	* 11.803	34.76	PKFH	38.7	-22.9	50.56	-	-	74	-23.44	314	243	H
	* 11.801	23.09	VA1T	38.7	-22.9	38.89	54	-15.11	-	-	314	243	H
4	* 3.638	40.29	PKFH	33.1	-29.5	43.89	-	-	74	-30.11	267	357	V
	* 3.635	28.22	VA1T	33.1	-29.5	31.82	54	-22.18	-	-	267	357	V
5	* 9.014	35.98	PKFH	36.2	-24.6	47.58	-	-	74	-26.42	357	170	V
	* 9.014	24	VA1T	36.2	-24.6	35.6	54	-18.4	-	-	357	170	V
6	* 11.832	34.6	PKFH	38.7	-23	50.3	-	-	74	-23.7	78	155	V
	* 11.834	23.14	VA1T	38.7	-23.1	38.74	54	-15.26	-	-	78	155	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

Antenna 5

BANDEDGE (LOW CHANNEL)

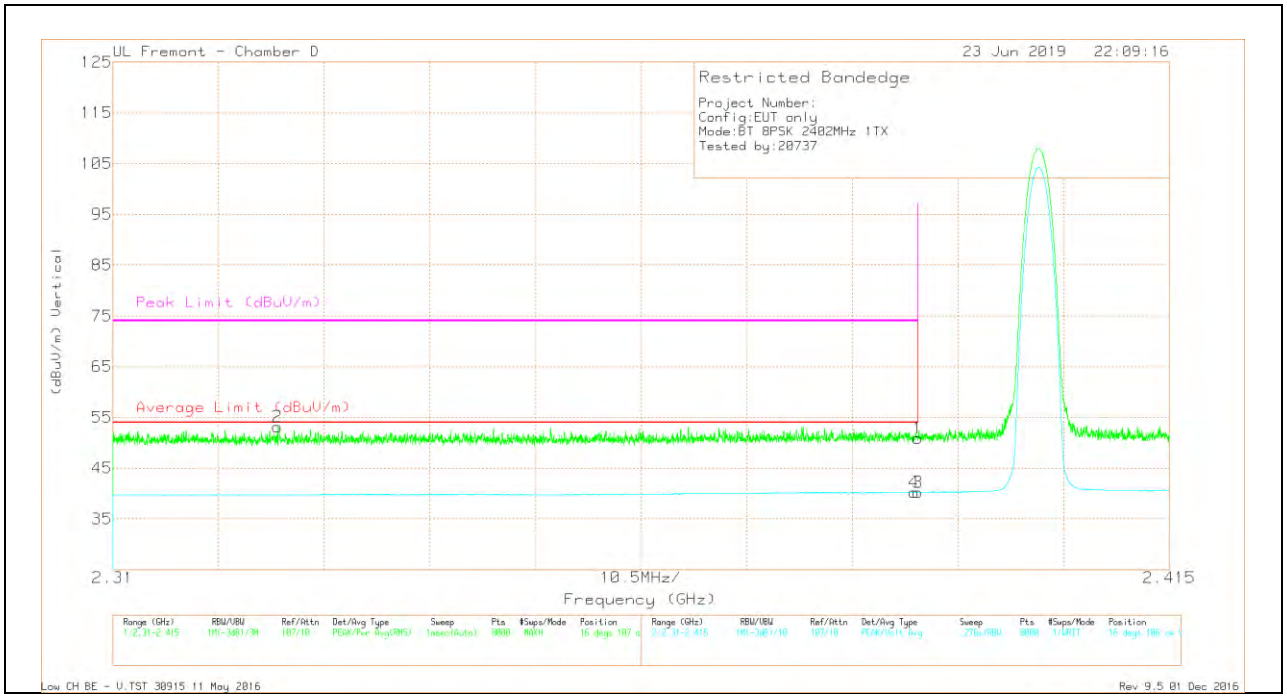
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.353	42.88	Pk	31.7	-20.7	53.88	-	-	74	-20.12	64	115	H
4	* 2.389	28.81	VA1T	32	-20.6	40.21	54	-13.79	-	-	64	115	H
1	* 2.39	39.34	Pk	32	-20.6	50.74	-	-	74	-23.26	64	115	H
3	* 2.39	28.77	VA1T	32	-20.6	40.17	54	-13.83	-	-	64	115	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

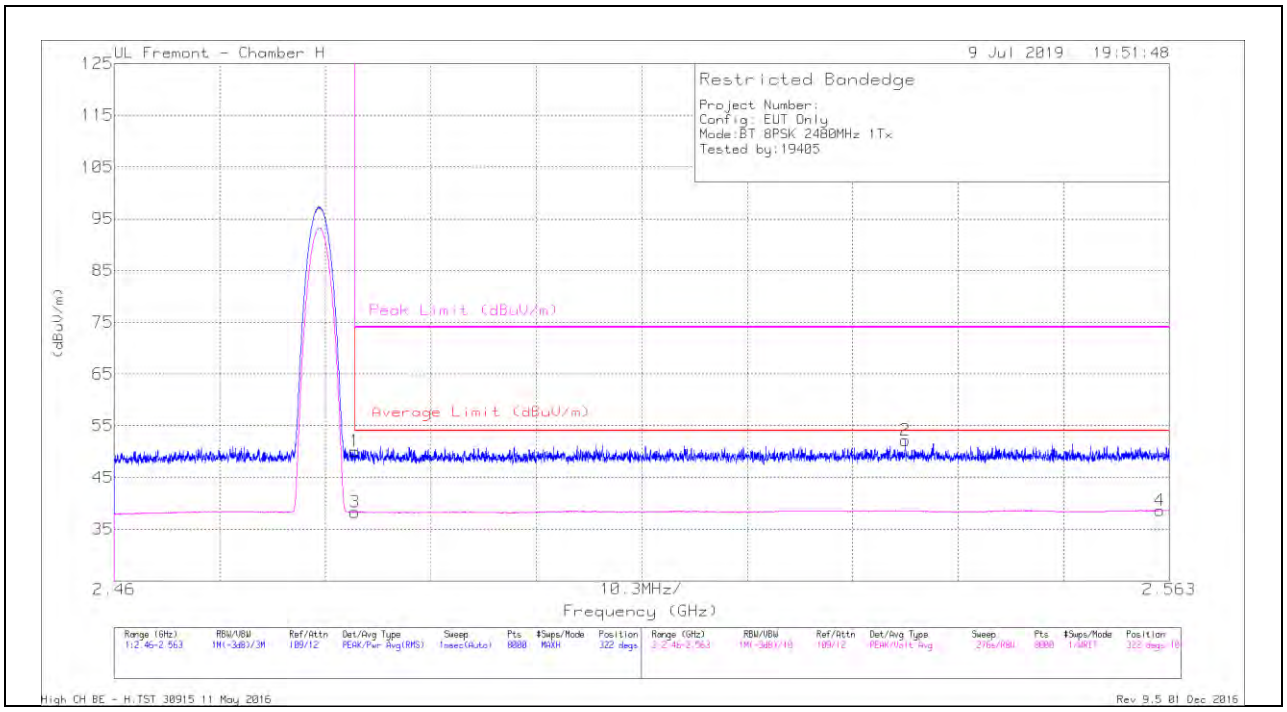


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.51	Pk	32	-20.6	50.91	-	-	74	-23.09	16	107	V
2	* 2.326	42.14	Pk	31.7	-20.7	53.14	-	-	74	-20.86	16	107	V
3	* 2.39	28.85	VA1T	32	-20.6	40.25	54	-13.75	-	-	16	106	V
4	* 2.39	28.89	VA1T	32	-20.6	40.29	54	-13.71	-	-	16	106	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

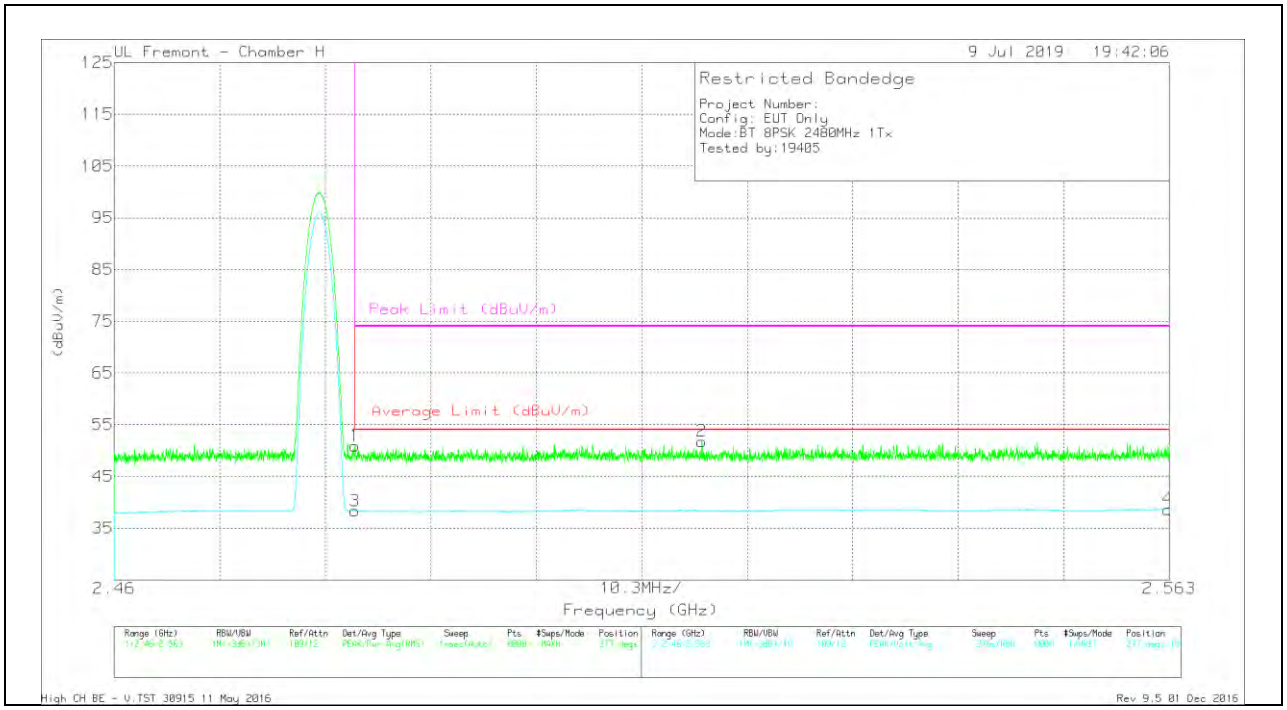
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.07	Pk	32.5	-21.5	50.07	-	-	74	-23.93	322	103	H
3	* 2.484	27.3	VA1T	32.5	-21.5	38.3	54	-15.7	-	-	322	103	H
2	2.537	40.89	Pk	32.5	-21.2	52.19	-	-	74	-21.81	322	103	H
4	2.562	27.22	VA1T	32.5	-21.1	38.62	54	-15.38	-	-	322	103	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

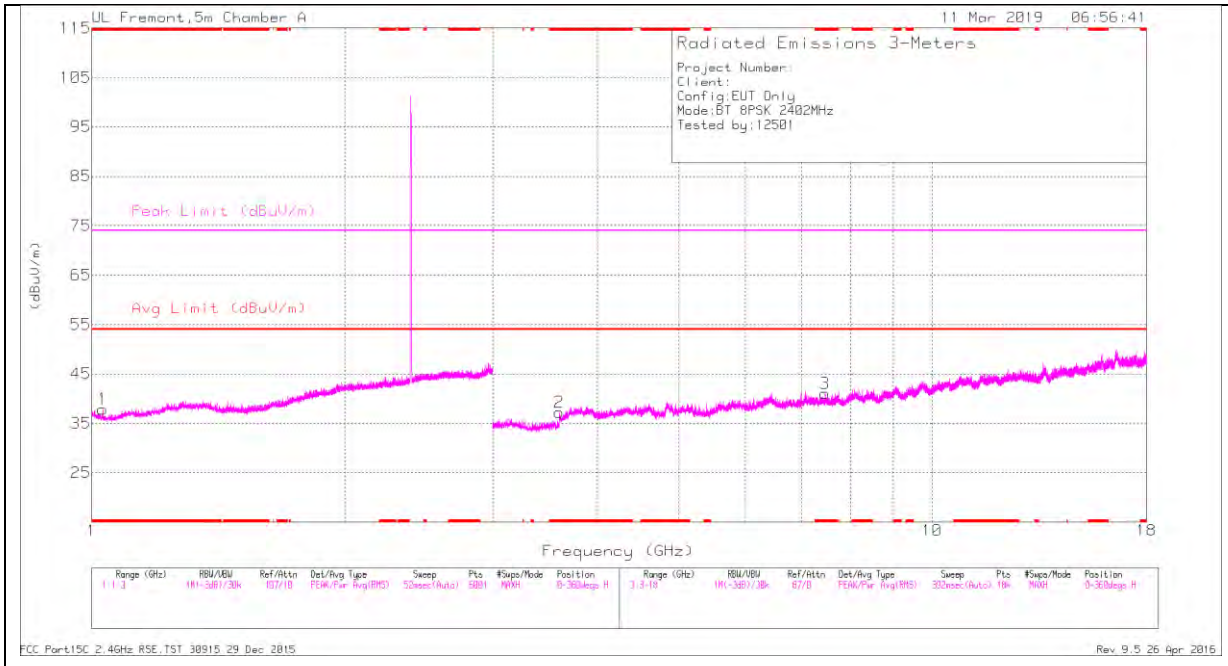


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.9	Pk	32.5	-21.5	50.9	-	-	74	-23.1	277	155	V
3	* 2.484	27.35	VA1T	32.5	-21.5	38.35	54	-15.65	-	-	277	155	V
2	2.517	40.5	Pk	32.6	-21.3	51.8	-	-	74	-22.2	277	155	V
4	2.563	27.25	VA1T	32.5	-21.1	38.65	54	-15.35	-	-	277	155	V

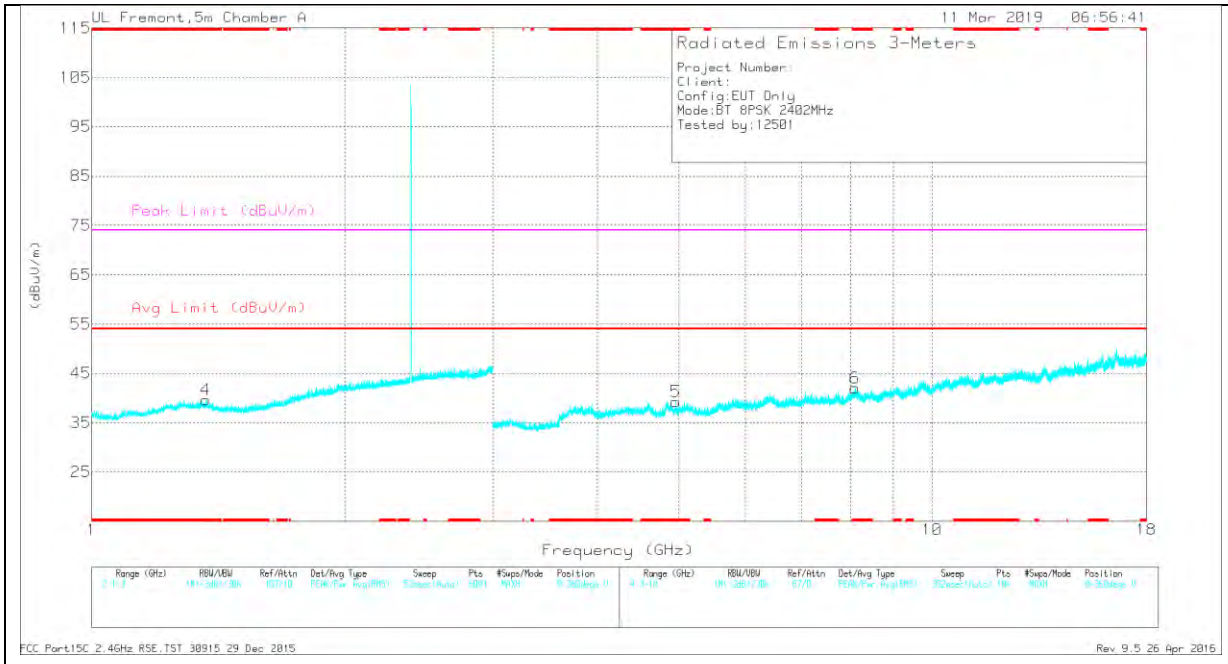
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



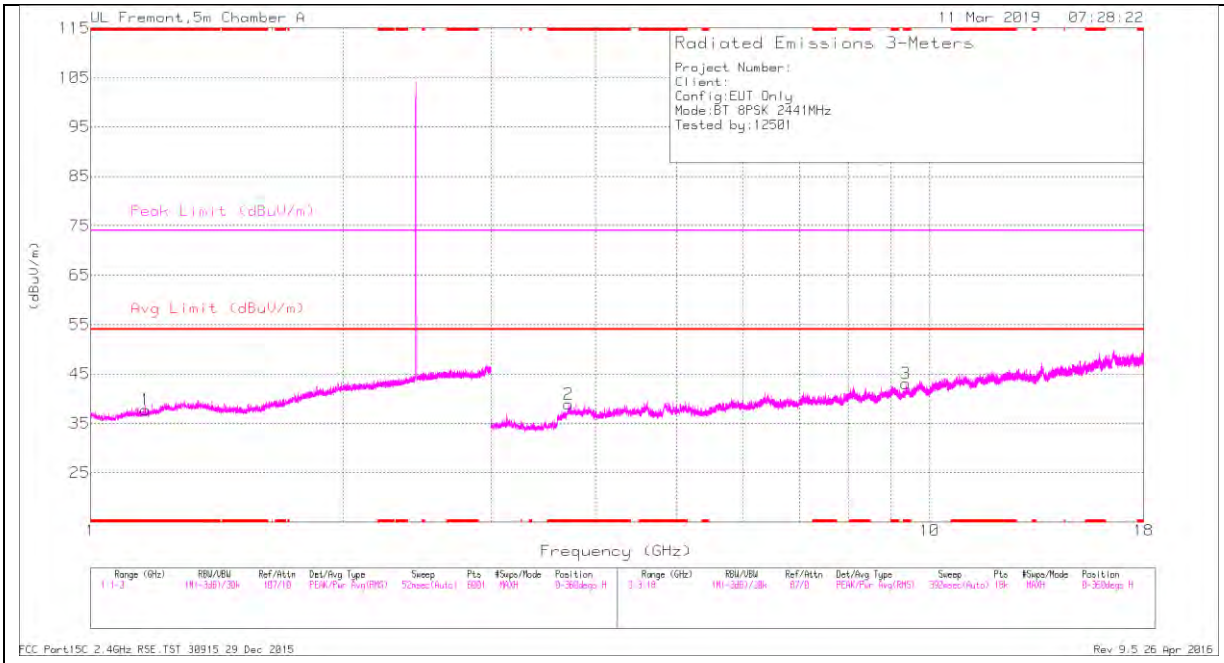
VERTICAL

RADIATED EMISSIONS

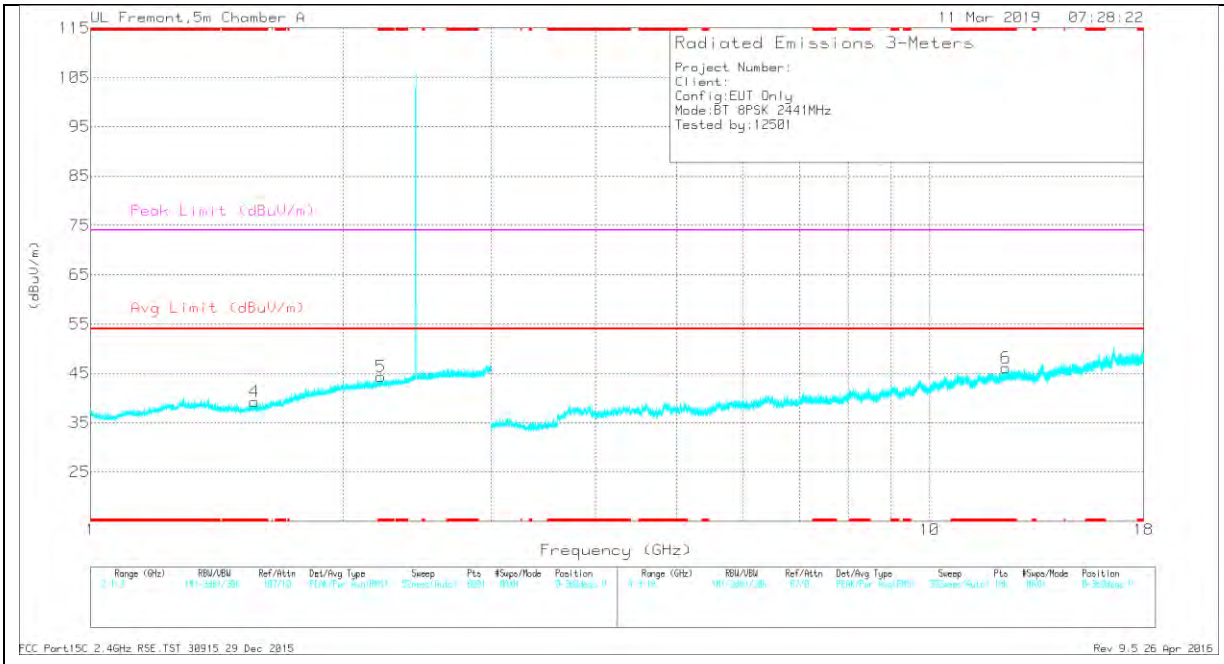
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.031	41.32	PKFH	27.2	-25.6	42.92	-	-	74	-31.08	117	208	H
* 1.032	29.67	VA1T	27.2	-25.7	31.17	54	-22.83	-	-	117	208	H
* 1.37	40.82	PKFH	29.2	-25	45.02	-	-	74	-28.98	19	237	V
* 1.368	29.32	VA1T	29.2	-25	33.52	54	-20.48	-	-	19	237	V
* 3.601	39.14	PKFH	33.2	-29.6	42.74	-	-	74	-31.26	72	126	H
* 3.602	27.55	VA1T	33.2	-29.6	31.15	54	-22.85	-	-	72	126	H
* 7.454	34.03	PKFH	35.7	-23.2	46.53	-	-	74	-27.47	41	235	H
* 7.455	22.46	VA1T	35.7	-23.2	34.96	54	-19.04	-	-	41	235	H
* 4.959	37.89	PKFH	34.1	-27.9	44.09	-	-	74	-29.91	267	111	V
* 4.96	26.72	VA1T	34.1	-27.9	32.92	54	-21.08	-	-	267	111	V
* 8.103	34.75	PKFH	35.8	-22.3	48.25	-	-	74	-25.75	218	150	V
* 8.103	22.79	VA1T	35.8	-22.3	36.29	54	-17.71	-	-	218	150	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 26 Apr 2016

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.161	41.1	PKFH	27.6	-25.1	43.6	-	-	74	-30.4	62	177	H
* 1.163	29.63	VA1T	27.6	-25.1	32.13	54	-21.87	-	-	62	177	H
* 1.567	40.97	PKFH	28.1	-24.3	44.77	-	-	74	-29.23	39	199	V
* 1.569	29.31	VA1T	28.1	-24.3	33.11	54	-20.89	-	-	39	199	V
* 1.566	40.68	PKFH	28.1	-24.4	44.38	-	-	74	-29.62	134	118	V
* 1.567	29.31	VA1T	28.1	-24.3	33.11	54	-20.89	-	-	134	118	V
* 2.218	40.59	PKFH	31.6	-22.9	49.29	-	-	74	-24.71	192	315	V
* 2.218	29.22	VA1T	31.6	-22.9	37.92	54	-16.08	-	-	192	315	V
* 3.714	38.78	PKFH	33.2	-28.6	43.38	-	-	74	-30.62	335	260	H
* 3.712	27.54	VA1T	33.2	-28.6	32.14	54	-21.86	-	-	335	260	H
* 9.378	33.33	PKFH	36.5	-21.7	48.13	-	-	74	-25.87	305	321	H
* 9.377	22.05	VA1T	36.6	-21.7	36.95	54	-17.05	-	-	305	321	H
* 12.343	33.11	PKFH	39	-20.3	51.81	-	-	74	-22.19	12	107	V
* 12.341	21.37	VA1T	39	-20.3	40.07	54	-13.93	-	-	12	107	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration
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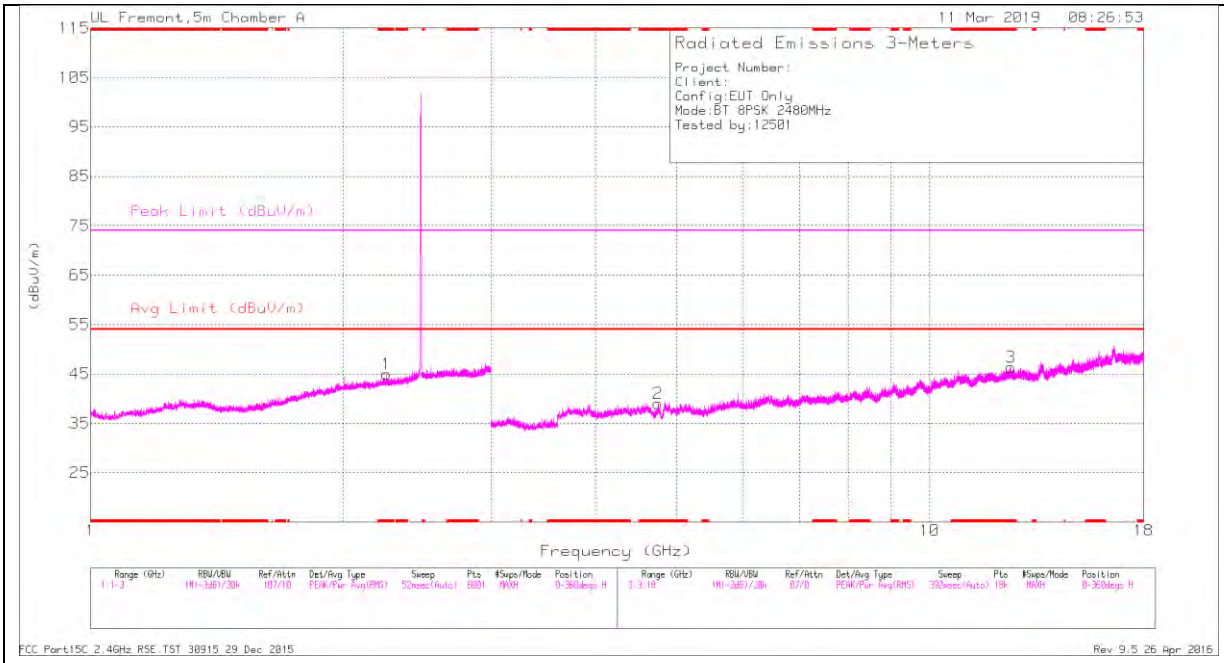
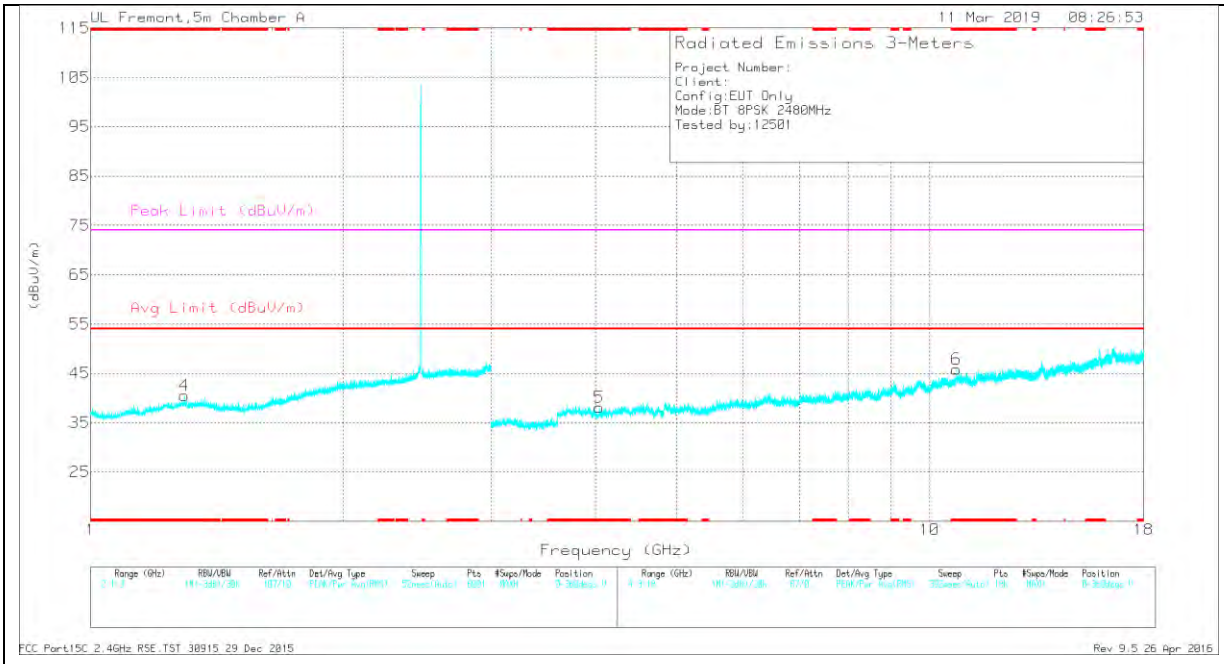
Rev 9.5 26 Apr 2016

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.252	40.39	PKFH	31.6	-22.8	49.19	-	-	74	-24.81	78	302	H
* 2.252	29.11	VA1T	31.6	-22.8	37.91	54	-16.09	-	-	78	302	H
* 1.295	41.82	PKFH	29.1	-25	45.92	-	-	74	-28.08	49	239	V
* 1.293	29.62	VA1T	29.1	-24.9	33.82	54	-20.18	-	-	49	239	V
* 4.747	37.98	PKFH	34.1	-28.3	43.78	-	-	74	-30.22	154	218	H
* 4.745	26.38	VA1T	34.1	-28.3	32.18	54	-21.82	-	-	154	218	H
* 12.511	32.55	PKFH	39.1	-19.6	52.05	-	-	74	-21.95	358	191	H
* 12.508	20.74	VA1T	39.1	-19.7	40.14	54	-13.86	-	-	358	191	H
* 4.041	38.16	PKFH	33.7	-28.9	42.96	-	-	74	-31.04	68	124	V
* 4.043	26.91	VA1T	33.7	-28.9	31.71	54	-22.29	-	-	68	124	V
* 10.767	32.14	PKFH	37.9	-19.6	50.44	-	-	74	-23.56	108	347	V
* 10.766	20.78	VA1T	37.9	-19.7	38.98	54	-15.02	-	-	108	347	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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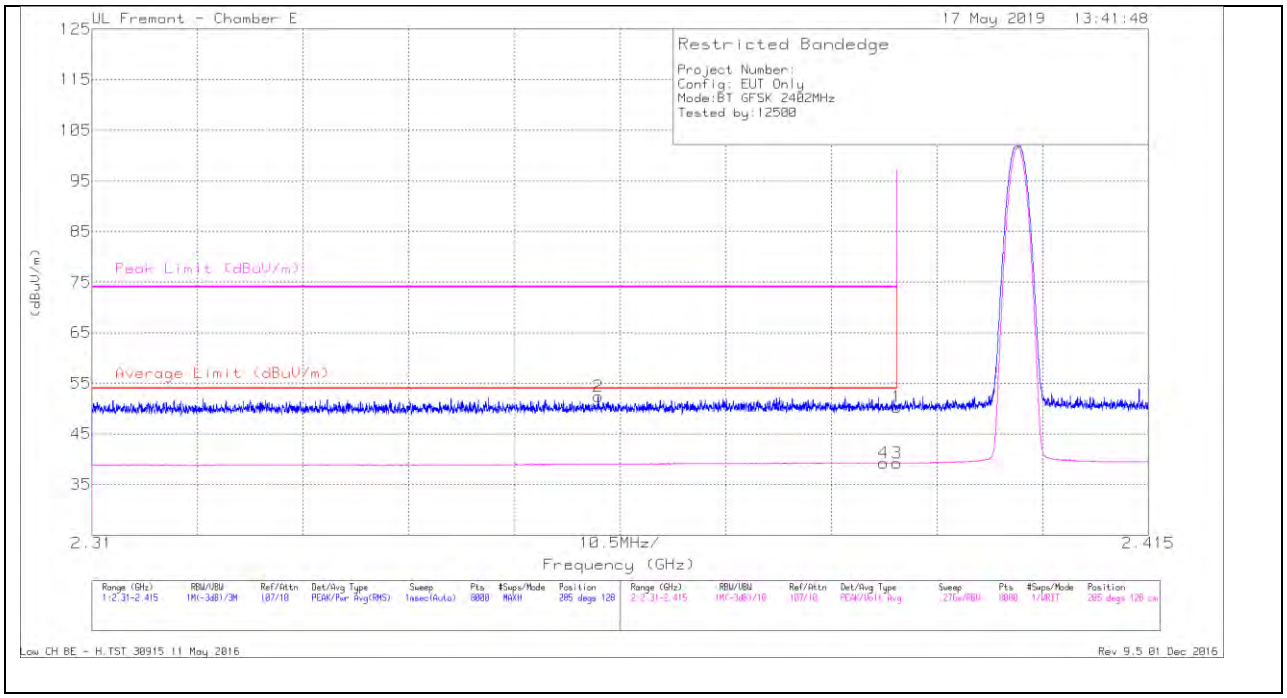
Rev 9.5 26 Apr 2016

9.1.3. LOW POWER BASIC DATA RATE GFSK MODULATION

Antenna 2

BANDEDGE (LOW CHANNEL)

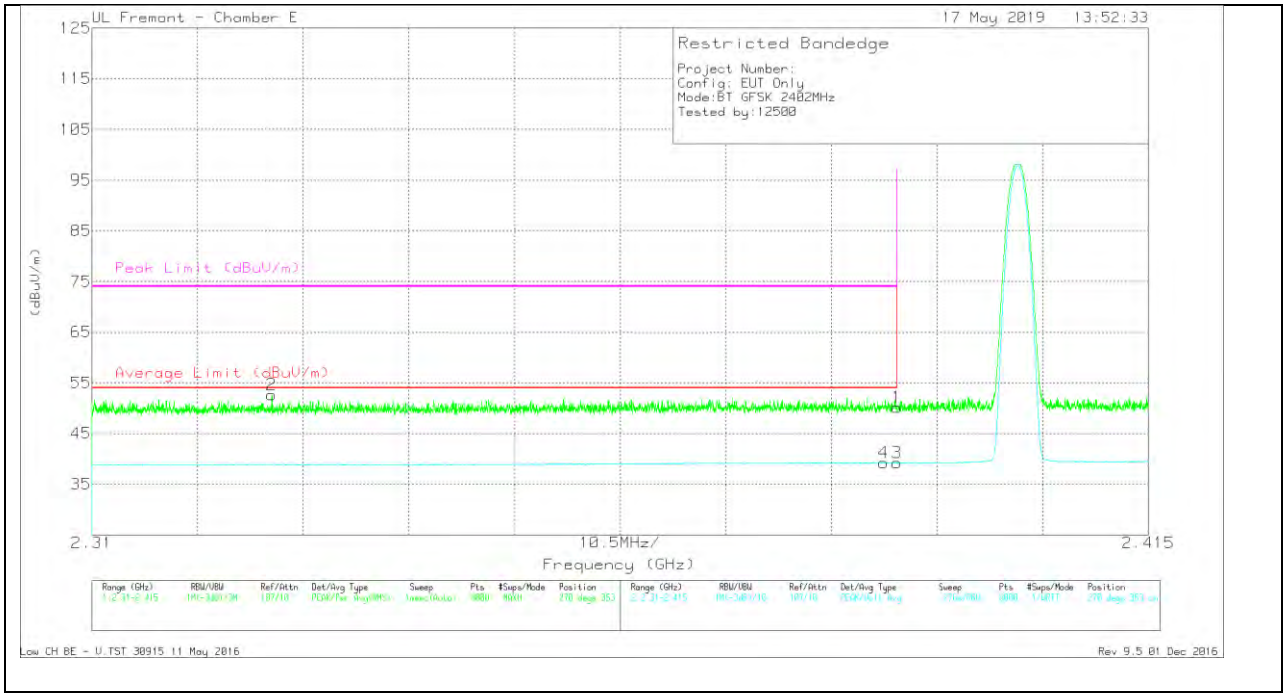
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.18	Pk	32.3	-26.2	50.28	-	-	74	-23.72	285	128	H
2	* 2.36	46.56	Pk	32.1	-26.3	52.36	-	-	74	-21.64	285	128	H
3	* 2.39	33.17	VA1T	32.3	-26.2	39.27	54	-14.73	-	-	285	128	H
4	* 2.389	33.19	VA1T	32.3	-26.2	39.29	54	-14.71	-	-	285	128	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration
Low CH BE - H.TST 30915 11 May 2016
Rev 9.5 01 Dec 2016

VERTICAL RESULT

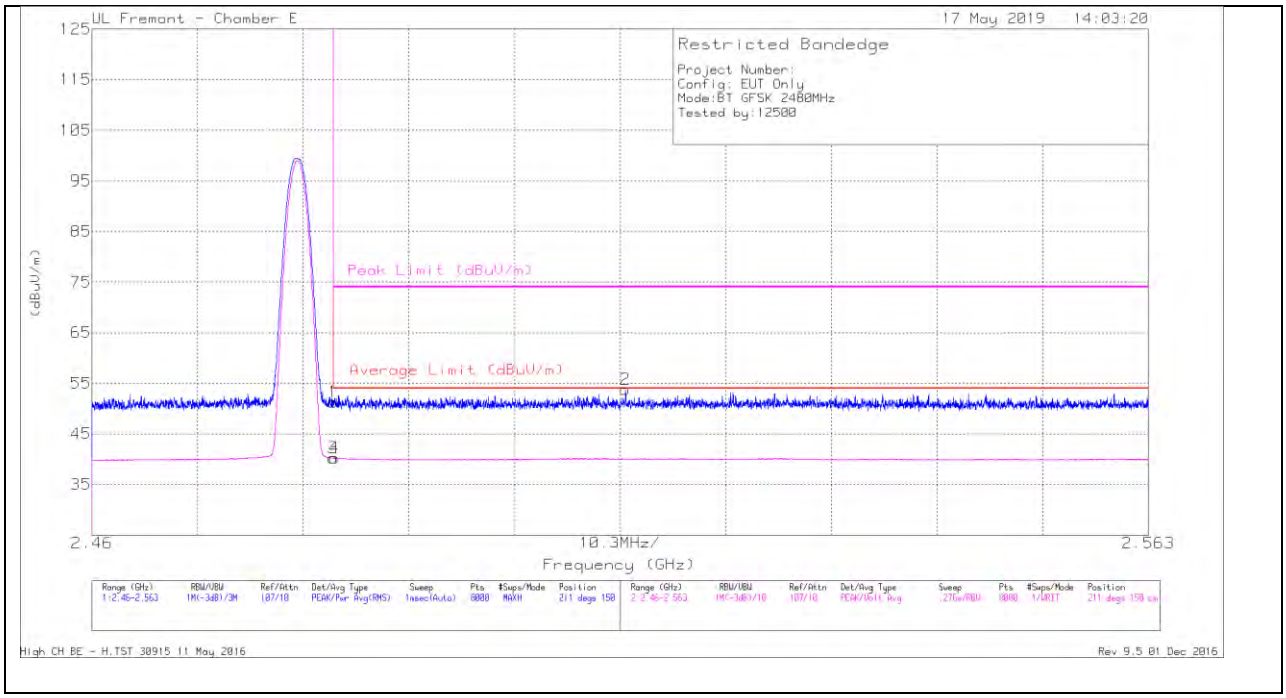


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.04	Pk	32.3	-26.2	50.14	-	-	74	-23.86	270	353	V
2	* 2.328	46.95	Pk	32	-26.3	52.65	-	-	74	-21.35	270	353	V
3	* 2.39	33.09	VA1T	32.3	-26.2	39.19	54	-14.81	-	-	270	353	V
4	* 2.389	33.14	VA1T	32.3	-26.2	39.24	54	-14.76	-	-	270	353	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
Low CH BE - V.TST 30915 11 May 2016
Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)

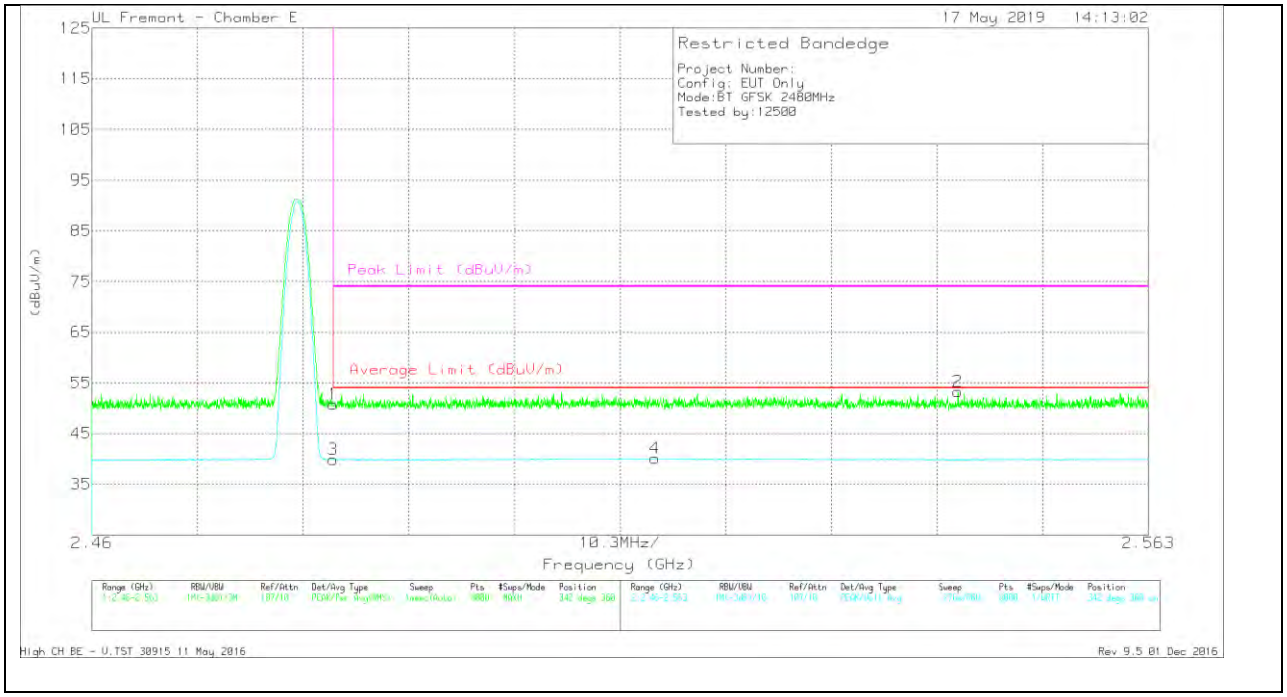
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.74	Pk	32.8	-26.3	51.24	-	-	74	-22.76	211	150	H
3	* 2.484	33.74	VA1T	32.8	-26.3	40.24	54	-13.76	-	-	211	150	H
4	* 2.484	33.73	VA1T	32.8	-26.3	40.23	54	-13.77	-	-	211	150	H
2	2.512	47.1	Pk	32.9	-26.2	53.8	-	-	74	-20.2	211	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
High CH BE - H.TST 30915 11 May 2016
Rev 9.5 01 Dec 2016

VERTICAL RESULT



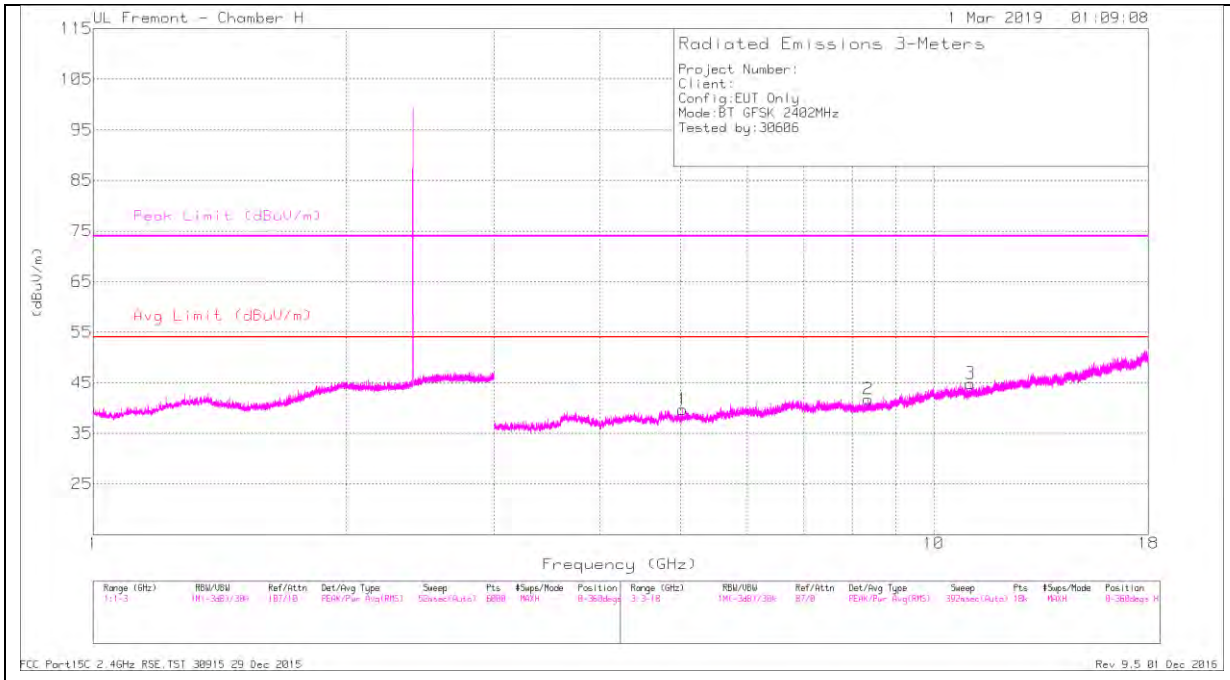
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.31	Pk	32.8	-26.3	50.81	-	-	74	-23.19	342	360	V
3	* 2.484	33.33	VA1T	32.8	-26.3	39.83	54	-14.17	-	-	342	360	V
4	2.515	33.36	VA1T	32.9	-26.2	40.06	54	-13.94	-	-	342	360	V
2	2.544	46.74	Pk	32.8	-26.3	53.24	-	-	74	-20.76	342	360	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
High CH BE - V.TST 30915 11 May 2016
Rev 9.5 01 Dec 2016

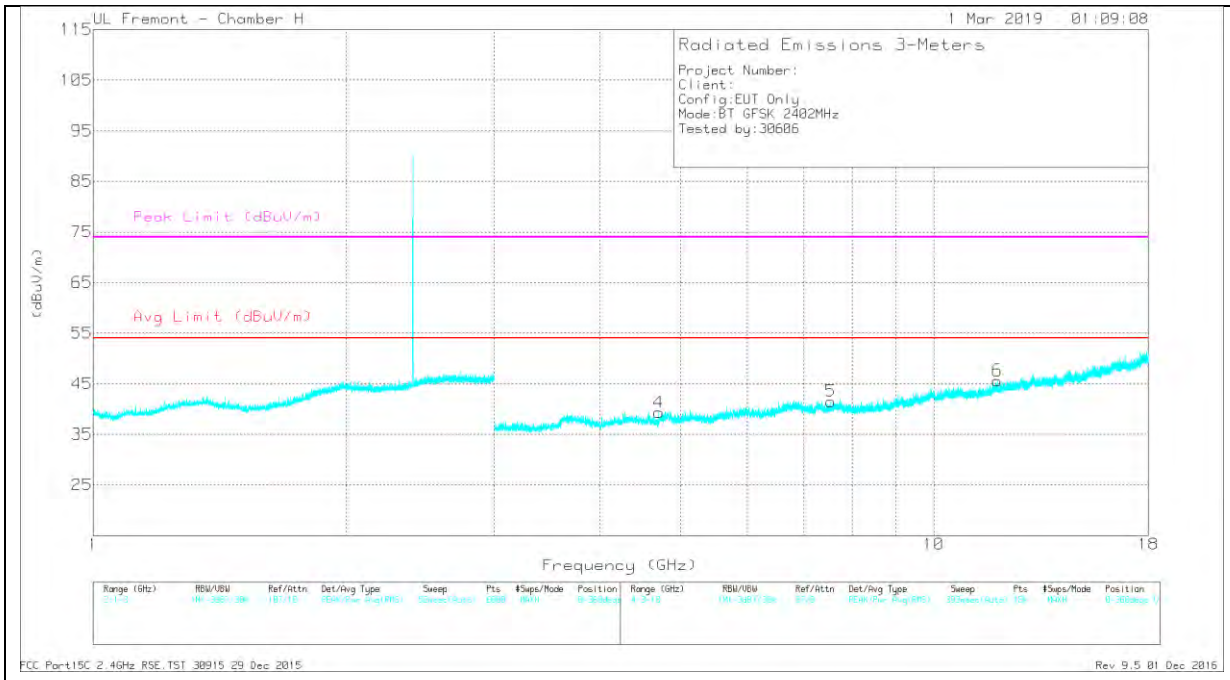
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



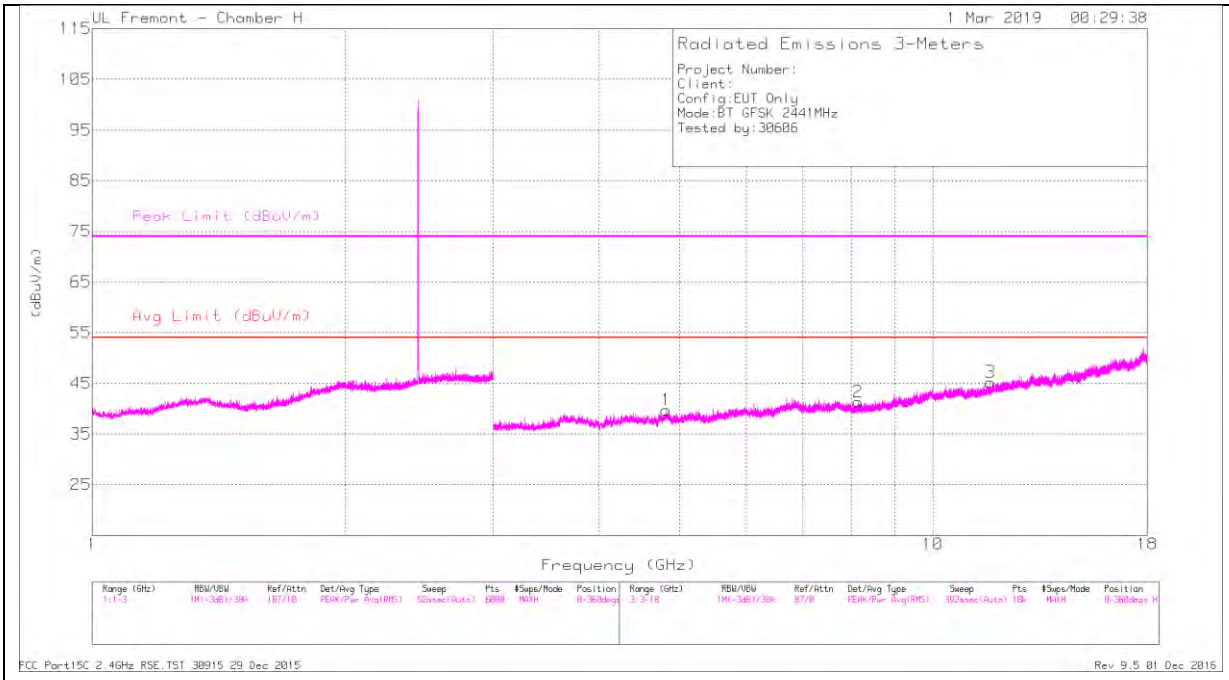
VERTICAL

RADIATED EMISSIONS

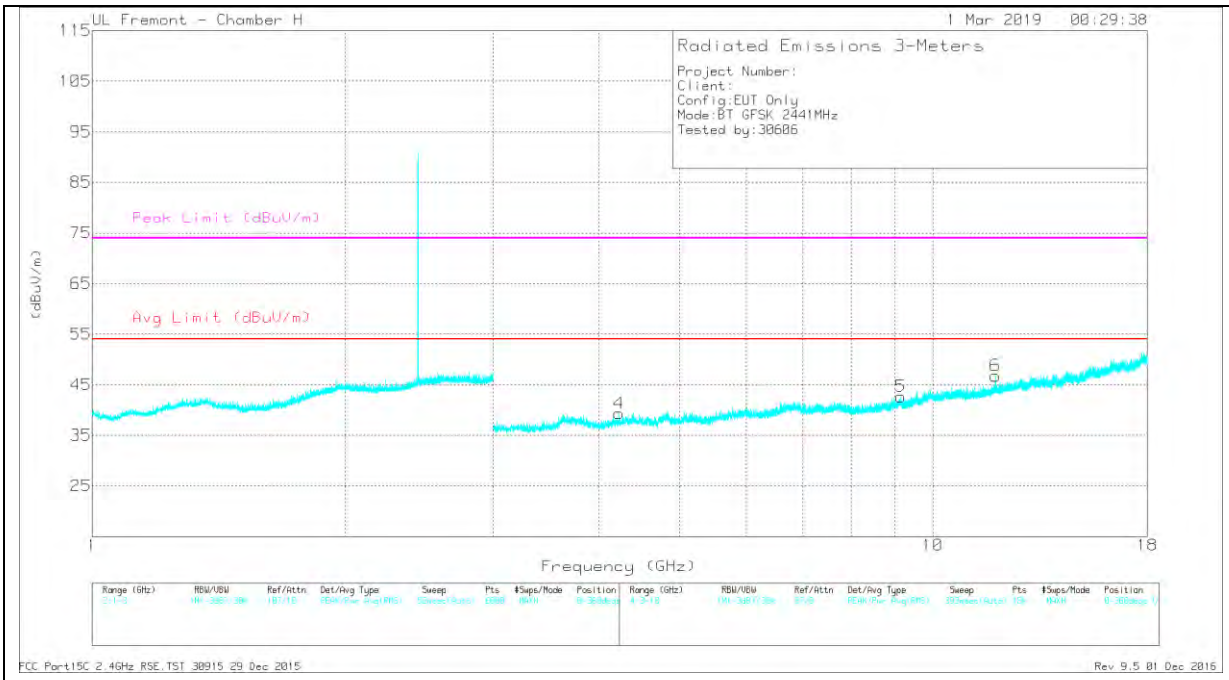
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.027	40.03	PKFH	34.2	-29.5	44.73	-	-	74	-29.27	155	244	H
	* 5.027	28.06	VA1T	34.2	-29.5	32.76	54	-21.24	-	-	155	244	H
2	* 8.354	37.1	PKFH	35.8	-25.8	47.1	-	-	74	-26.9	174	100	H
	* 8.357	24.79	VA1T	35.8	-25.8	34.79	54	-19.21	-	-	174	100	H
3	* 11.06	35	PKFH	37.8	-23.4	49.4	-	-	74	-24.6	24	256	H
	* 11.058	23.34	VA1T	37.8	-23.4	37.74	54	-16.26	-	-	24	256	H
4	* 4.711	41.09	PKFH	34.1	-29.9	45.29	-	-	74	-28.71	323	336	V
	* 4.71	28.58	VA1T	34.1	-29.9	32.78	54	-21.22	-	-	323	336	V
5	* 7.548	38.39	PKFH	36.6	-27.5	47.49	-	-	74	-26.51	187	231	V
	* 7.547	25.75	VA1T	36.5	-27.5	34.75	54	-19.25	-	-	187	231	V
6	* 11.9	34.87	PKFH	38.7	-22.9	50.67	-	-	74	-23.33	198	259	V
	* 11.9	23.1	VA1T	38.7	-22.9	38.9	54	-15.1	-	-	198	259	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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/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	* 4.817	41.87	PKFH	34.1	-30.3	45.67	-	-	74	-28.33	288	151	H
	* 4.82	28.95	VA1T	34.1	-30.4	32.65	54	-21.35	-	-	288	151	H
2	* 8.149	37	PKFH	35.8	-26	46.8	-	-	74	-27.2	25	146	H
	* 8.148	24.9	VA1T	35.8	-26	34.7	54	-19.3	-	-	25	146	H
3	* 11.712	35.28	PKFH	38.5	-23.4	50.38	-	-	74	-23.62	229	204	H
	* 11.71	23.03	VA1T	38.5	-23.3	38.23	54	-15.77	-	-	229	204	H
4	* 4.232	41.16	PKFH	33.5	-30.1	44.56	-	-	74	-29.44	250	221	V
	* 4.232	28.37	VA1T	33.5	-30.1	31.77	54	-22.23	-	-	250	221	V
5	* 9.171	36.08	PKFH	36.2	-23.9	48.38	-	-	74	-25.62	303	330	V
	* 9.17	23.84	VA1T	36.2	-23.9	36.14	54	-17.86	-	-	303	330	V
6	* 11.875	34.67	PKFH	38.7	-22.7	50.67	-	-	74	-23.33	66	322	V
	* 11.876	23.21	VA1T	38.7	-22.7	39.21	54	-14.79	-	-	66	322	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

UL VERIFICATION SERVICES INC.
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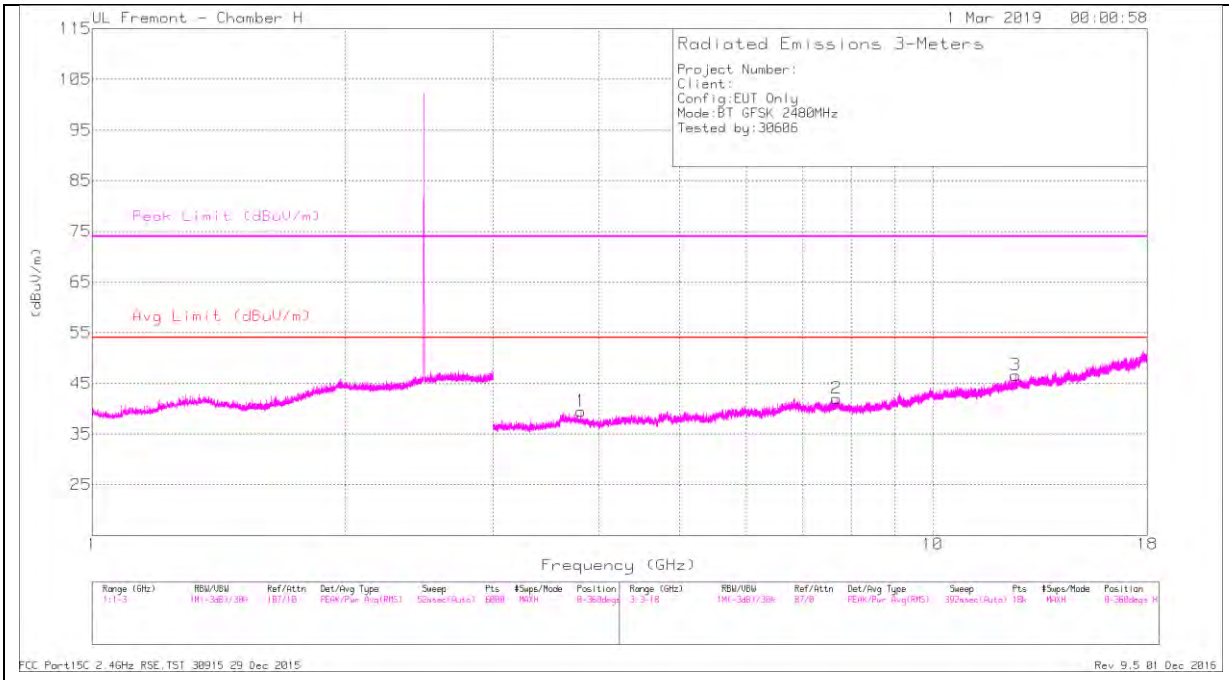
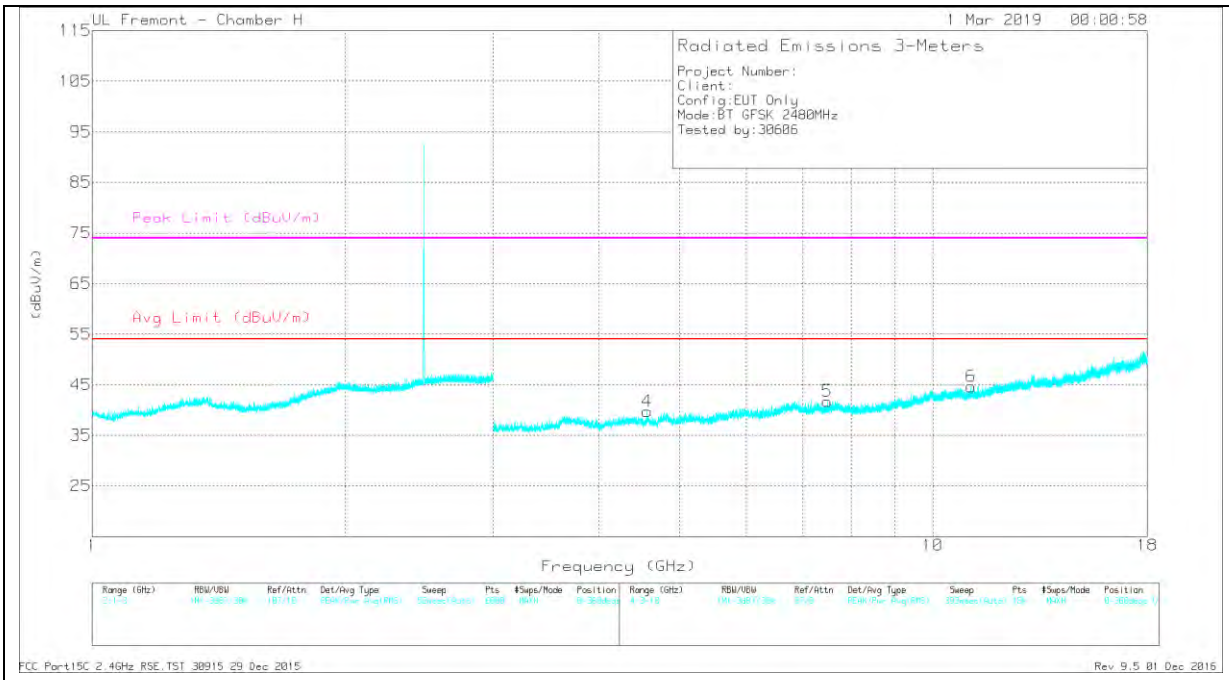
HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

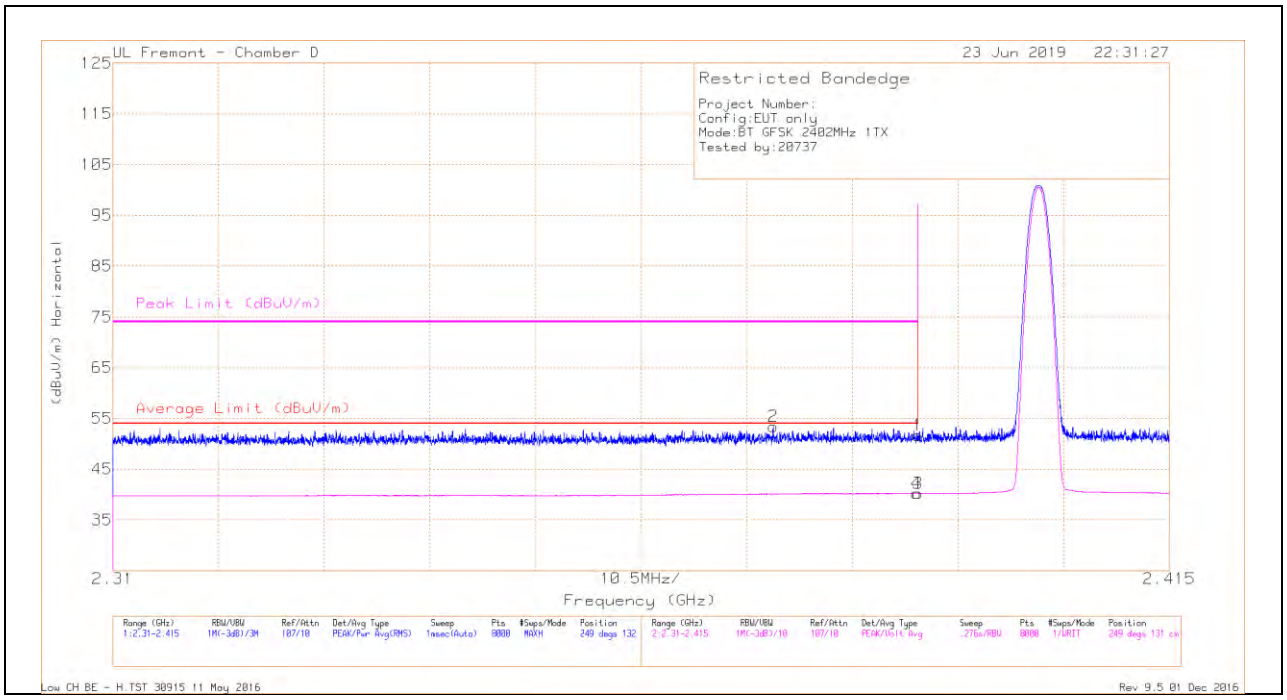
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.814	41.6	PKFH	33.4	-31	44	-	-	74	-30	35	277	H
	* 3.817	29.56	VA1T	33.4	-31	31.96	54	-22.04	-	-	35	277	H
2	* 7.682	37.11	PKFH	36.6	-26.8	46.91	-	-	74	-27.09	86	124	H
	* 7.682	25.42	VA1T	36.6	-26.8	35.22	54	-18.78	-	-	86	124	H
3	* 12.551	35.58	PKFH	39.2	-23.1	51.68	-	-	74	-22.32	58	260	H
	* 12.547	23.28	VA1T	39.2	-23.1	39.38	54	-14.62	-	-	58	260	H
4	* 4.575	41.6	PKFH	34.1	-30.2	45.5	-	-	74	-28.5	132	264	V
	* 4.576	28.87	VA1T	34.1	-30.2	32.77	54	-21.23	-	-	132	264	V
5	* 7.496	38.51	PKFH	36.5	-27.6	47.41	-	-	74	-26.59	29	222	V
	* 7.496	25.81	VA1T	36.5	-27.6	34.71	54	-19.29	-	-	29	222	V
6	* 11.107	35.04	PKFH	37.8	-23.1	49.74	-	-	74	-24.26	10	294	V
	* 11.108	23.12	VA1T	37.8	-23.1	37.82	54	-16.18	-	-	10	294	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

Antenna 5

BANDEDGE (LOW CHANNEL)

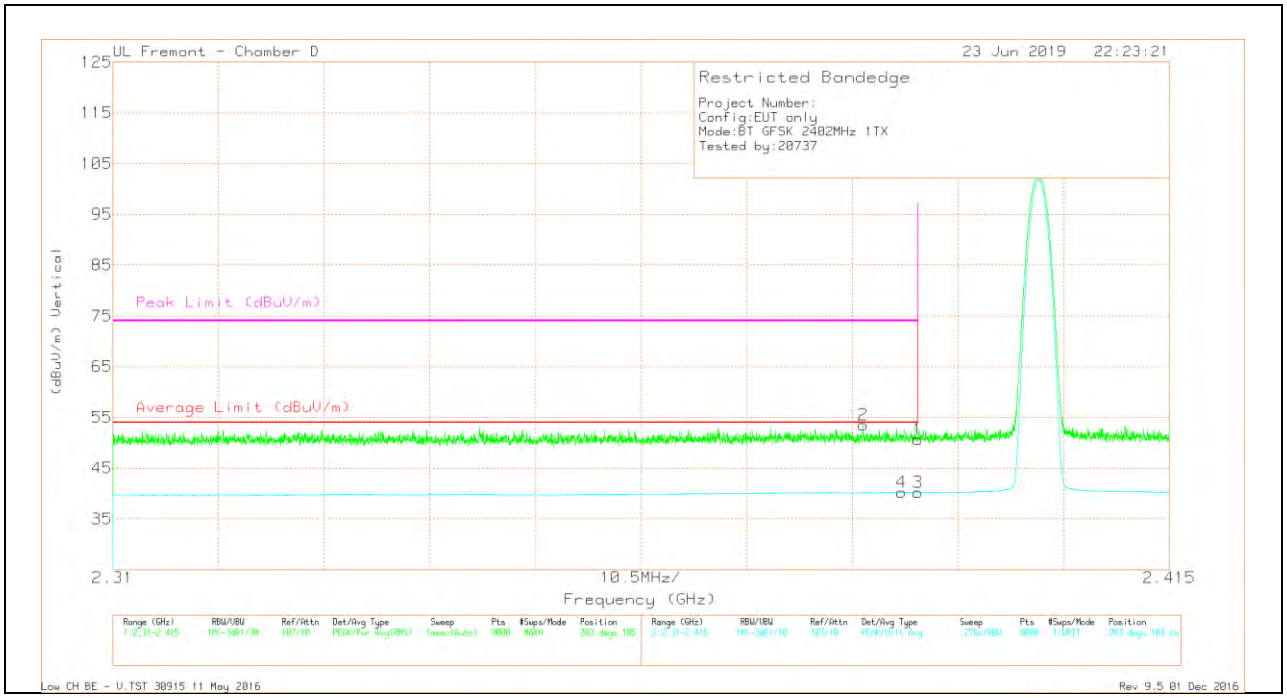
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.28	Pk	32	-20.6	51.68	-	-	74	-22.32	249	132	H
2	* 2.376	42.12	Pk	31.9	-20.6	53.42	-	-	74	-20.58	249	132	H
3	* 2.39	28.84	VA1T	32	-20.6	40.24	54	-13.76	-	-	249	131	H
4	* 2.39	28.86	VA1T	32	-20.6	40.26	54	-13.74	-	-	249	131	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

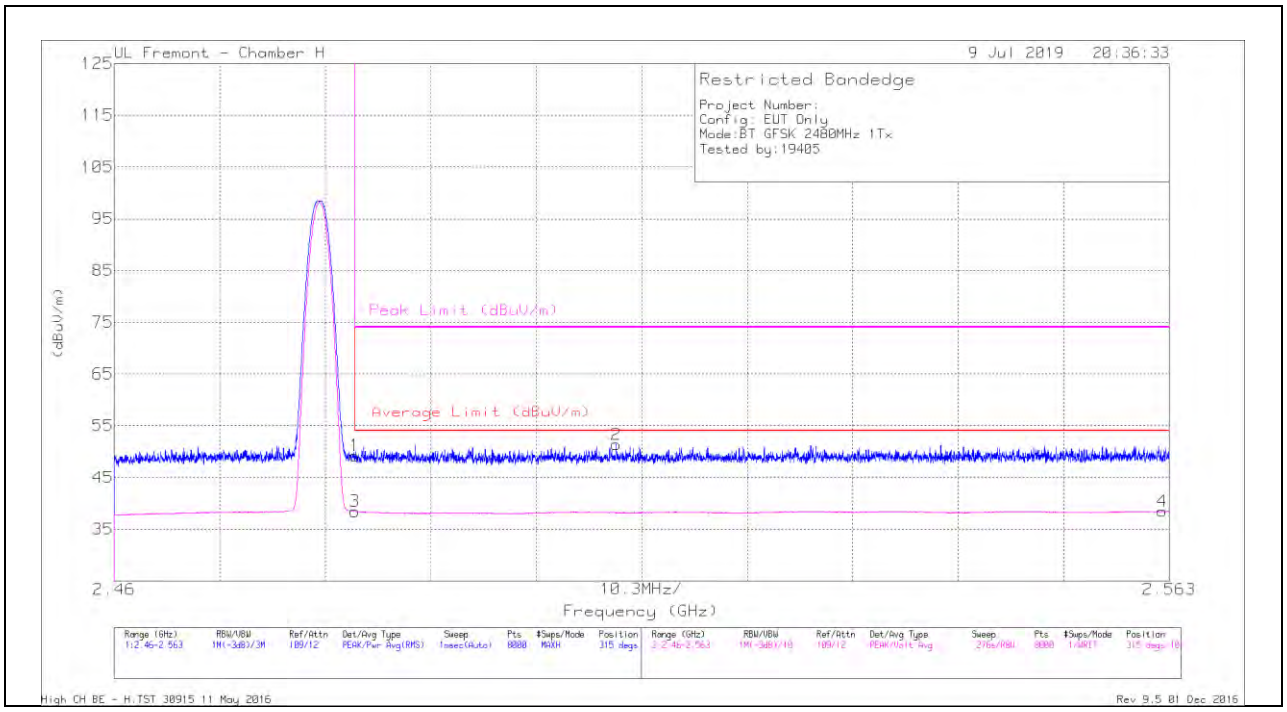


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.23	Pk	32	-20.6	50.63	-	-	74	-23.37	203	105	V
2	* 2.385	42.17	Pk	32	-20.7	53.47	-	-	74	-20.53	203	105	V
3	* 2.39	28.82	VA1T	32	-20.6	40.22	54	-13.78	-	-	203	104	V
4	* 2.388	28.85	VA1T	32	-20.6	40.25	54	-13.75	-	-	203	104	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.22	Pk	32.5	-21.5	49.22	-	-	74	-24.78	315	102	H
3	* 2.484	27.44	VA1T	32.5	-21.5	38.44	54	-15.56	-	-	315	102	H
2	2.509	40.07	Pk	32.6	-21.3	51.37	-	-	74	-22.63	315	102	H
4	2.562	27.06	VA1T	32.5	-21.1	38.46	54	-15.54	-	-	315	102	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