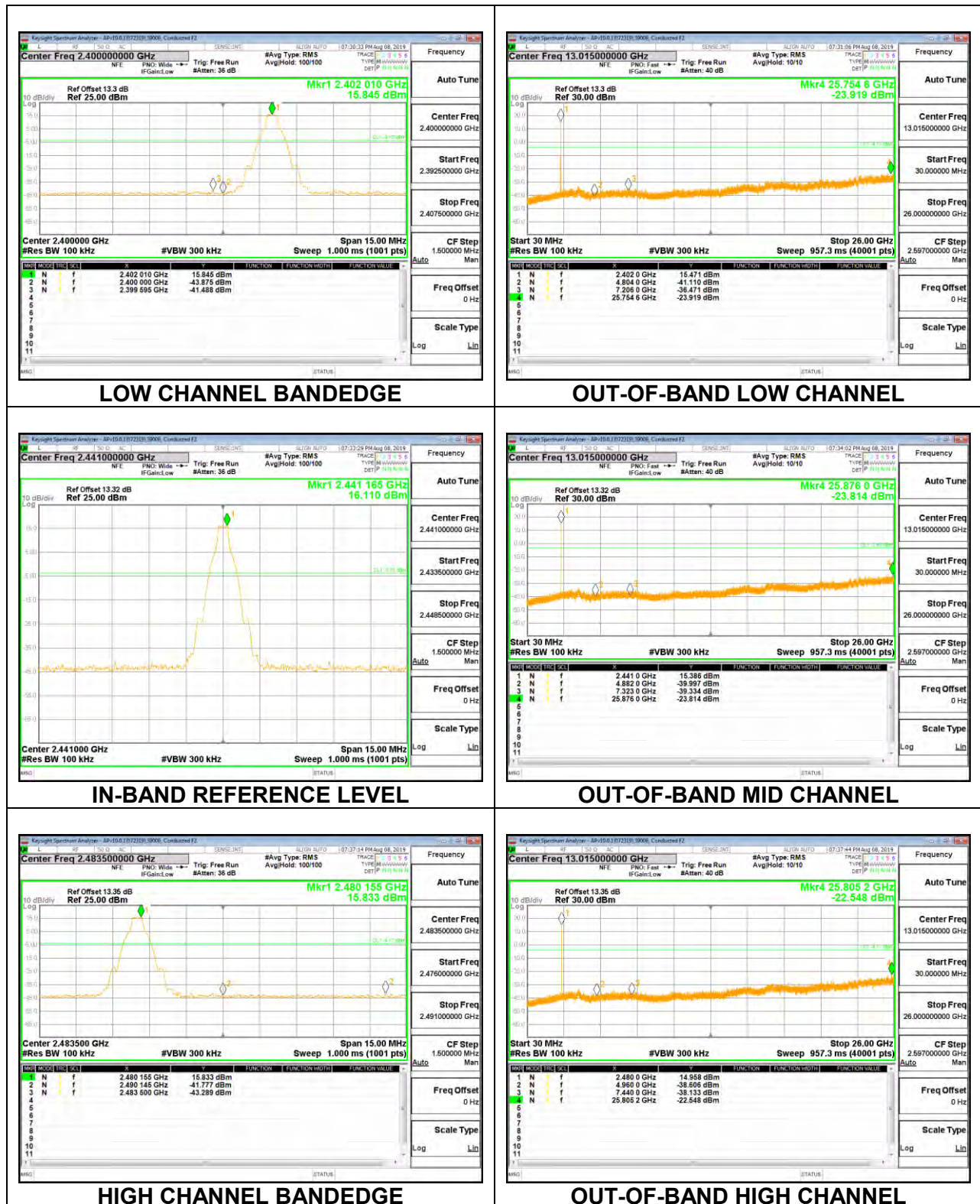


8.14.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

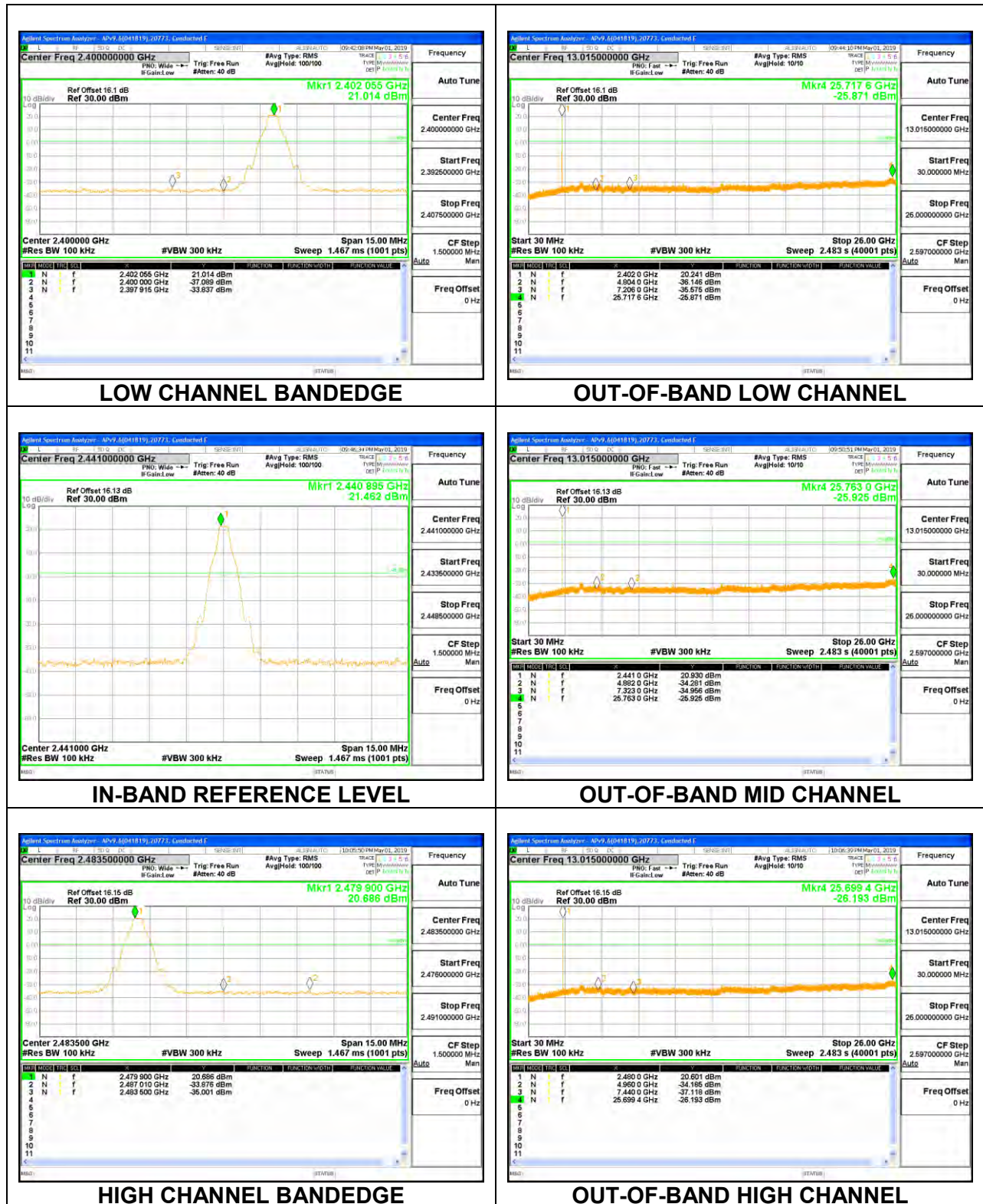
Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING

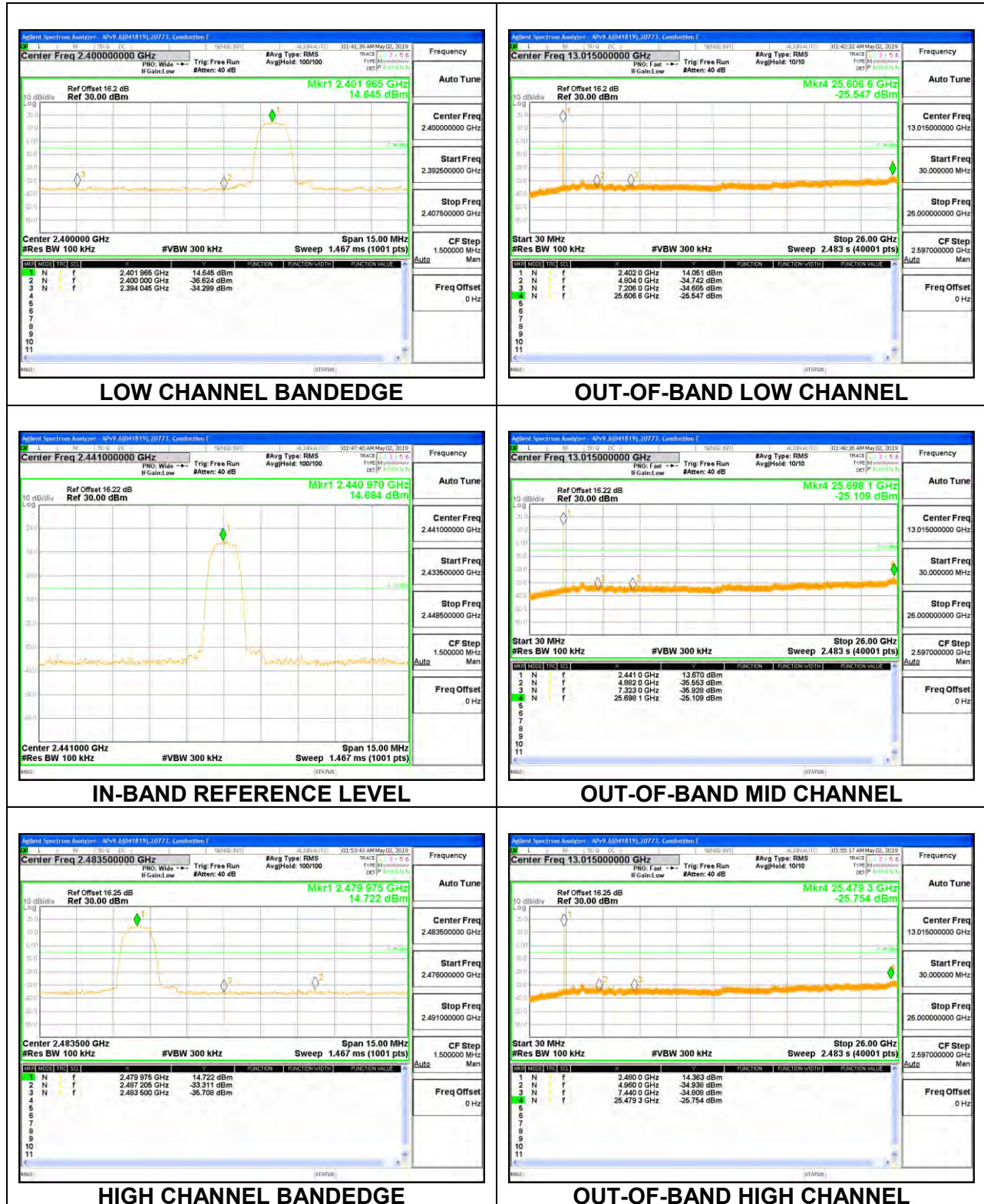


Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

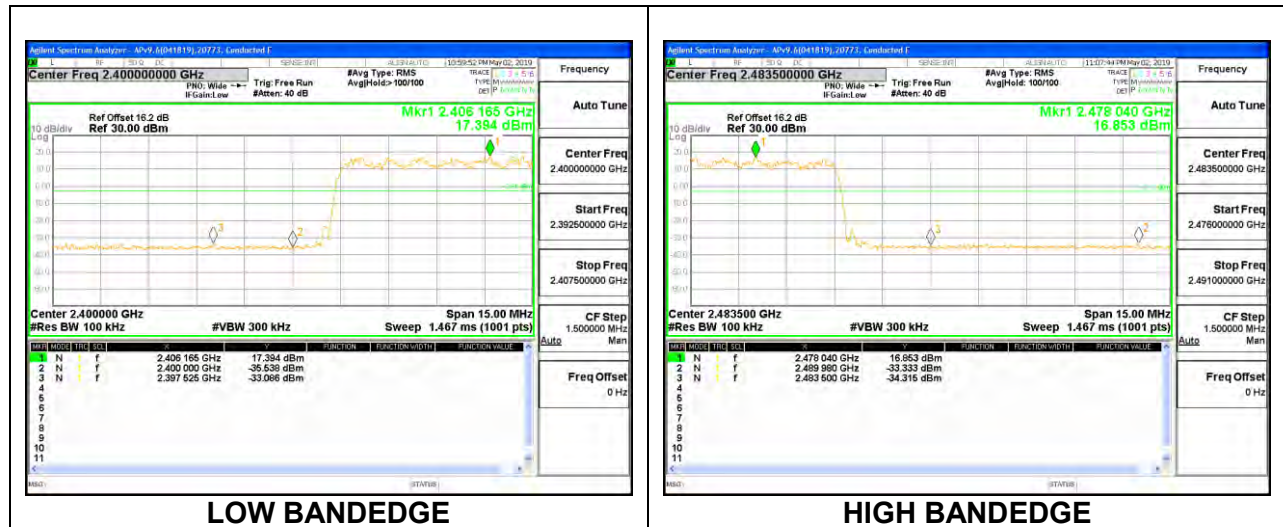


8.14.2. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

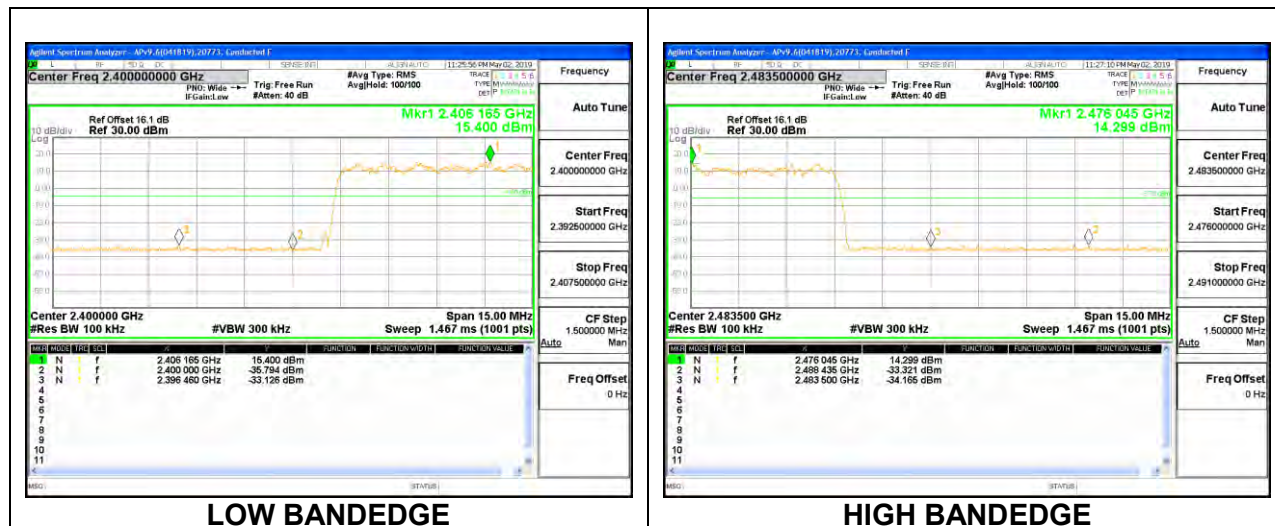
Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

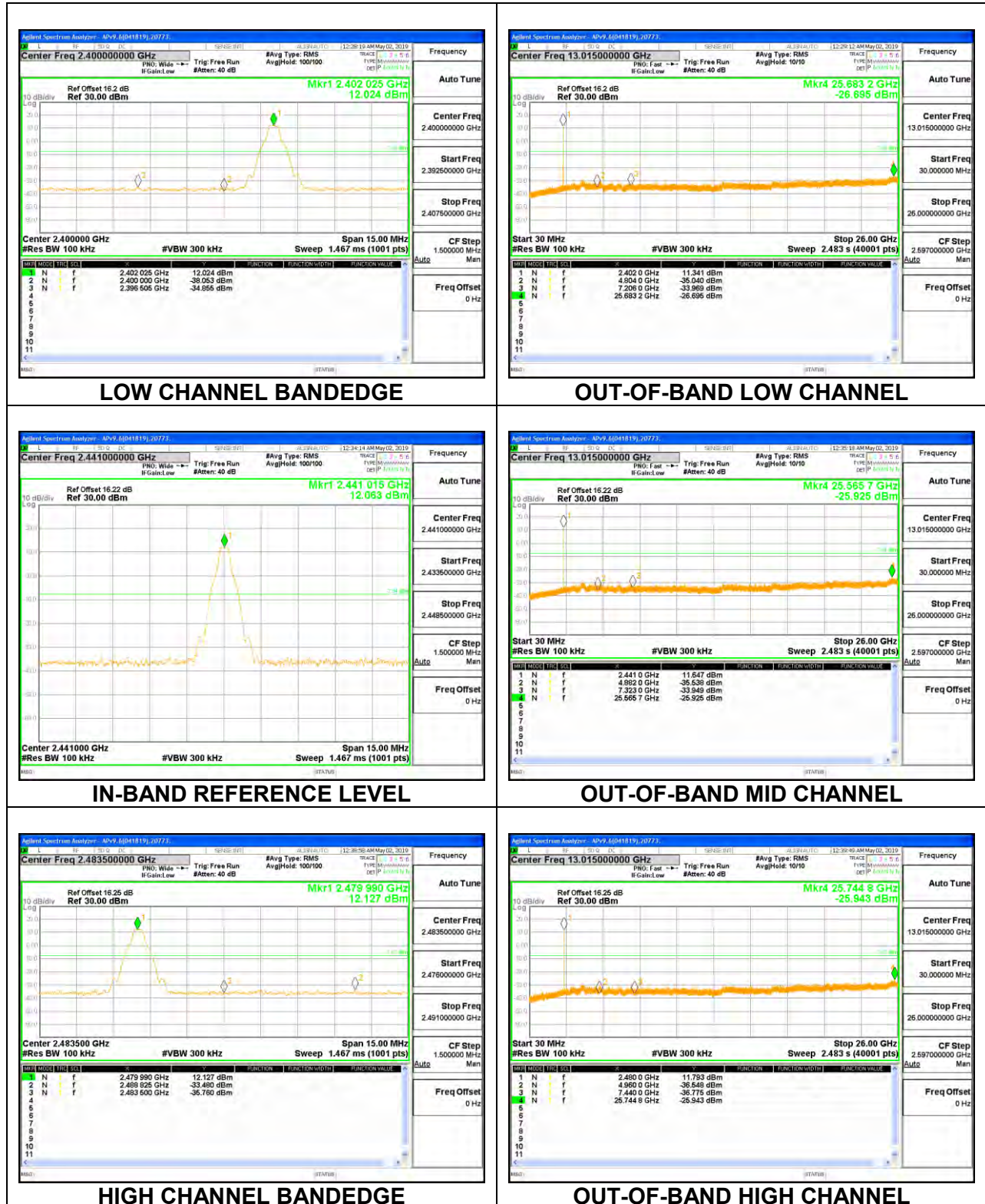


Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

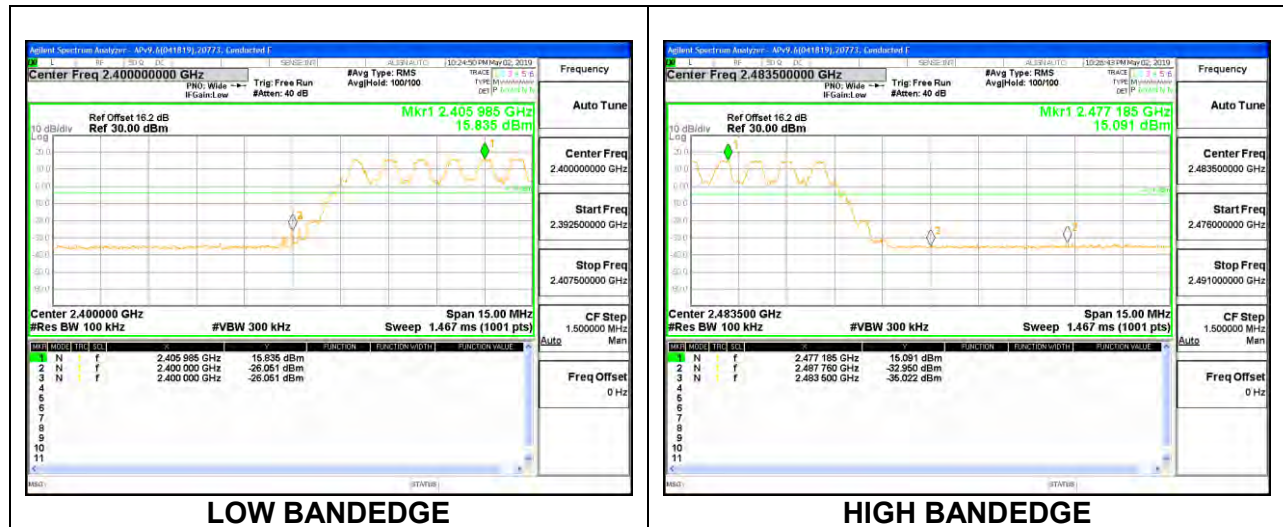


8.14.3. LOW POWER BASIC DATA RATE GFSK MODULATION

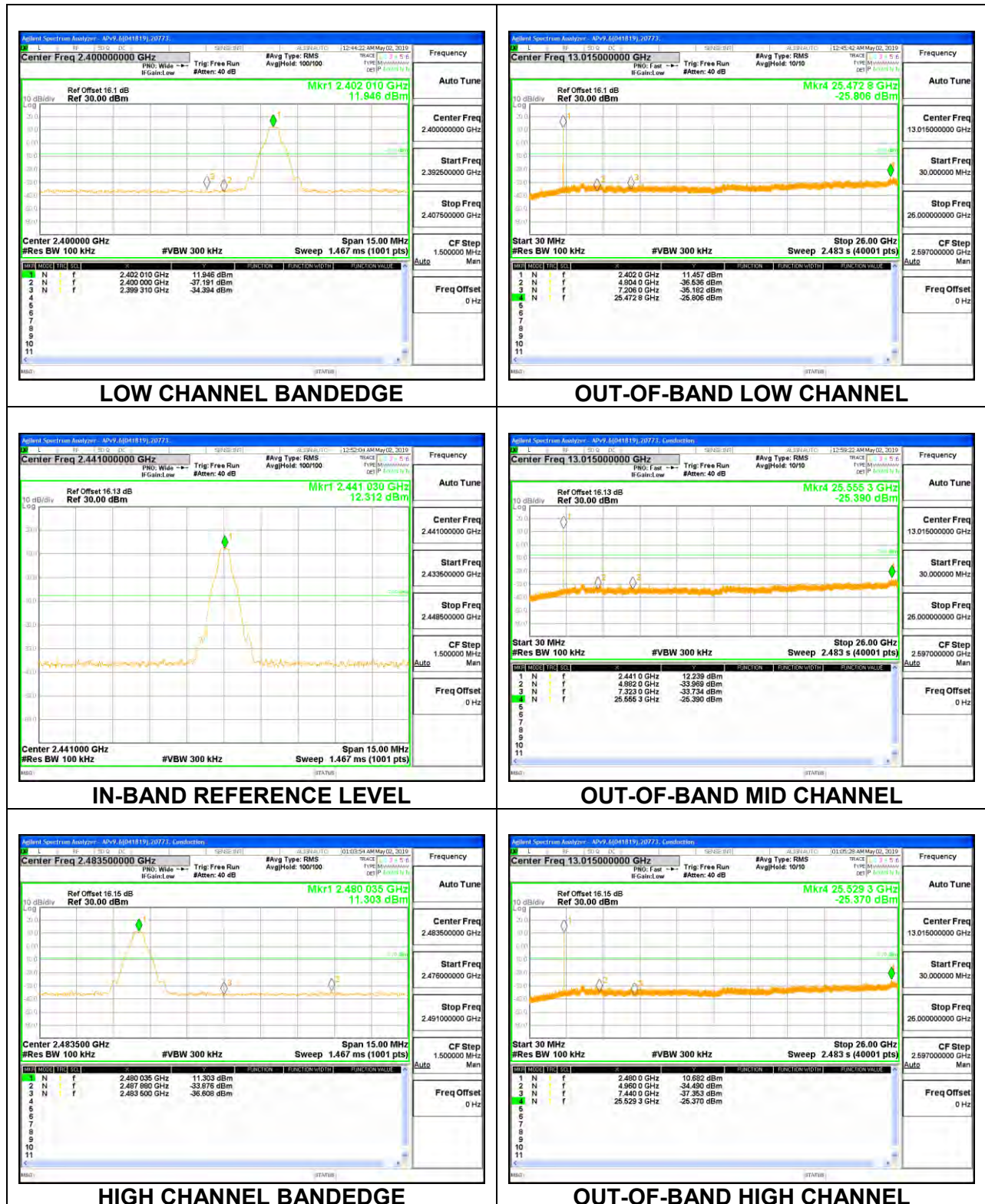
Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



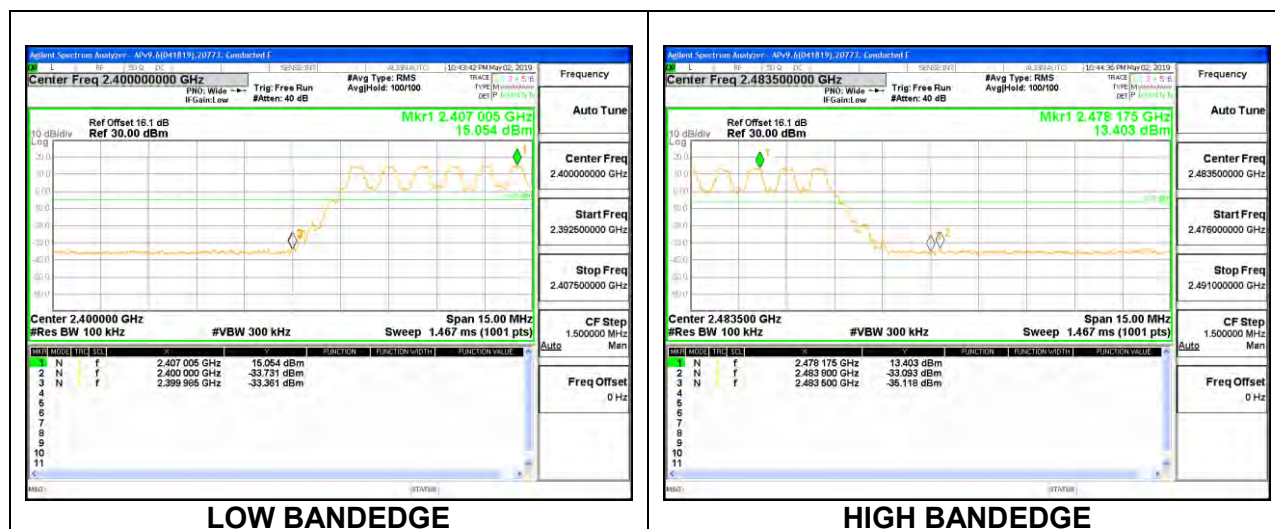
Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING

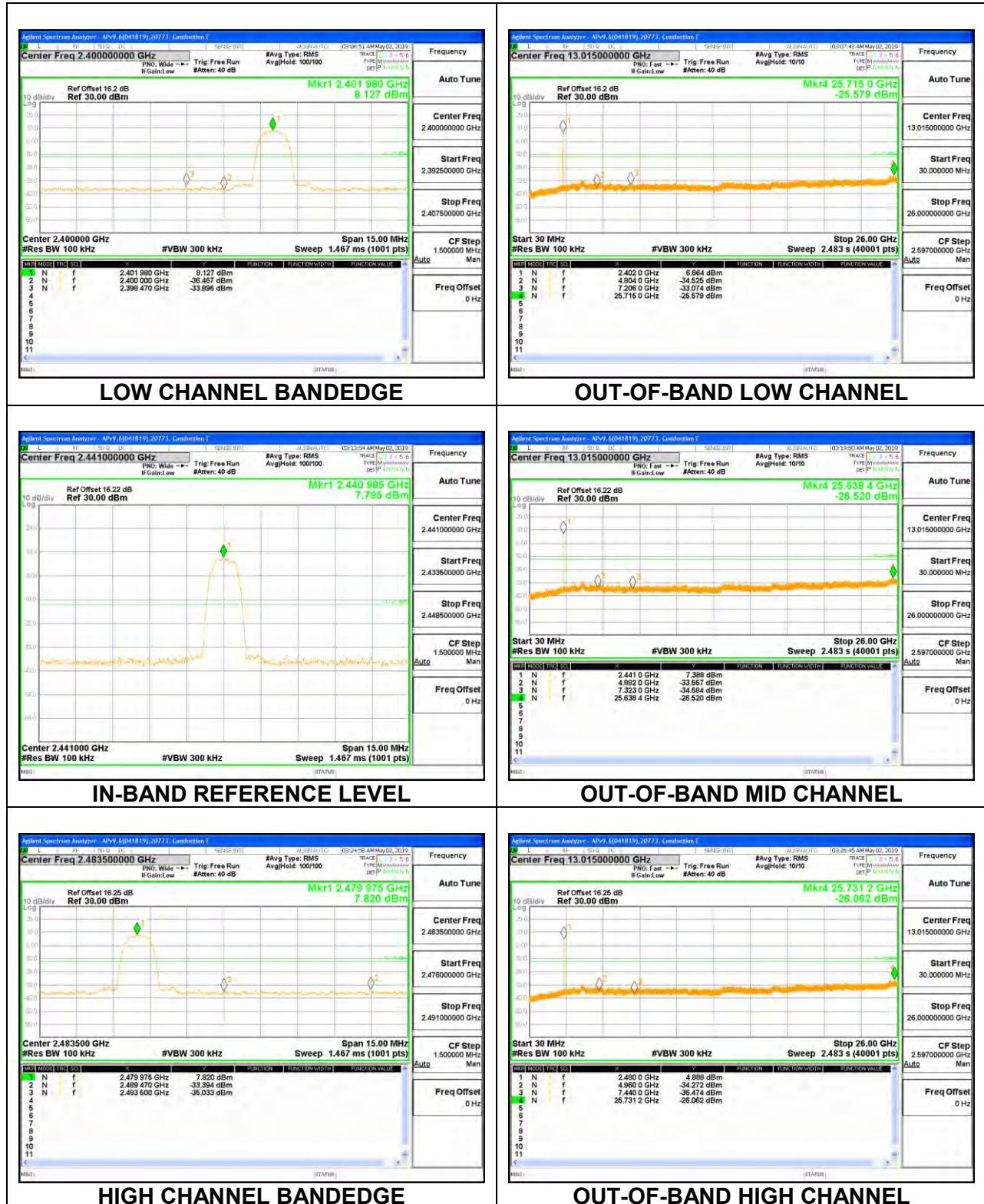


Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

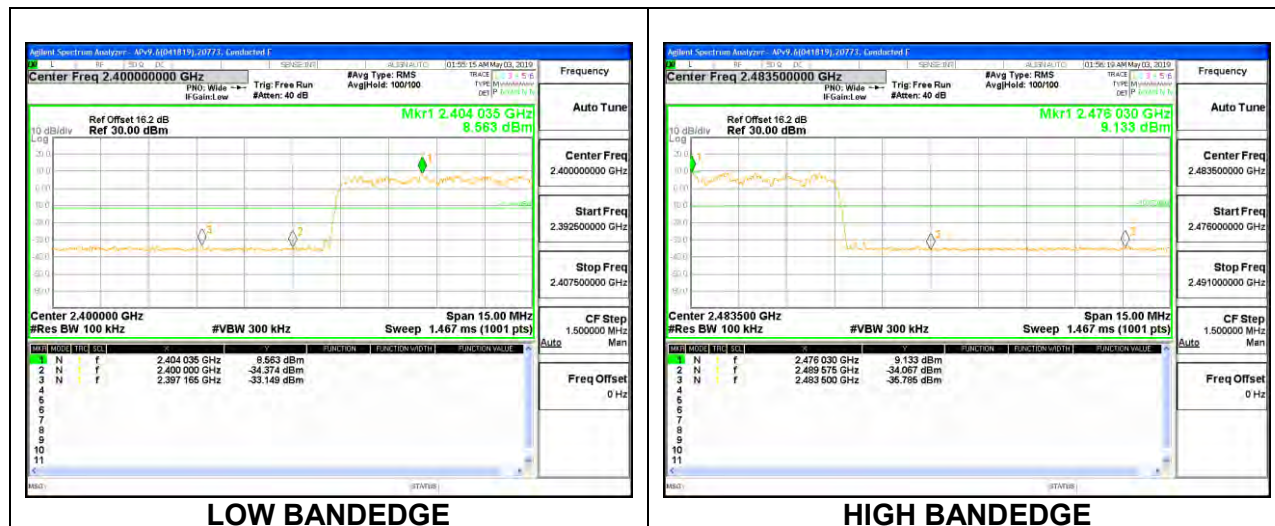


8.14.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

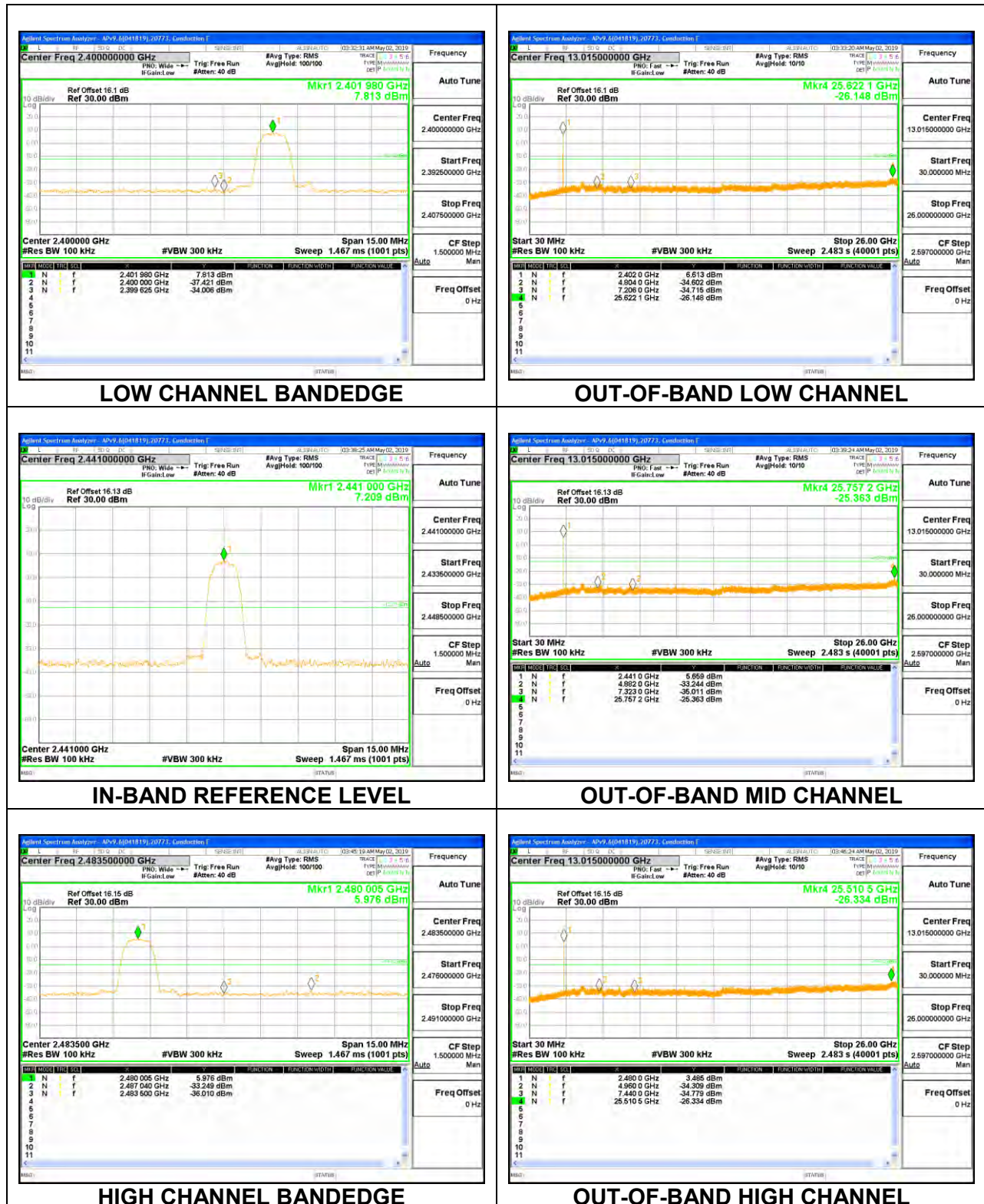
Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



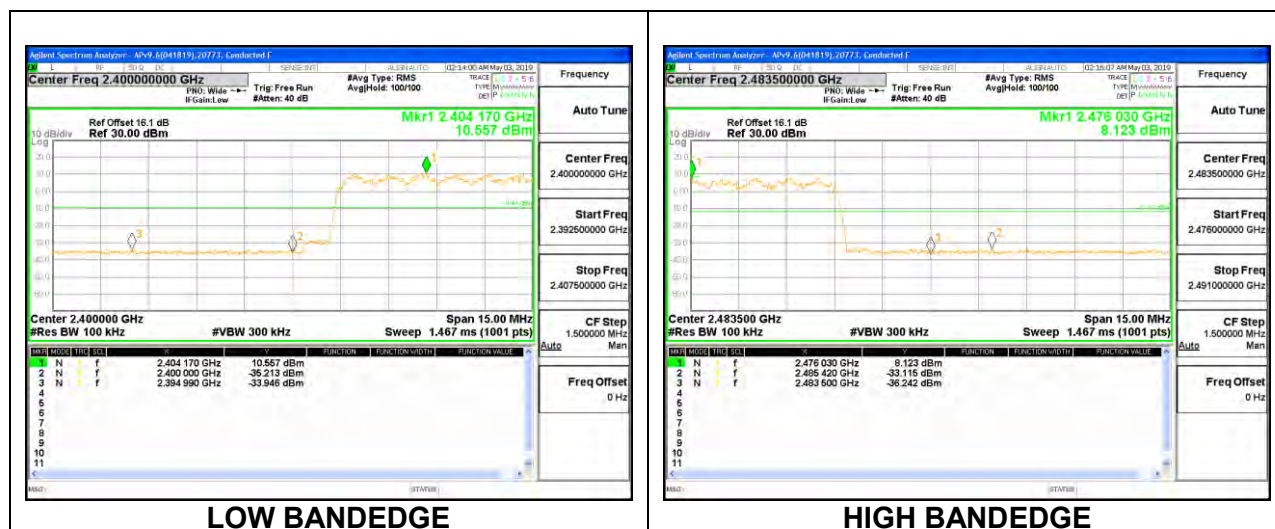
Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING



Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

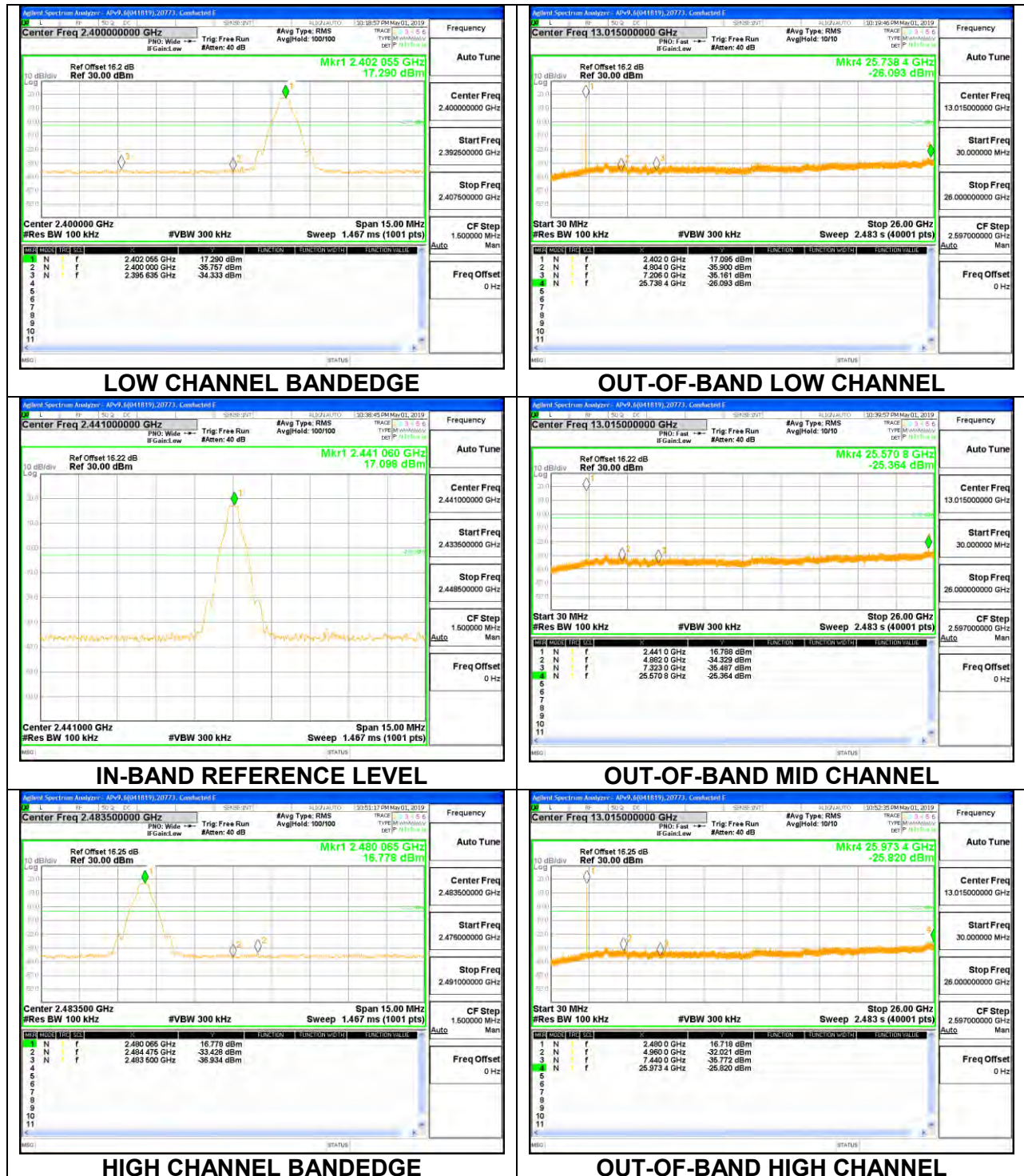


8.15. BEAMFORMING CONDUCTED SPURIOUS EMISSIONS

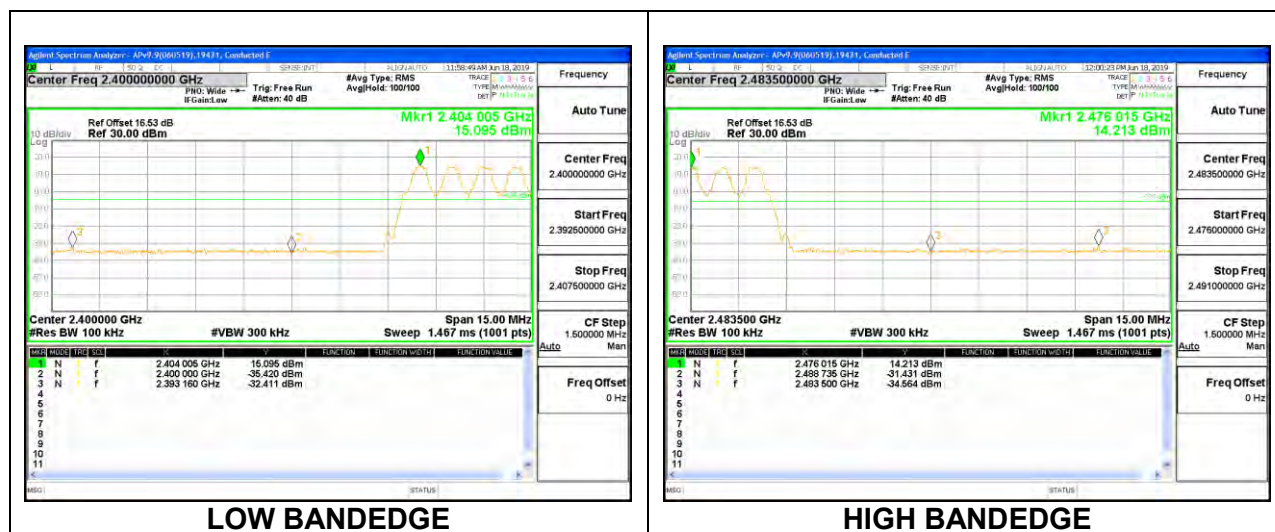
Note: Test procedures and setting on beamforming mode are same as BT basic and EDR mode

8.15.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

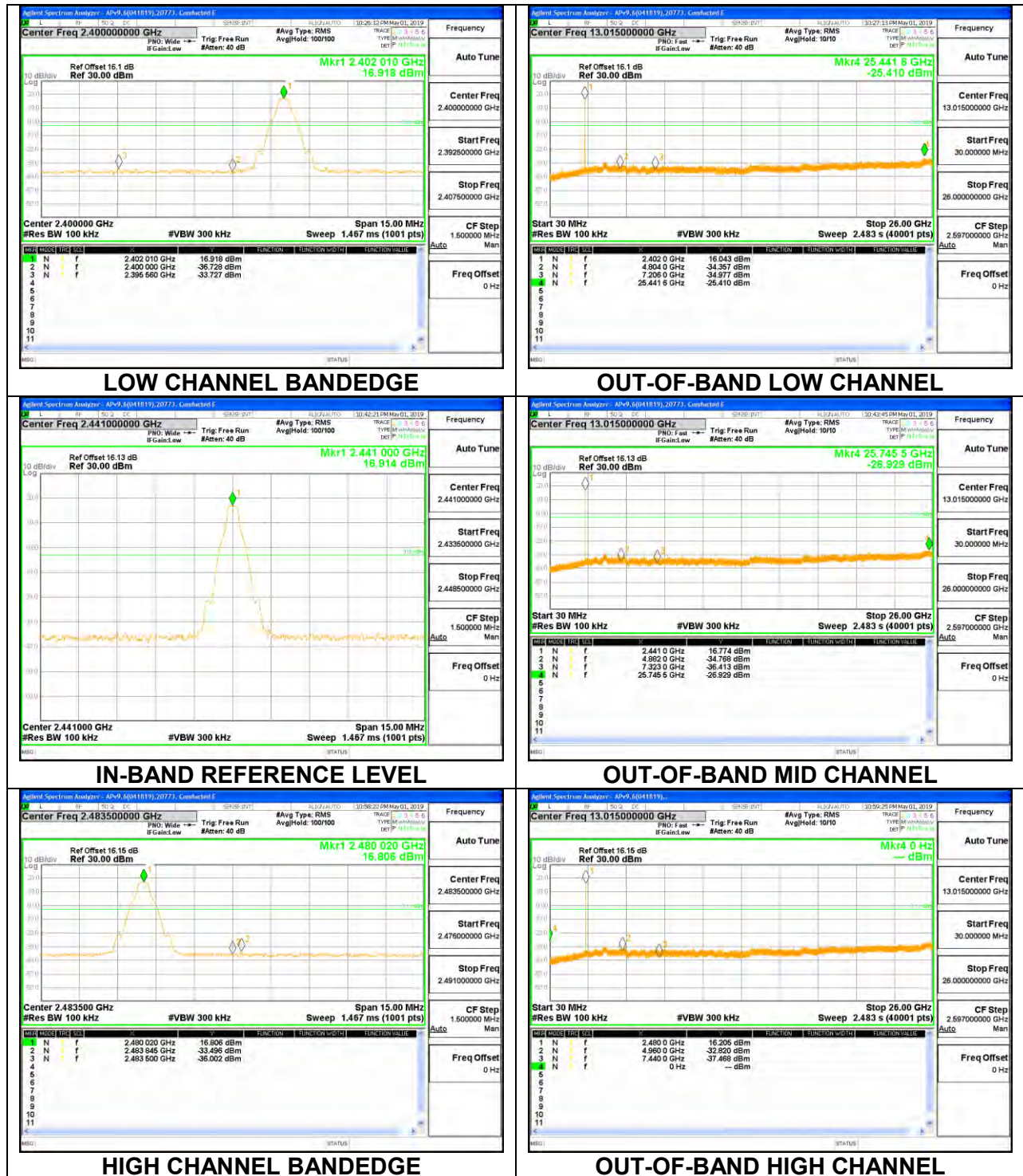
Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



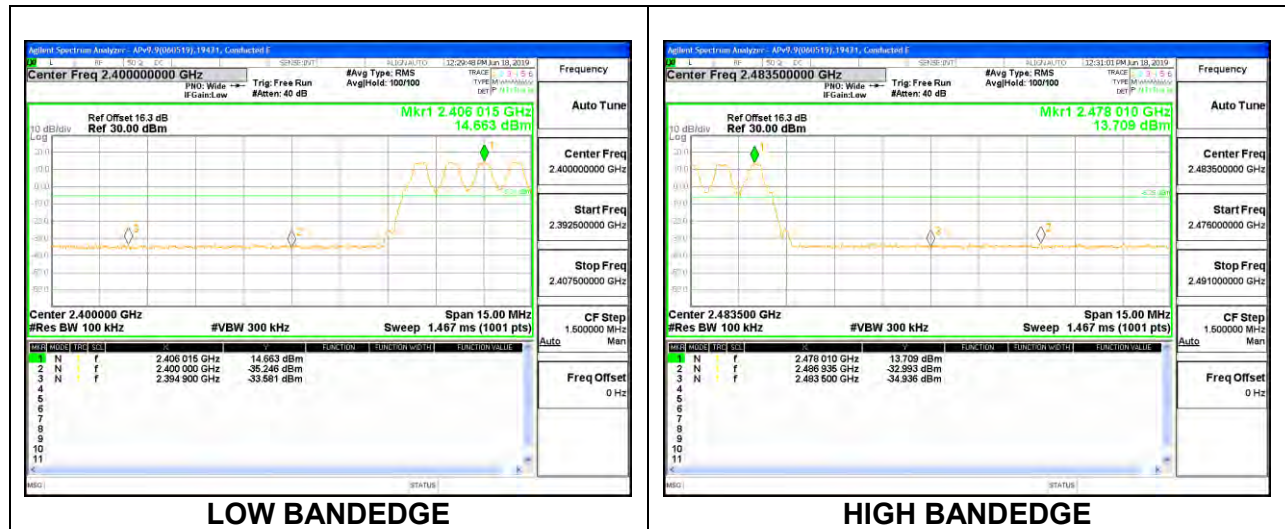
Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING



Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



8.15.2. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

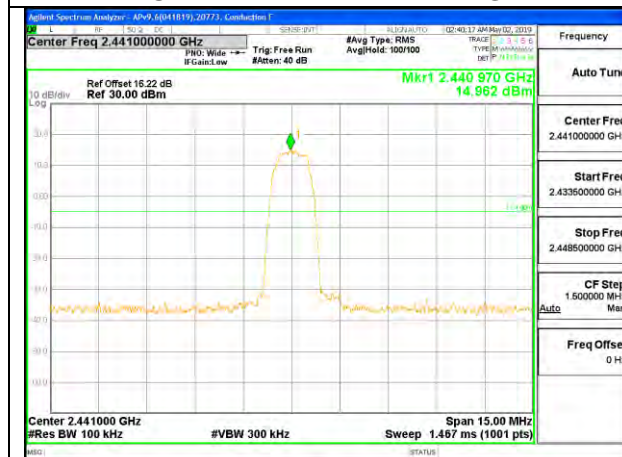
Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



LOW CHANNEL BANDEDGE



OUT-OF-BAND LOW CHANNEL



IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE

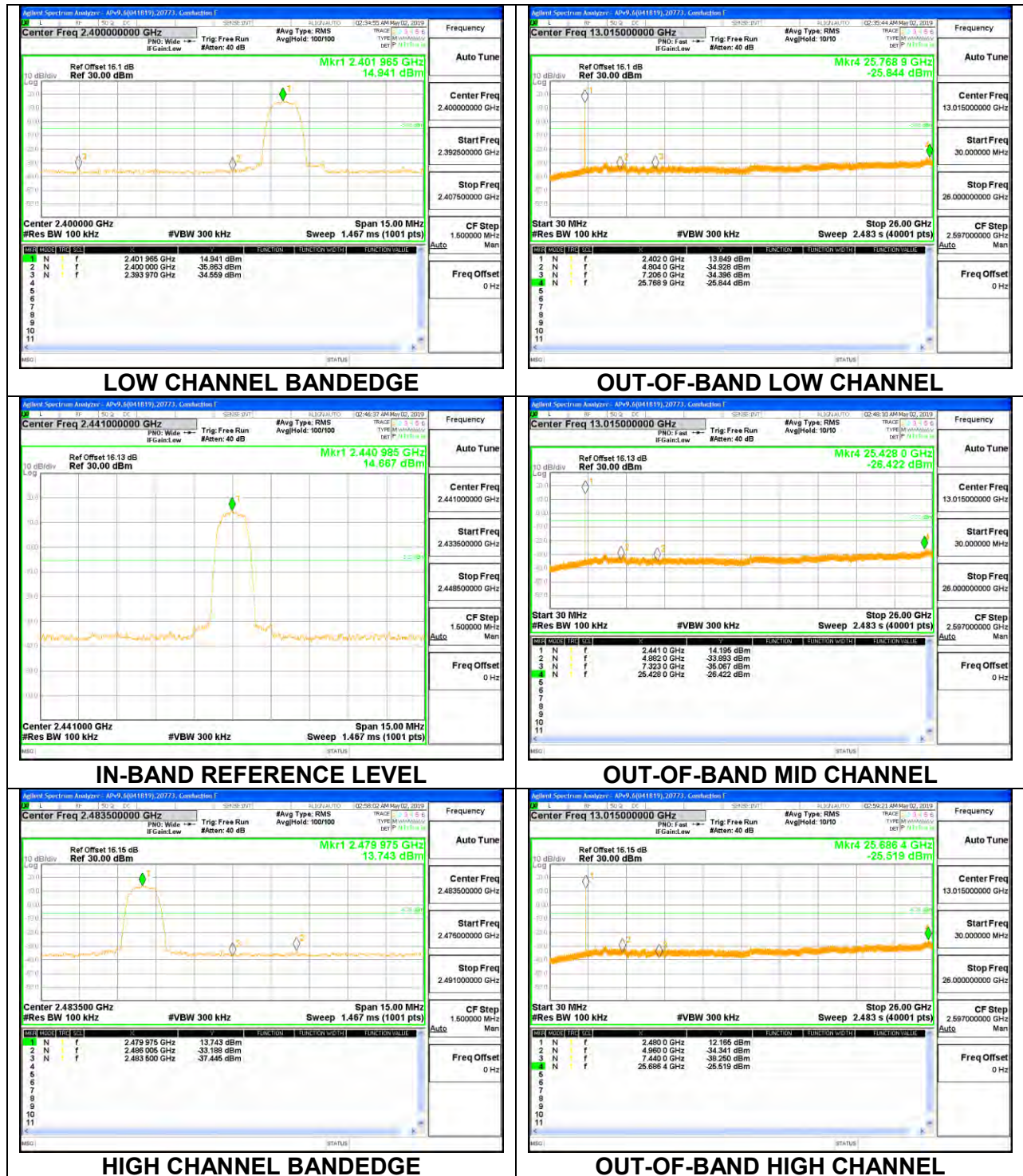


OUT-OF-BAND HIGH CHANNEL

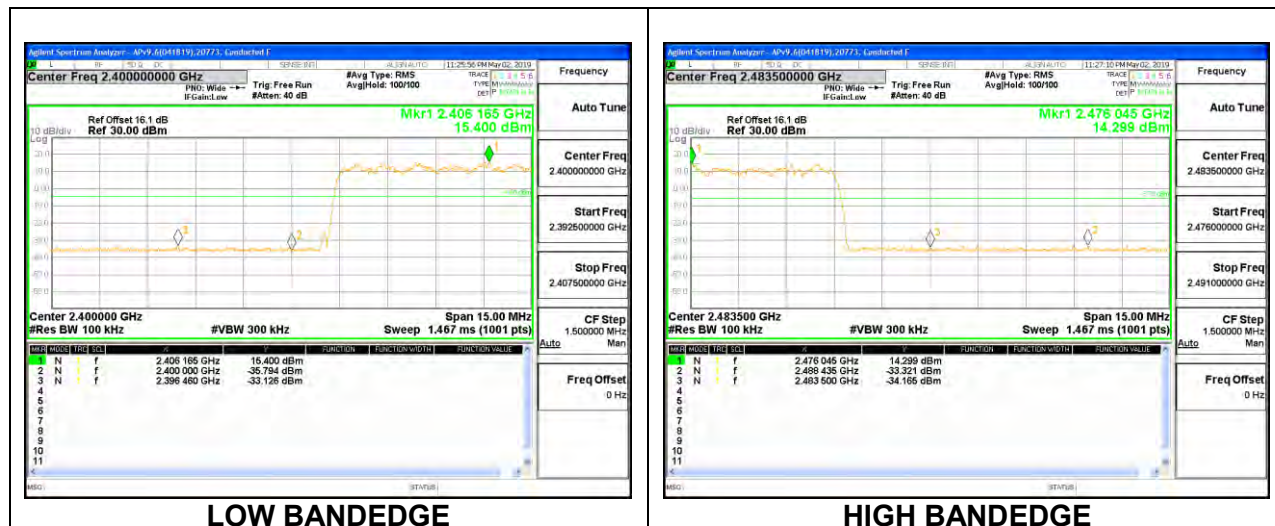
Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING

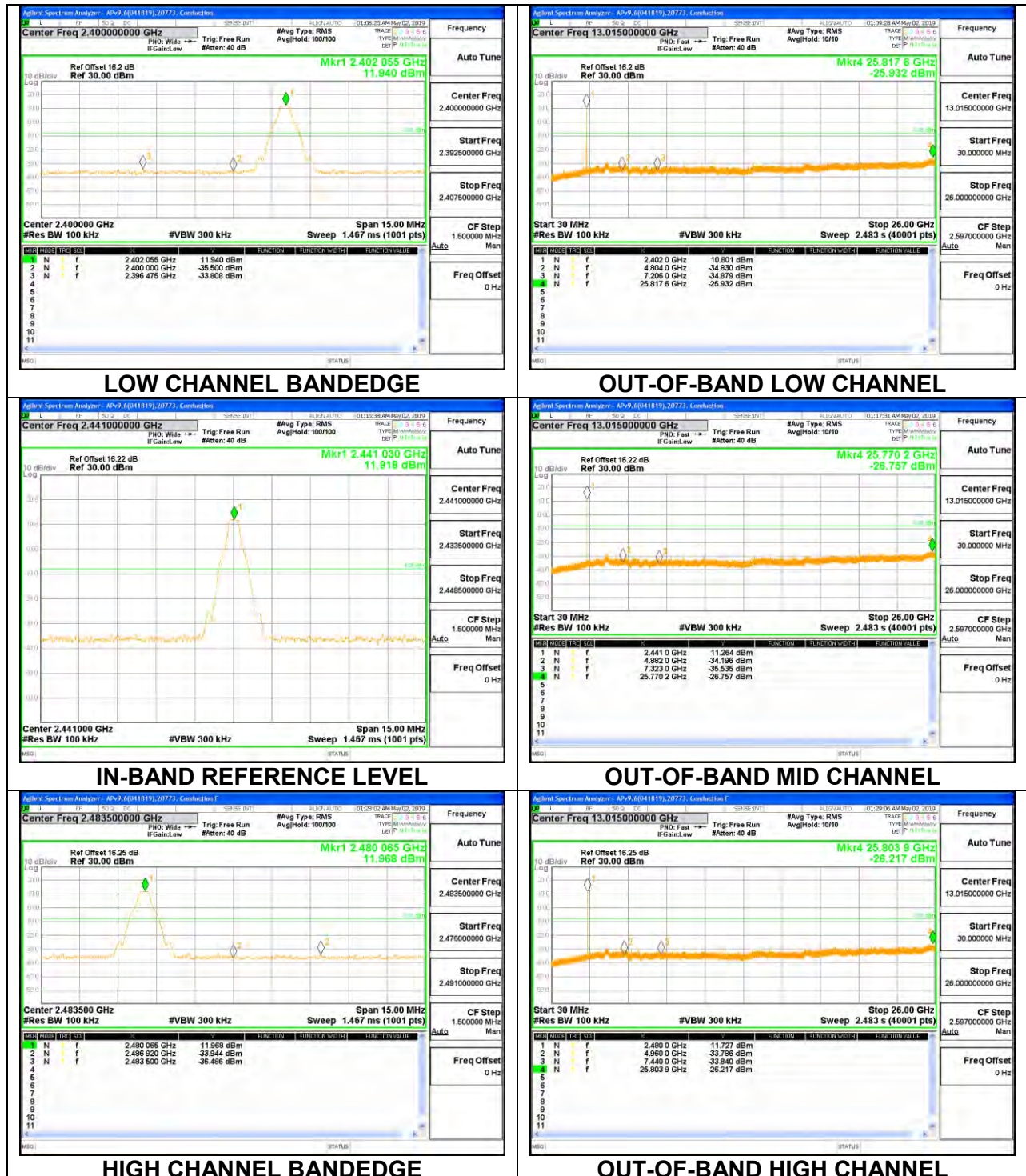


Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

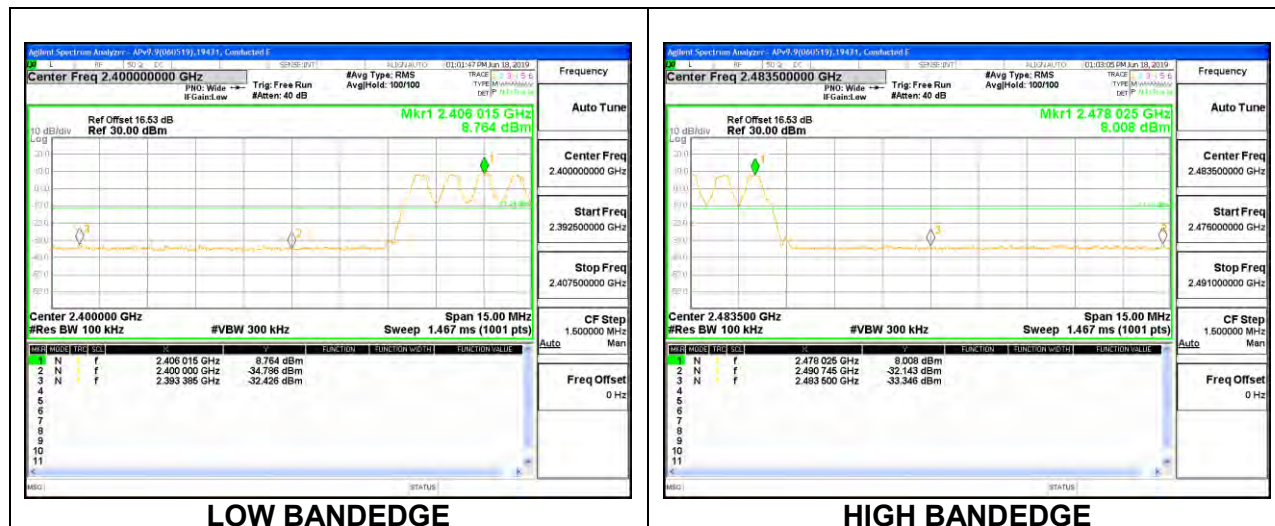


8.15.3. LOW POWER BASIC DATA RATE GFSK MODULATION

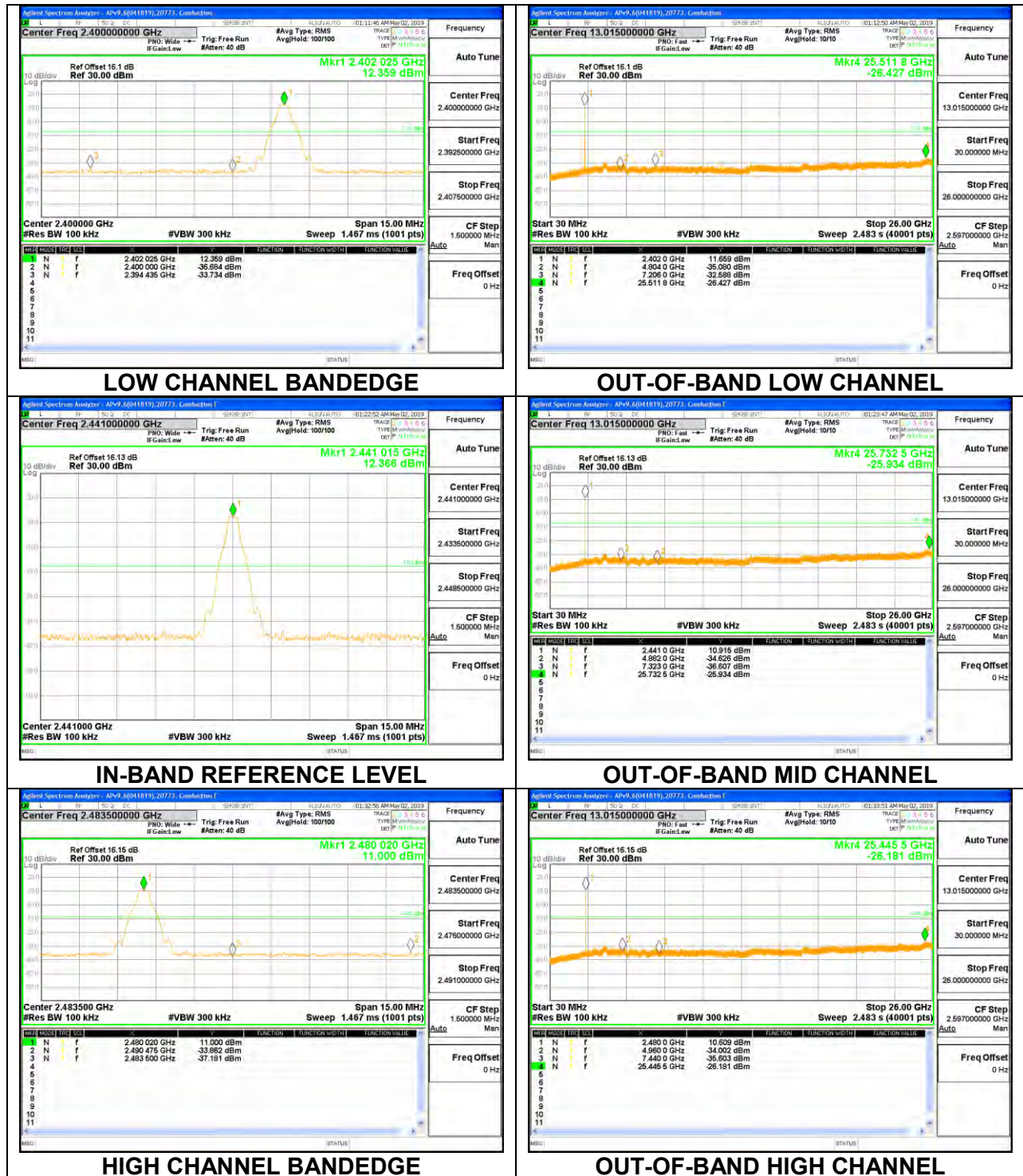
Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



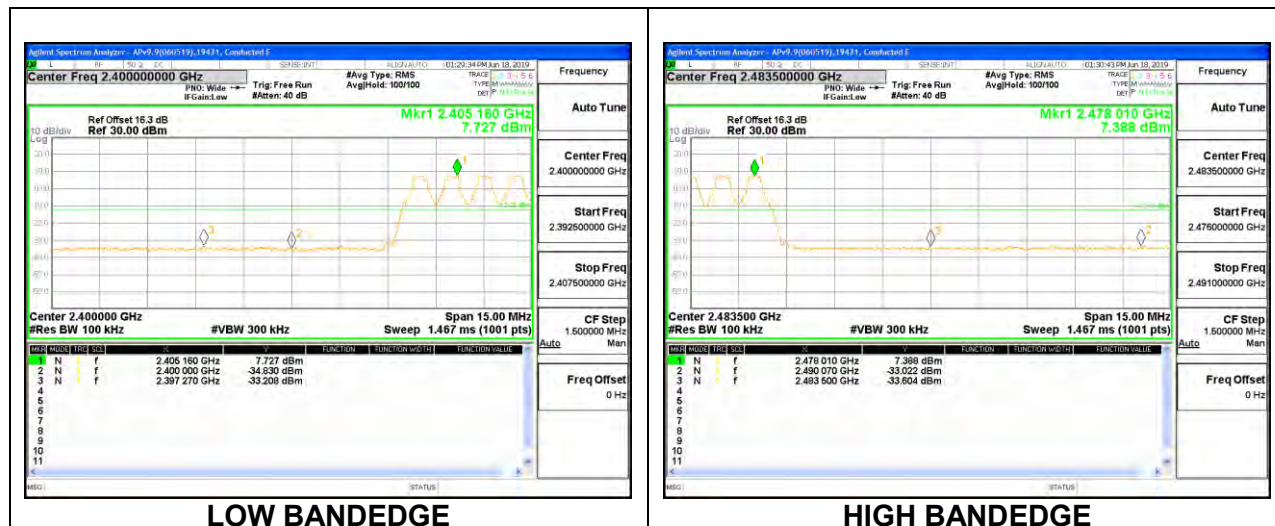
Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING

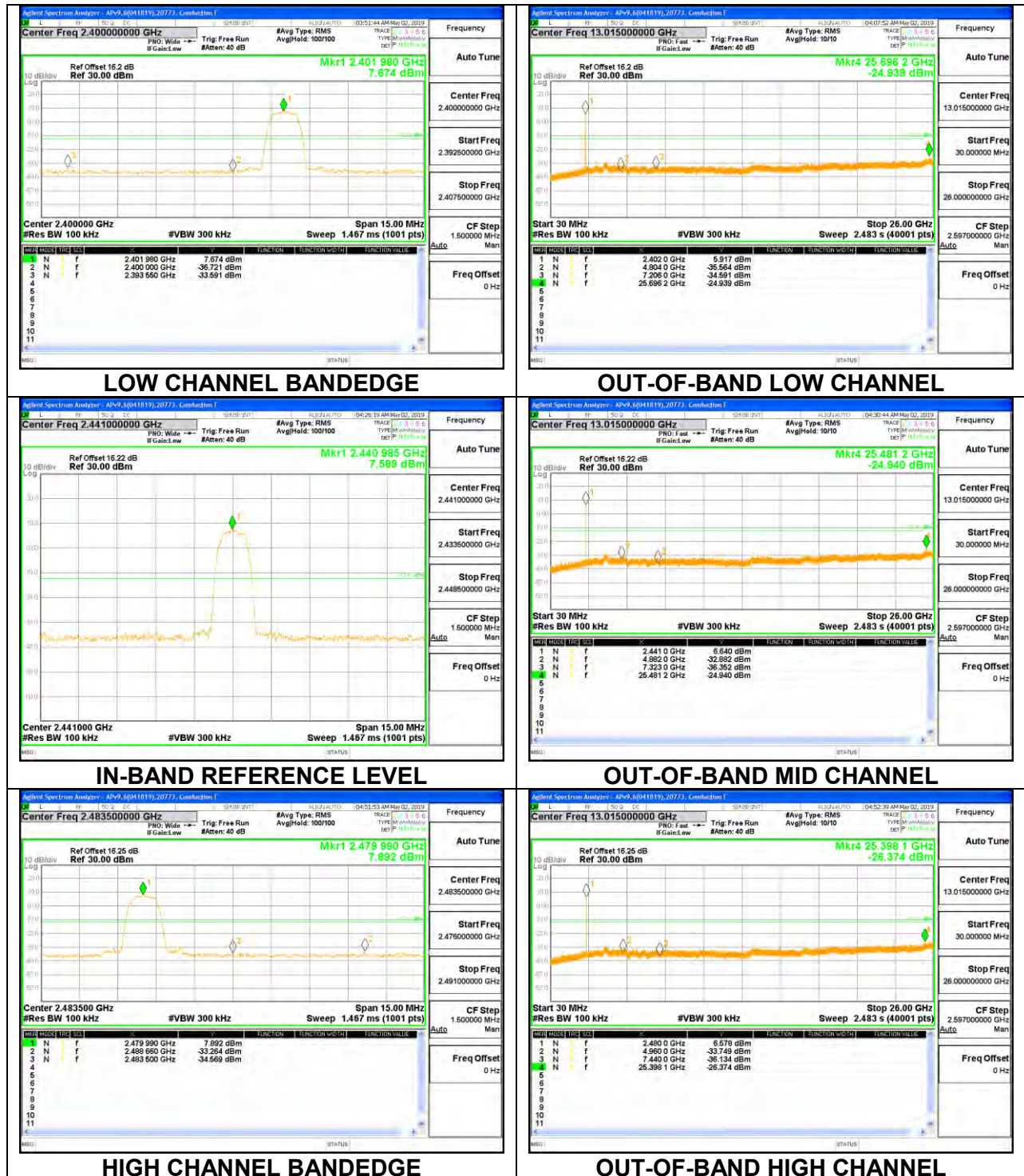


Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



8.15.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

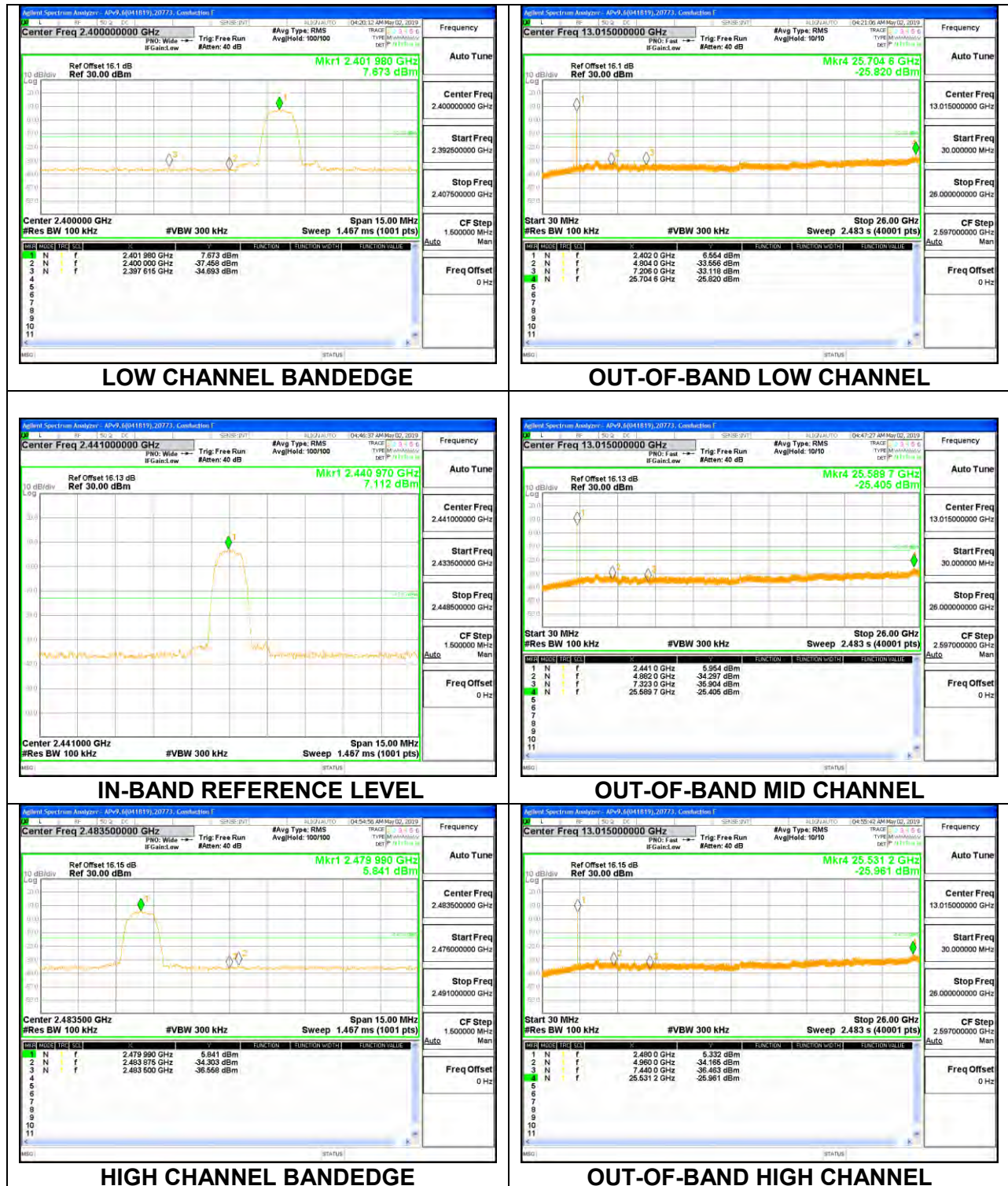
Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



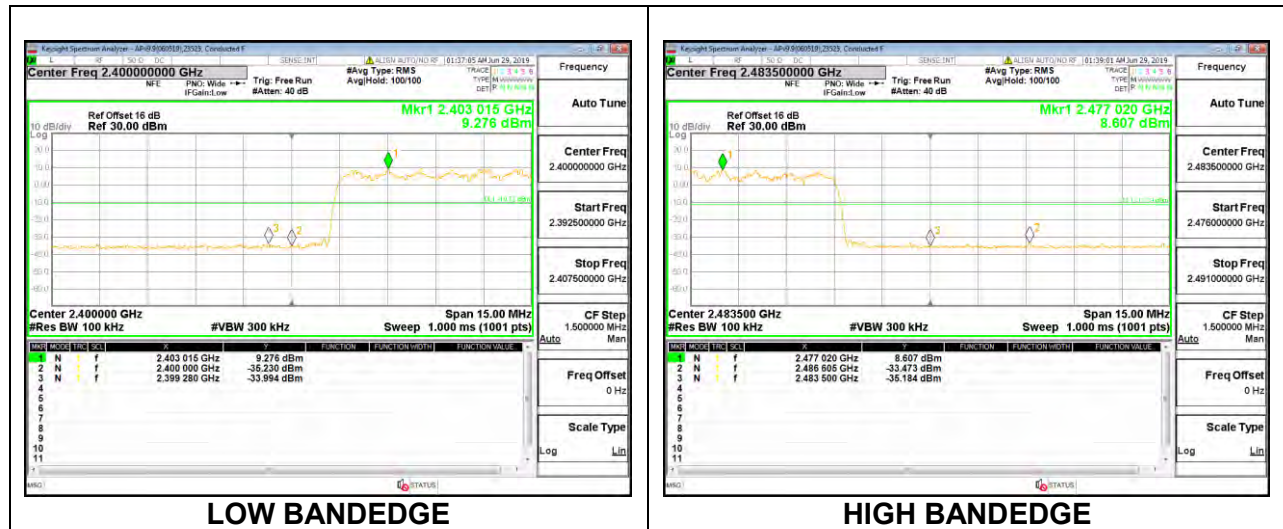
Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON (fund higher than ePa)



Antenna 3 SPURIOUS EMISSIONS, NON-HOPPING



Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



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 measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T 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.

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.

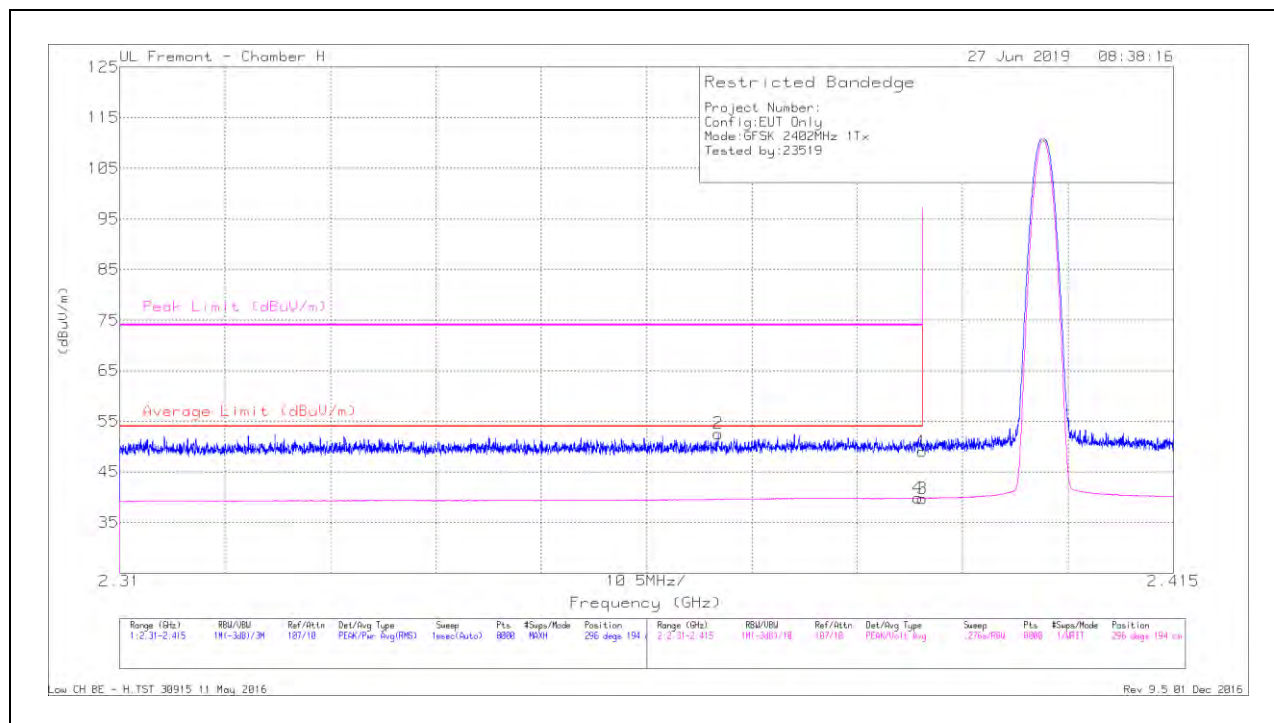
9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

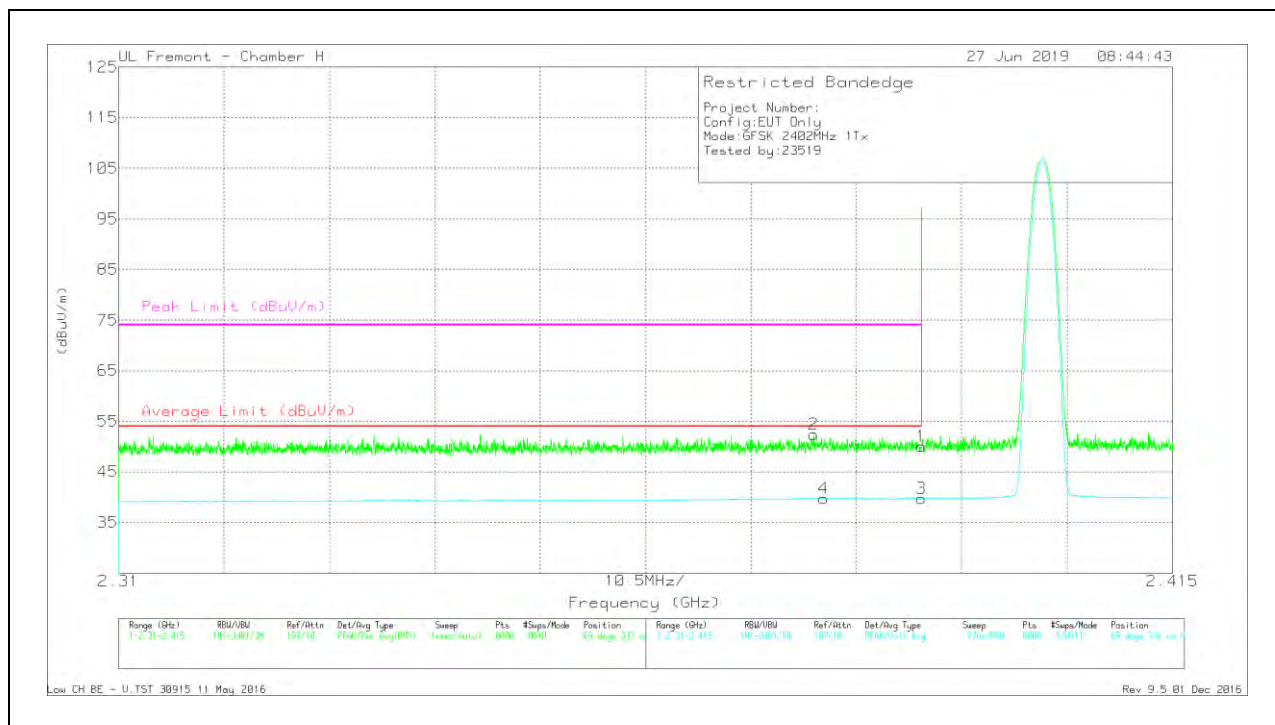


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.44	Pk	32.1	-23.5	49.04	-	-	74	-24.96	296	194	H
2	* 2.37	43.99	Pk	32.1	-23.5	52.59	-	-	74	-21.41	296	194	H
3	* 2.39	31.18	VA1T	32.1	-23.5	39.78	54	-14.22	-	-	296	194	H
4	* 2.39	31.21	VA1T	32.1	-23.5	39.81	54	-14.19	-	-	296	194	H

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

Pk - Peak detector

VERTICAL RESULT

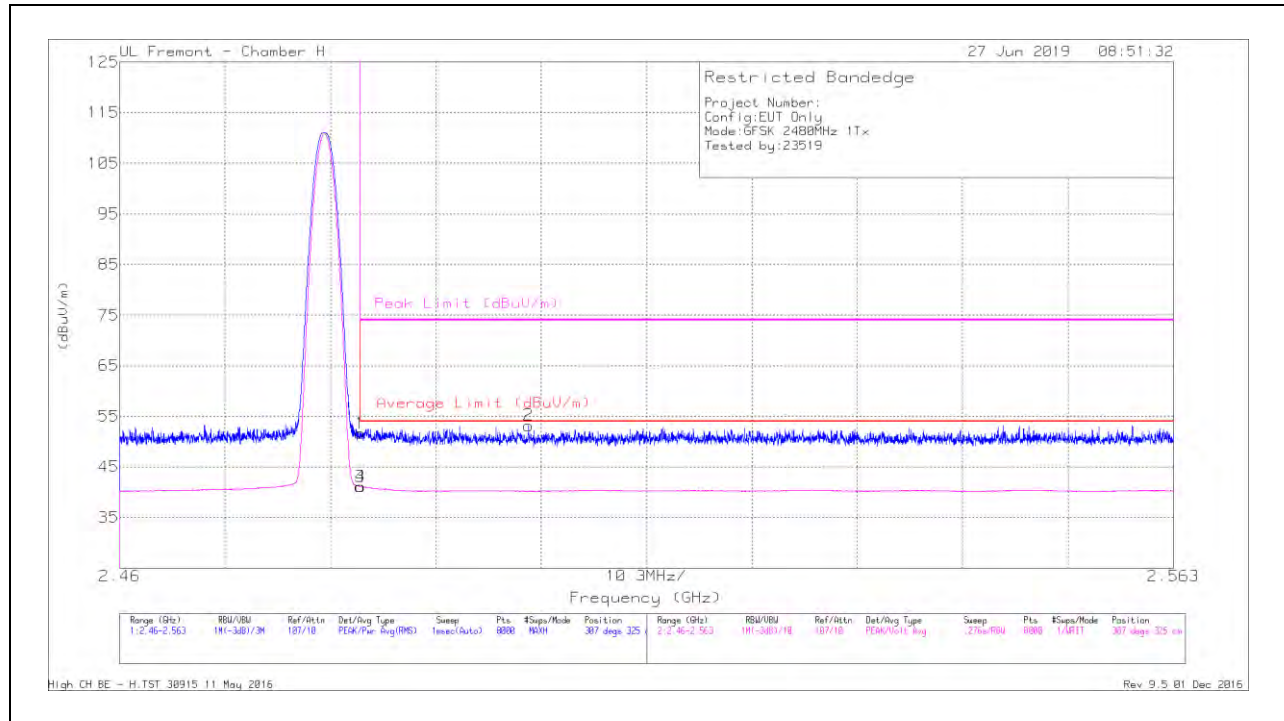


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.43	Pk	32.1	-23.5	50.03	-	-	74	-23.97	69	337	V
2	* 2.379	43.75	Pk	32.2	-23.5	52.45	-	-	74	-21.55	69	337	V
3	* 2.39	31.1	VA1T	32.1	-23.5	39.7	54	-14.3	-	-	69	336	V
4	* 2.38	31.07	VA1T	32.2	-23.5	39.77	54	-14.23	-	-	69	336	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**

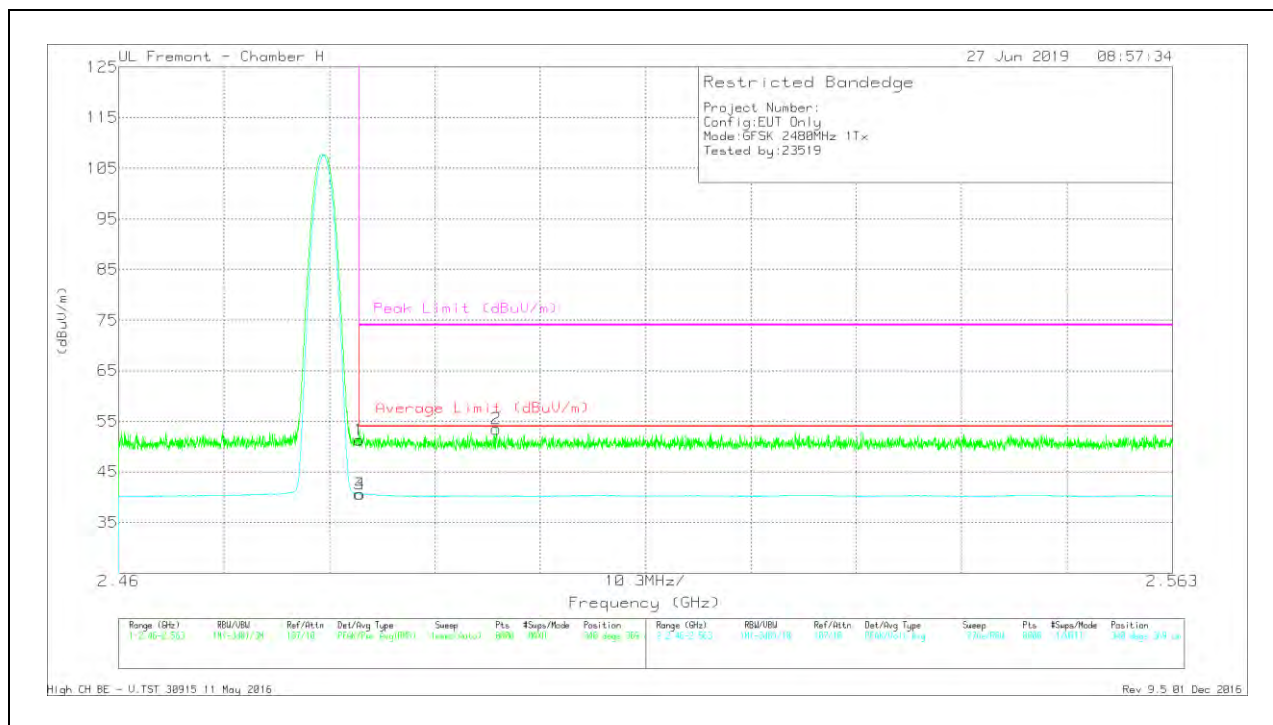
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.45	Pk	32.5	-23.3	51.65	-	-	74	-22.35	307	325	H
2	* 2.5	44.01	Pk	32.5	-23.3	53.21	-	-	74	-20.79	307	325	H
3	* 2.484	31.91	VA1T	32.5	-23.3	41.11	54	-12.89	-	-	307	325	H
4	* 2.484	31.91	VA1T	32.5	-23.3	41.11	54	-12.89	-	-	307	325	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	AFT863 (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	42.12	Pk	32.5	-23.3	51.32	-	-	74	-22.68	340	369	V
2	* 2.497	44.16	Pk	32.5	-23.2	53.46	-	-	74	-20.54	340	369	V
3	* 2.484	31.42	VA1T	32.5	-23.3	40.62	54	-13.38	-	-	340	369	V
4	* 2.484	31.45	VA1T	32.5	-23.3	40.65	54	-13.35	-	-	340	369	V

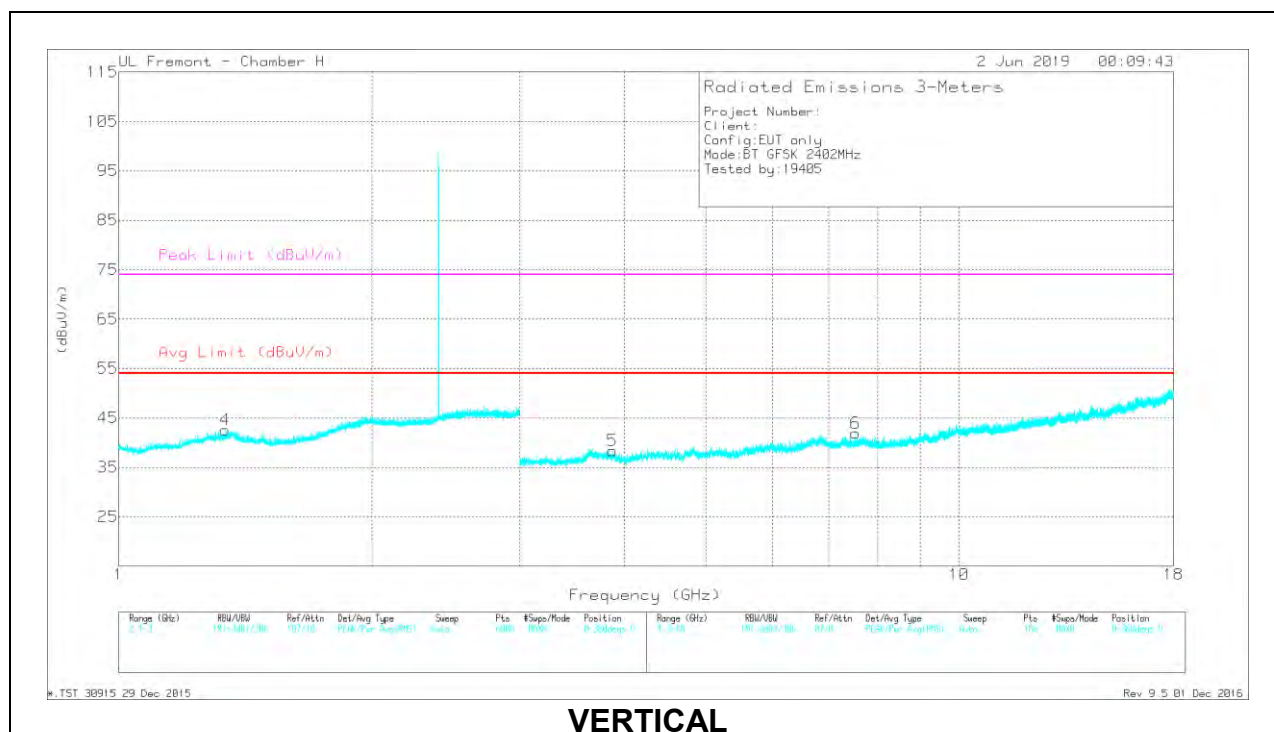
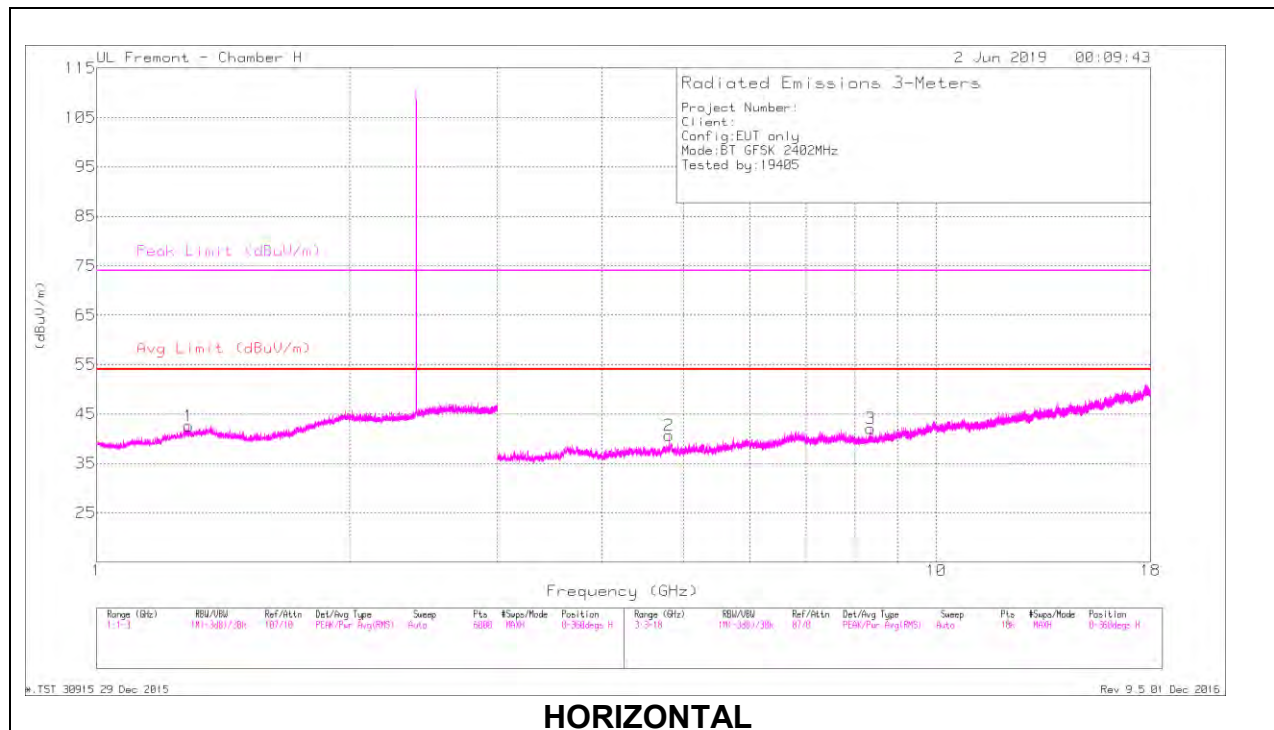
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

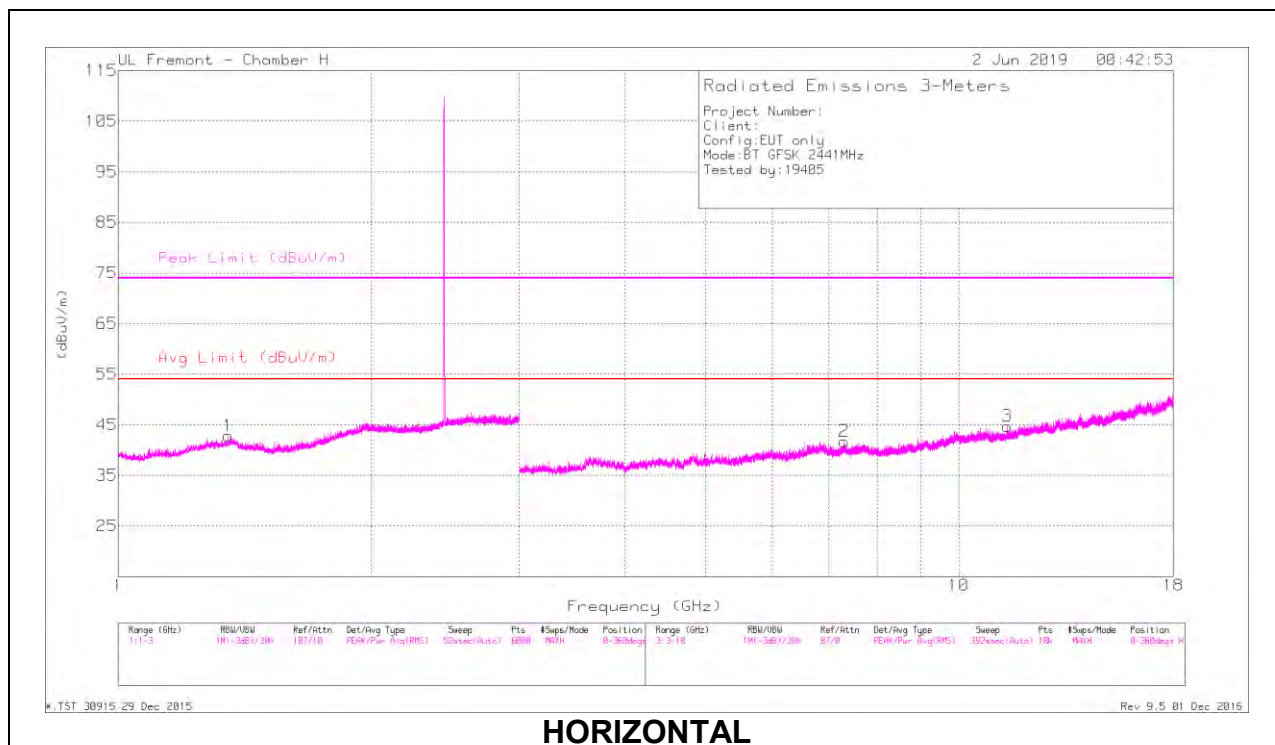
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.286	44.27	PKFH	29.2	-25.4	48.07	-	-	74	-25.93	229	144	H
	* 1.285	31.95	VA1T	29.2	-25.4	35.75	54	-18.25	-	-	229	144	H
4	* 1.34	43.59	PKFH	29.4	-25.3	47.69	-	-	74	-26.31	113	210	V
	* 1.337	31.84	VA1T	29.3	-25.3	35.84	54	-18.16	-	-	113	210	V
2	* 4.803	41.41	PKFH	34.2	-30.3	45.31	-	-	74	-28.69	279	161	H
	* 4.804	29.24	VA1T	34.1	-30.3	33.04	54	-20.96	-	-	279	161	H
3	* 8.346	36.15	PKFH	35.8	-25.7	46.25	-	-	74	-27.75	182	313	H
	* 8.349	24.48	VA1T	35.8	-25.7	34.58	54	-19.42	-	-	182	313	H
5	* 3.871	41.4	PKFH	33.4	-30.3	44.5	-	-	74	-29.5	246	344	V
	* 3.871	29.07	VA1T	33.4	-30.3	32.17	54	-21.83	-	-	246	344	V
6	* 7.54	38.04	PKFH	36.5	-27.4	47.14	-	-	74	-26.86	64	140	V
	* 7.538	25.46	VA1T	36.5	-27.4	34.56	54	-19.44	-	-	64	140	V

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

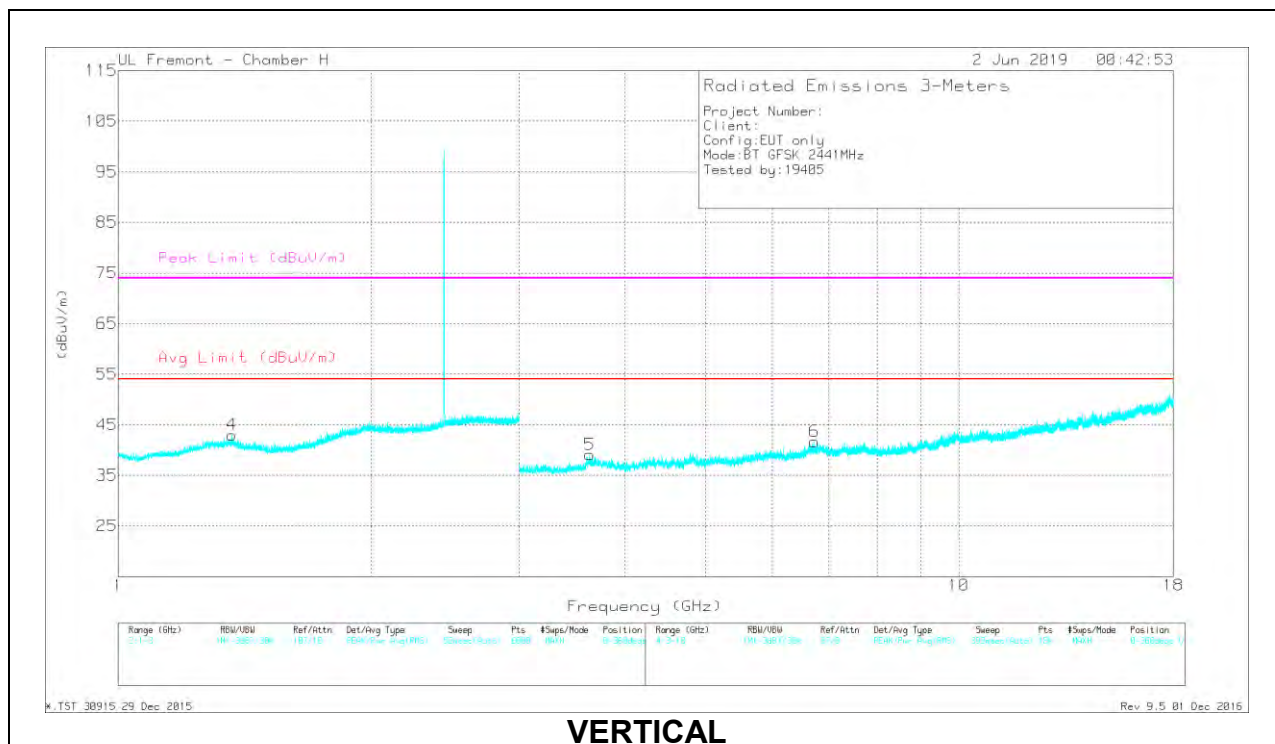
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

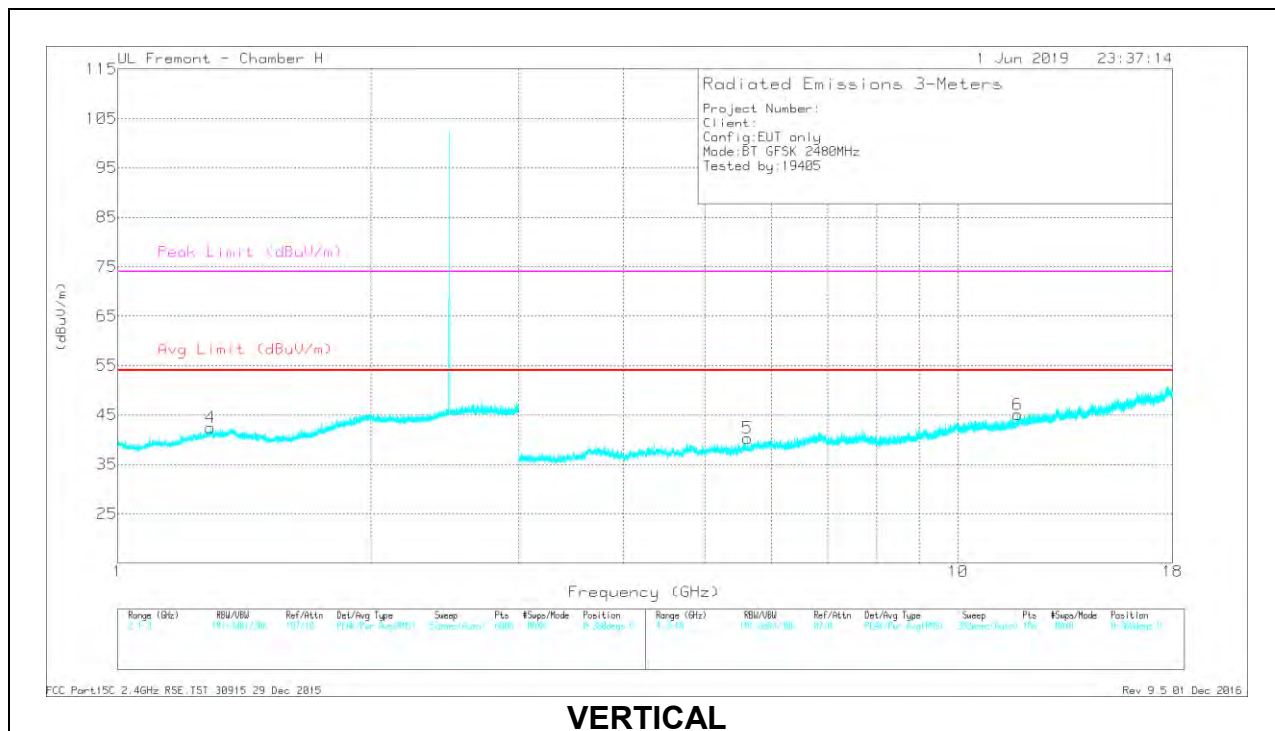
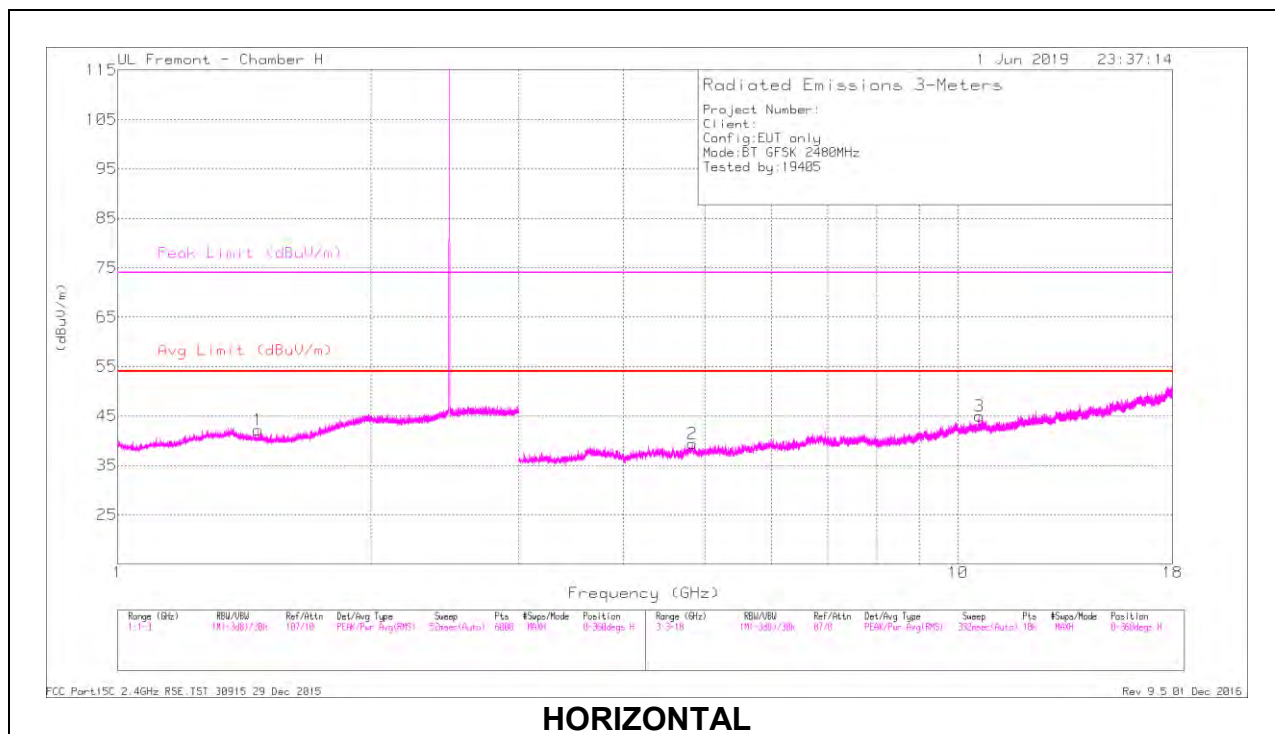
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.35	43.44	PKFH	29.5	-25.2	47.74	-	-	74	-26.26	58	229	H
	* 1.351	31.81	VA1T	29.5	-25.2	36.11	54	-17.89	-	-	58	229	H
4	* 1.366	43.45	PKFH	29.7	-25.2	47.95	-	-	74	-26.05	225	112	V
	* 1.365	31.83	VA1T	29.6	-25.2	36.23	54	-17.77	-	-	225	112	V
2	* 7.307	37.5	PKFH	36.4	-26.4	47.5	-	-	74	-26.5	298	315	H
	* 7.306	25.32	VA1T	36.4	-26.5	35.22	54	-18.78	-	-	298	315	H
3	* 11.418	34.31	PKFH	38.2	-23.4	49.11	-	-	74	-24.89	142	284	H
	* 11.418	22.9	VA1T	38.2	-23.4	37.7	54	-16.3	-	-	142	284	H
5	* 3.638	40.1	PKFH	33.1	-29.5	43.7	-	-	74	-30.3	239	177	V
	* 3.64	28.13	VA1T	33.1	-29.5	31.73	54	-22.27	-	-	239	177	V
6	6.735	39.18	PKFH	36.9	-28.8	47.28	-	-	-	-	276	209	V
	6.735	26.85	VA1T	36.9	-28.8	34.95	-	-	-	-	276	209	V

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

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

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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.468	43.73	PKFH	28.4	-25	47.13	-	-	74	-26.87	259	148	H
	* 1.468	31.64	VA1T	28.4	-25	35.04	54	-18.96	-	-	259	148	H
4	* 1.287	43.65	PKFH	29.2	-25.4	47.45	-	-	74	-26.55	171	290	V
	* 1.288	31.92	VA1T	29.2	-25.4	35.72	54	-18.28	-	-	171	290	V
2	* 4.829	41.21	PKFH	34.1	-30.4	44.91	-	-	74	-29.09	308	225	H
	* 4.83	29.04	VA1T	34.1	-30.4	32.74	54	-21.26	-	-	308	225	H
6	* 11.782	34.38	PKFH	38.6	-22.9	50.08	-	-	74	-23.92	246	240	V
	* 11.779	22.87	VA1T	38.6	-23	38.47	54	-15.53	-	-	246	240	V
5	5.618	40.28	PKFH	34.8	-29.7	45.38	-	-	-	-	292	124	V
	5.619	27.86	VA1T	34.8	-29.7	32.96	-	-	-	-	292	124	V
3	10.599	33.71	PKFH	37.8	-23.1	48.41	-	-	-	-	83	191	H
	10.599	22.82	VA1T	37.8	-23.1	37.52	-	-	-	-	83	191	H

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

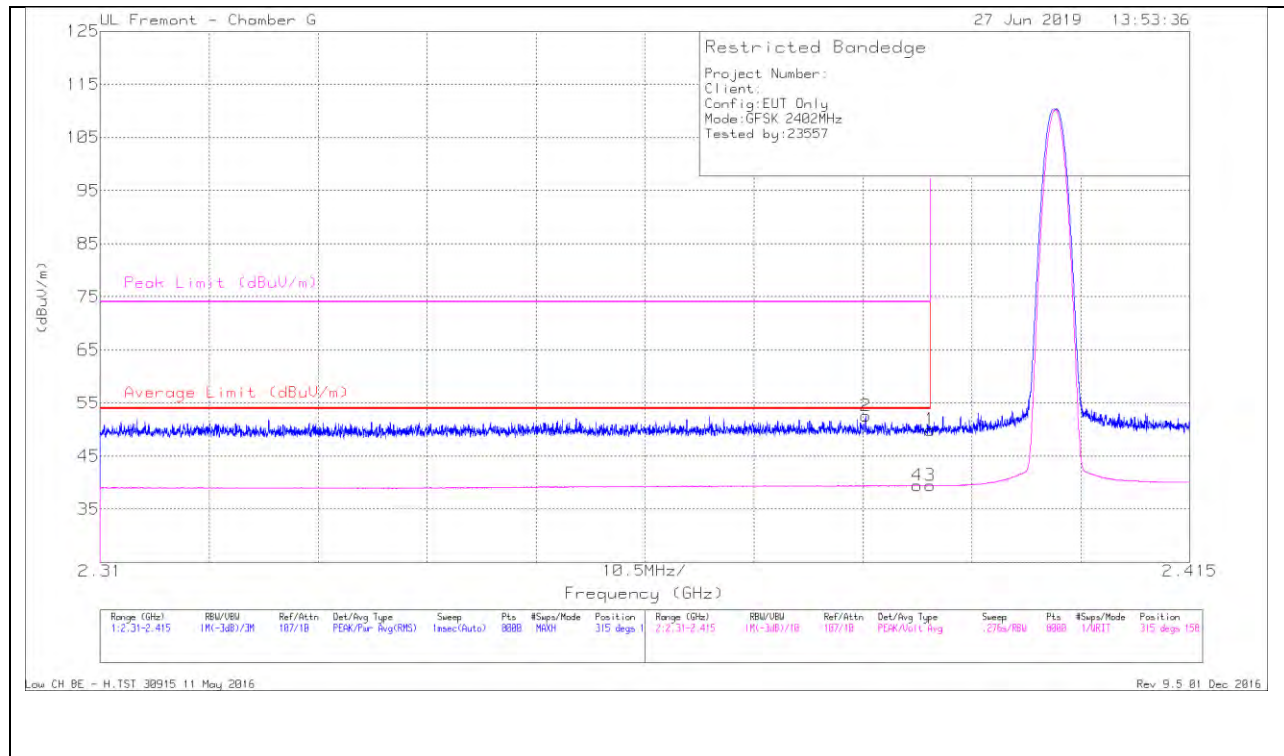
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	40.24	Pk	31.9	-22.2	49.94	-	-	74	-24.06	315	158	H
2	* 2.384	42.89	Pk	31.9	-22.2	52.59	-	-	74	-21.41	315	158	H
3	* 2.39	29.75	VA1T	31.9	-22.2	39.45	54	-14.55	-	-	315	158	H
4	* 2.389	29.78	VA1T	31.9	-22.2	39.48	54	-14.52	-	-	315	158	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

UL Fremont - Chamber G

27 Jun 2019 14:01:40

Restricted Bandedge

Project Number:
Client:
Config: EUT Only
Mode: GFSK 2402MHz
Tested by: 23557

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

(dBuV/m)

Frequency (GHz)

10.5MHz/

2.31 2.415

Range (Ghz)	RBW/VBW	Ref/Att'n	Det/Avg Type	Sweep	Pts	#Sps/Mode	Position
1.2-31-E-415	1M-300/2M	107/10	PKR/Pos Avg/RES	Trace/Auto	5000	1M/01	250 degs

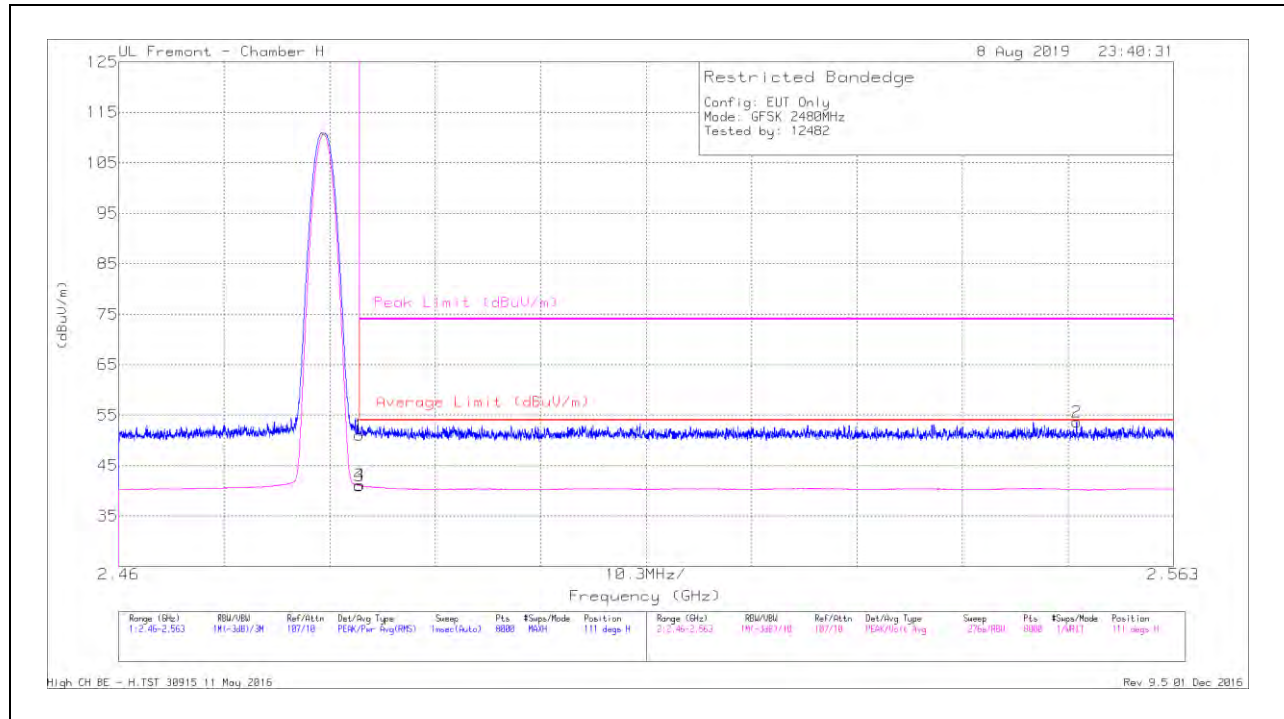
Range (Ghz)	RBW/VBW	Ref/Att'n	Det/Avg Type	Sweep	Pts	#Sps/Mode	Position
1.2-31-E-415	1M-300/10	107/10	PKR/Pos Avg	270u-RES	5000	1M/01	250 degs 200

Low CH BE - U.TST 30915 11 May 2016

Rev 9.5 01 Dec 2016

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pa d (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	39.9	Pk	31.9	-22.2	49.6	-	-	74	-24.4	262	390	V
2	* 2.374	42.73	Pk	31.8	-22.2	52.33	-	-	74	-21.67	262	390	V
3	* 2.39	29.6	VA1T	31.9	-22.2	39.3	54	-14.7	-	-	262	390	V
4	* 2.385	29.66	VA1T	31.9	-22.2	39.36	54	-14.64	-	-	262	390	V

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

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

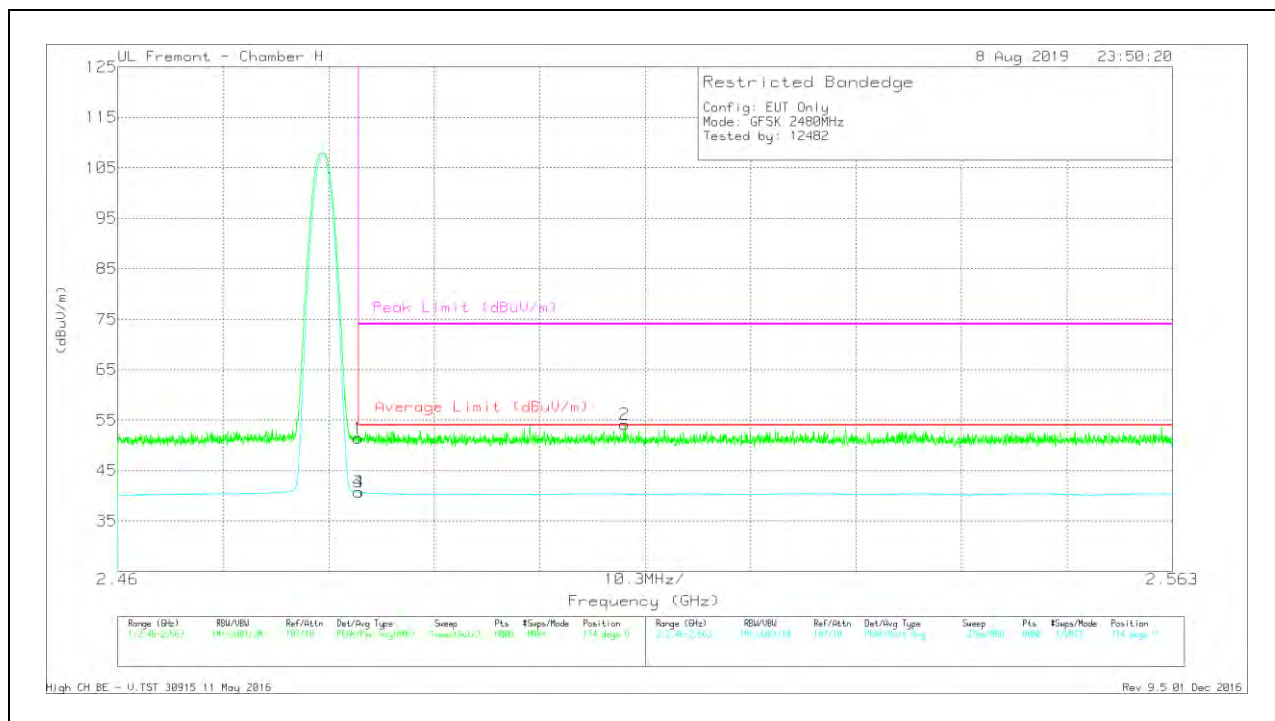
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.87	Pk	32.5	-23.3	51.07	-	-	74	-22.93	111	285	H
3	* 2.484	31.84	VA1T	32.5	-23.3	41.04	54	-12.96	-	-	111	285	H
4	* 2.484	31.86	VA1T	32.5	-23.3	41.06	54	-12.94	-	-	111	285	H
2	2.554	44.31	Pk	32.5	-23.2	53.61	-	-	74	-20.39	111	285	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/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.24	Pk	32.5	-23.3	51.44	-	-	74	-22.56	174	364	V
3	* 2.484	31.49	VA1T	32.5	-23.3	40.69	54	-13.31	-	-	174	364	V
4	* 2.484	31.48	VA1T	32.5	-23.3	40.68	54	-13.32	-	-	174	364	V
2	2.51	44.75	Pk	32.6	-23.2	54.15	-	-	74	-19.85	174	364	V

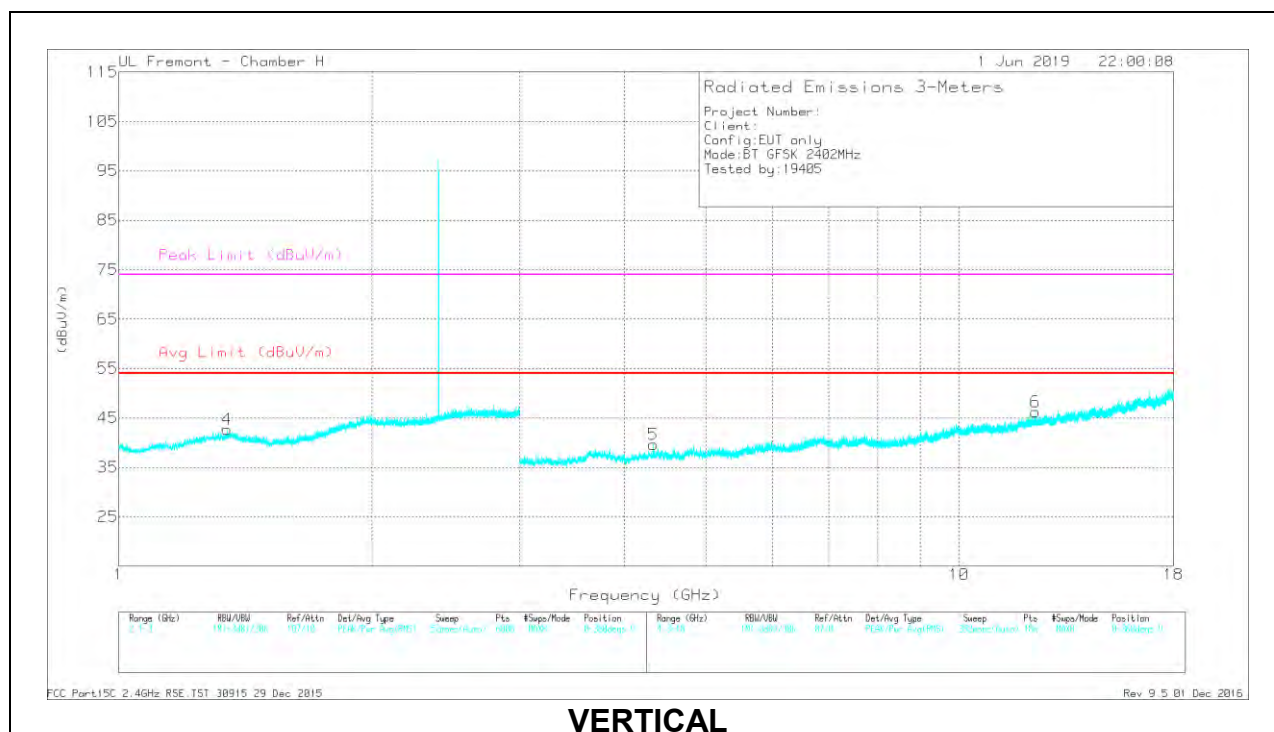
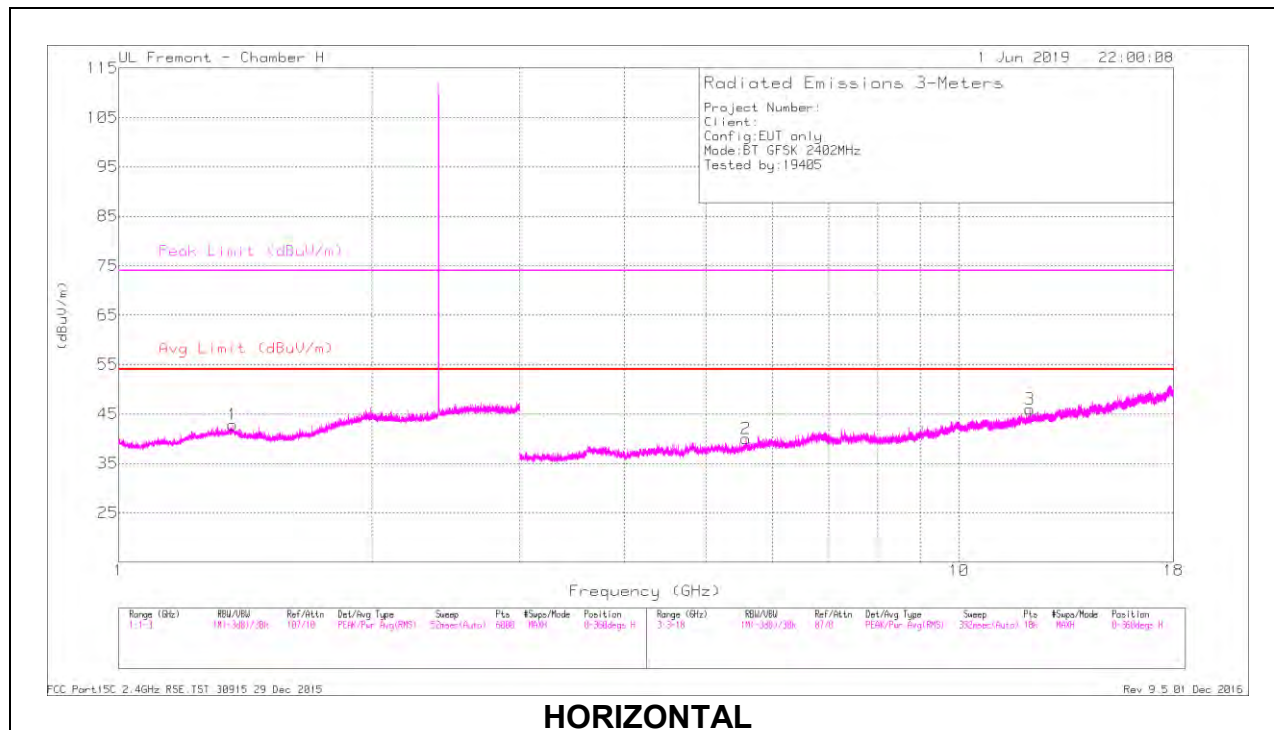
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

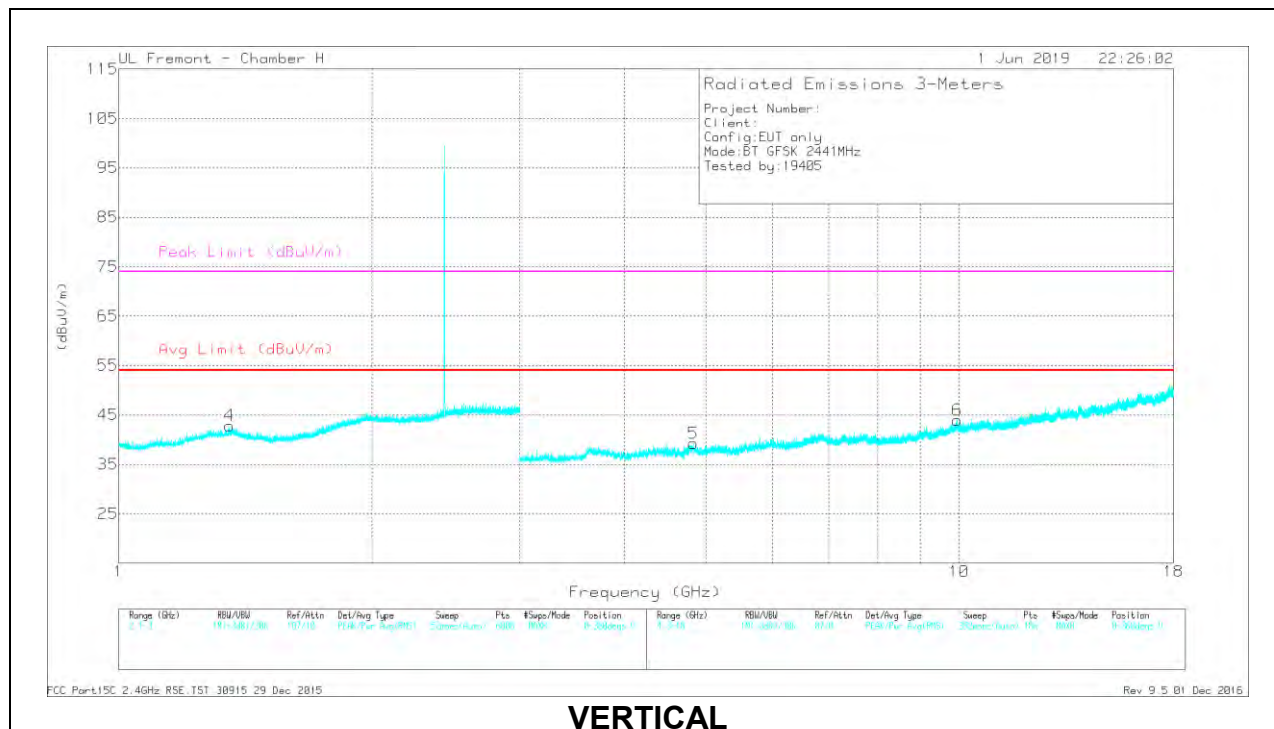
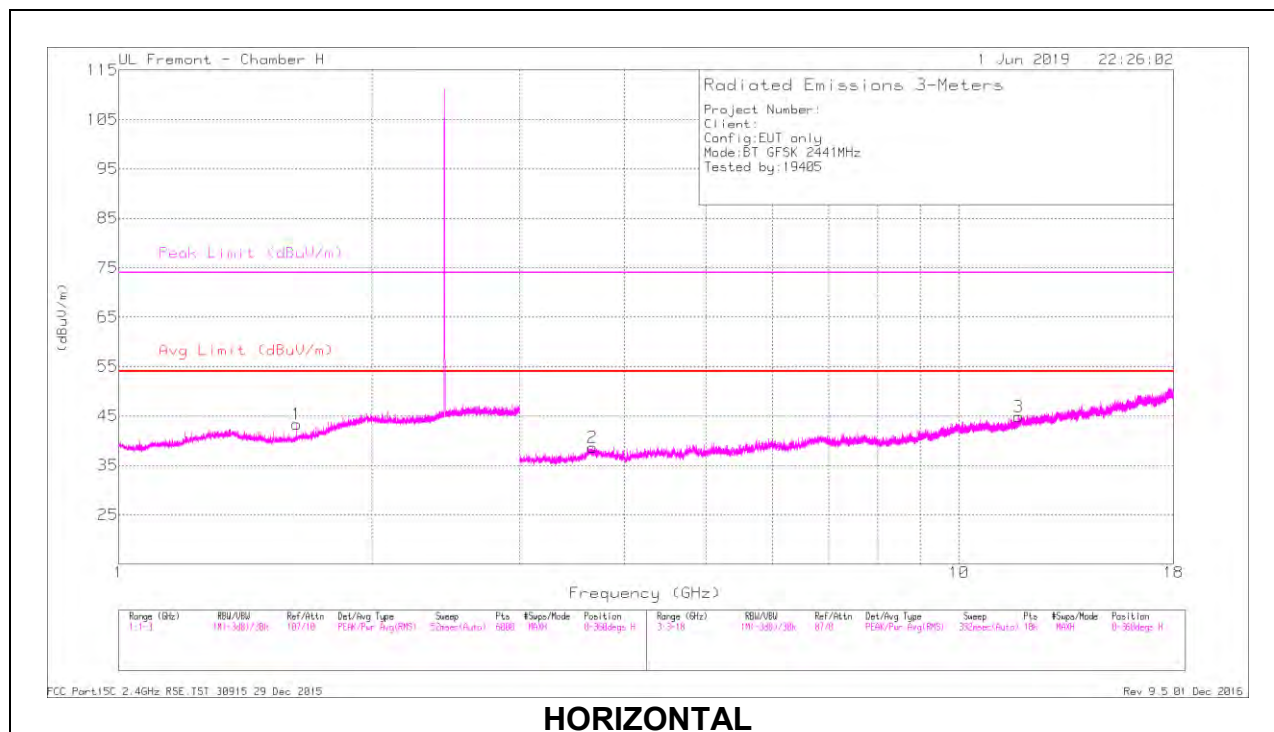
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.366	43.33	PKFH	29.7	-25.2	47.83	-	-	74	-26.17	234	323	H
	* 1.368	31.86	VA1T	29.7	-25.2	36.36	54	-17.64	-	-	234	323	H
4	* 1.347	43.56	PKFH	29.4	-25.2	47.76	-	-	74	-26.24	120	255	V
	* 1.346	31.8	VA1T	29.4	-25.3	35.9	54	-18.1	-	-	120	255	V
3	* 12.152	34.92	PKFH	39.1	-23.1	50.92	-	-	74	-23.08	307	125	H
	* 12.153	22.85	VA1T	39.1	-23.1	38.85	54	-15.15	-	-	307	125	H
5	* 4.33	39.77	PKFH	33.8	-29.9	43.67	-	-	74	-30.33	263	167	V
	* 4.332	28.11	VA1T	33.8	-29.9	32.01	54	-21.99	-	-	263	167	V
6	* 12.338	34.71	PKFH	39.1	-23.1	50.71	-	-	74	-23.29	94	219	V
	* 12.338	23.27	VA1T	39.1	-23.1	39.27	54	-14.73	-	-	94	219	V
2	5.579	39.68	PKFH	34.8	-29.7	44.78	-	-	-	-	167	272	H
	5.58	28.16	VA1T	34.8	-29.7	33.26	-	-	-	-	167	272	H

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

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

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

MID CHANNEL RESULTS



RADIATED EMISSIONS

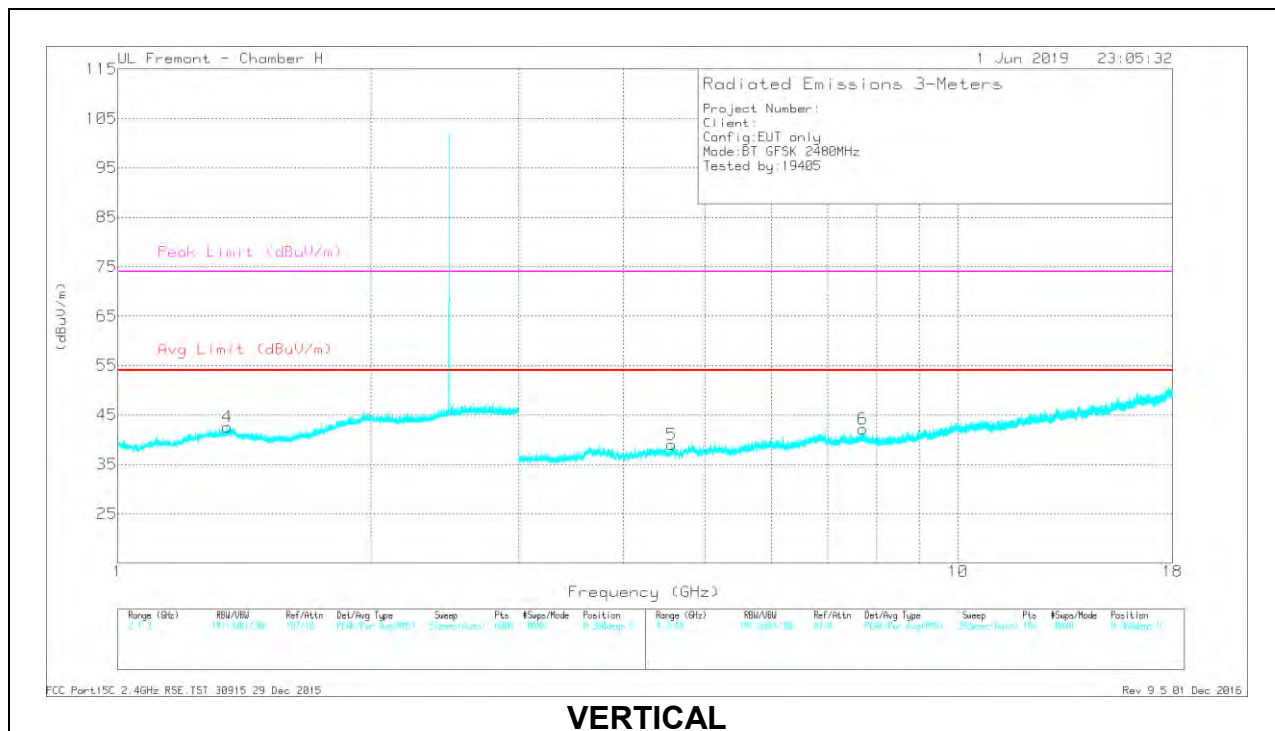
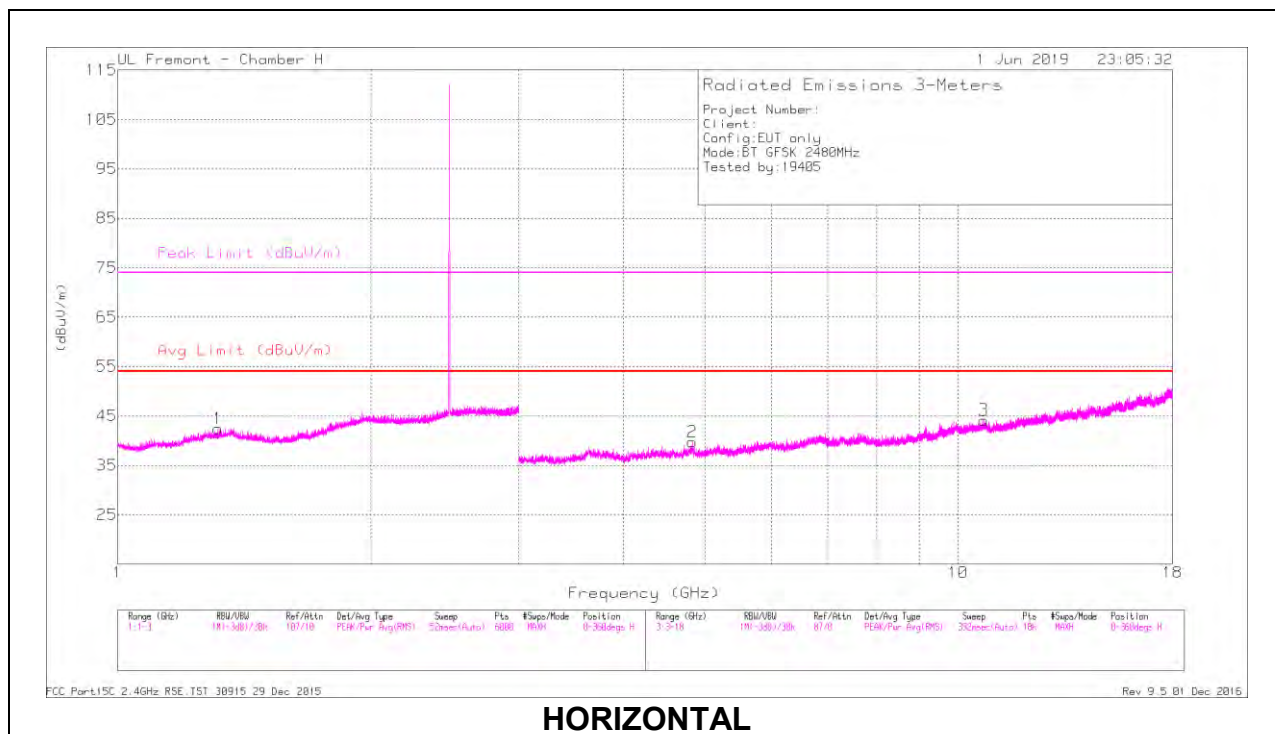
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.353	43.97	PKFH	29.6	-25.2	48.37	-	-	74	-25.63	289	172	V
	* 1.356	31.77	VA1T	29.6	-25.3	36.07	54	-17.93	-	-	289	172	V
2	* 3.663	40.1	PKFH	33.1	-29.7	43.5	-	-	74	-30.5	32	198	H
	* 3.665	28.07	VA1T	33.1	-29.8	31.37	54	-22.63	-	-	32	198	H
3	* 11.77	35.37	PKFH	38.6	-23.1	50.87	-	-	74	-23.13	257	118	H
	* 11.77	23.09	VA1T	38.6	-23.1	38.59	54	-15.41	-	-	257	118	H
5	* 4.828	41.05	PKFH	34.1	-30.3	44.85	-	-	74	-29.15	226	164	V
	* 4.83	28.99	VA1T	34.1	-30.4	32.69	54	-21.31	-	-	226	164	V
1	1.628	43.1	PKFH	28.3	-24.6	46.8	-	-	-	-	242	114	H
	1.629	31.55	VA1T	28.4	-24.6	35.35	-	-	-	-	242	114	H
6	9.945	34.95	PKFH	37.1	-22.5	49.55	-	-	-	-	135	320	V
	9.947	22.87	VA1T	37.1	-22.5	37.47	-	-	-	-	135	320	V

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

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

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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.316	44.25	PKFH	29.1	-25.3	48.05	-	-	74	-25.95	312	127	H
	* 1.317	31.98	VA1T	29.1	-25.3	35.78	54	-18.22	-	-	312	127	H
4	* 1.349	43.25	PKFH	29.4	-25.2	47.45	-	-	74	-26.55	86	294	V
	* 1.349	31.78	VA1T	29.5	-25.2	36.08	54	-17.92	-	-	86	294	V
2	* 4.83	40.15	PKFH	34.1	-30.4	43.85	-	-	74	-30.15	241	179	H
	* 4.83	28.95	VA1T	34.1	-30.4	32.65	54	-21.35	-	-	241	179	H
3	* 10.726	34.42	PKFH	37.8	-22.5	49.72	-	-	74	-24.28	336	147	H
	* 10.726	22.47	VA1T	37.8	-22.5	37.77	54	-16.23	-	-	336	147	H
5	* 4.565	39.89	PKFH	34.1	-30.3	43.69	-	-	74	-30.31	348	192	V
	* 4.565	28.52	VA1T	34.1	-30.3	32.32	54	-21.68	-	-	348	192	V
6	* 7.705	37.36	PKFH	36.6	-26.6	47.36	-	-	74	-26.64	176	270	V
	* 7.702	25.18	VA1T	36.6	-26.7	35.08	54	-18.92	-	-	176	270	V

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

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

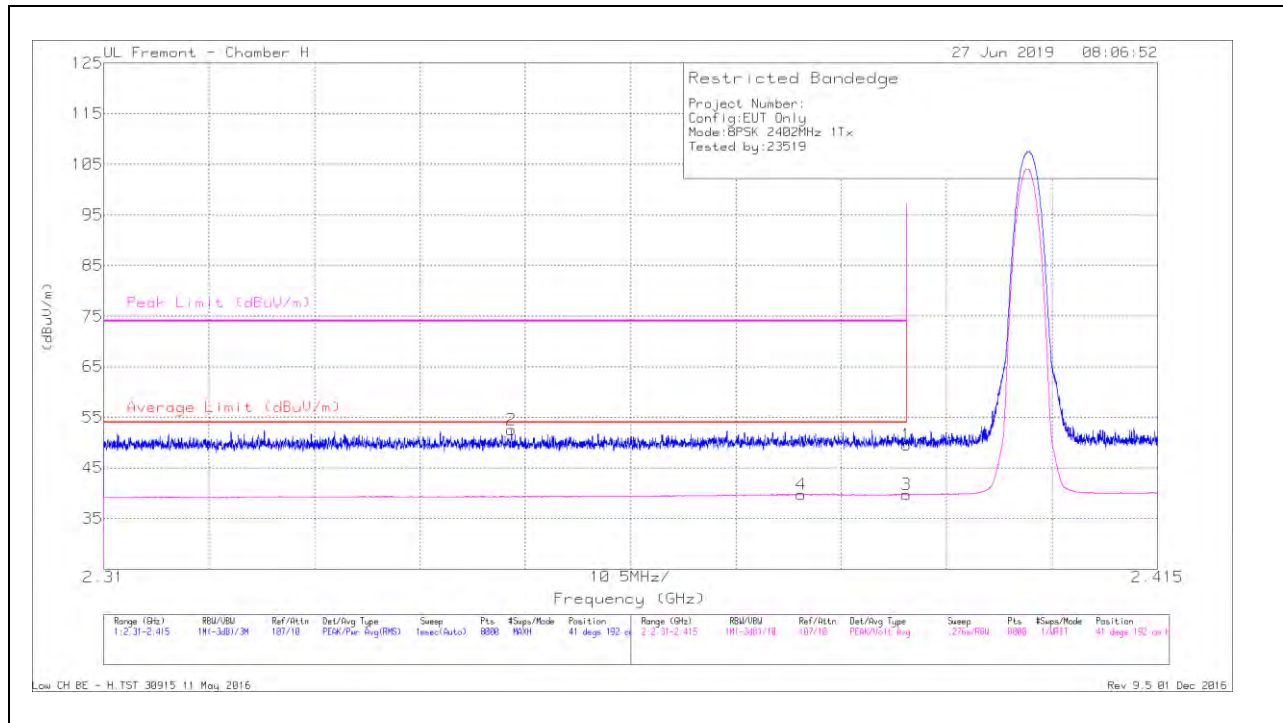
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.2. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



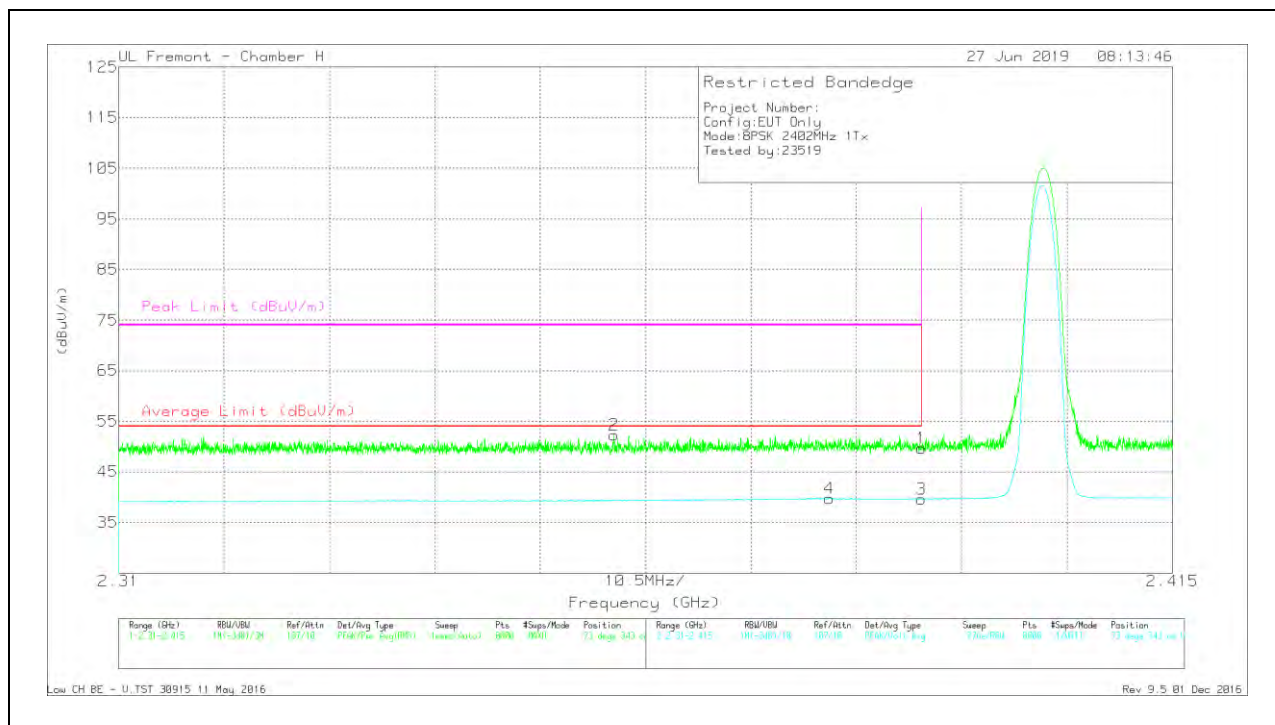
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.95	Pk	32.1	-23.5	49.55	-	-	74	-24.45	41	192	H
2	* 2.351	44.19	Pk	31.9	-23.6	52.49	-	-	74	-21.51	41	192	H
3	* 2.39	31.13	VA1T	32.1	-23.5	39.73	54	-14.27	-	-	41	192	H
4	* 2.379	31.05	VA1T	32.2	-23.5	39.75	54	-14.25	-	-	41	192	H

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

Pk - Peak detector

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

VERTICAL RESULT

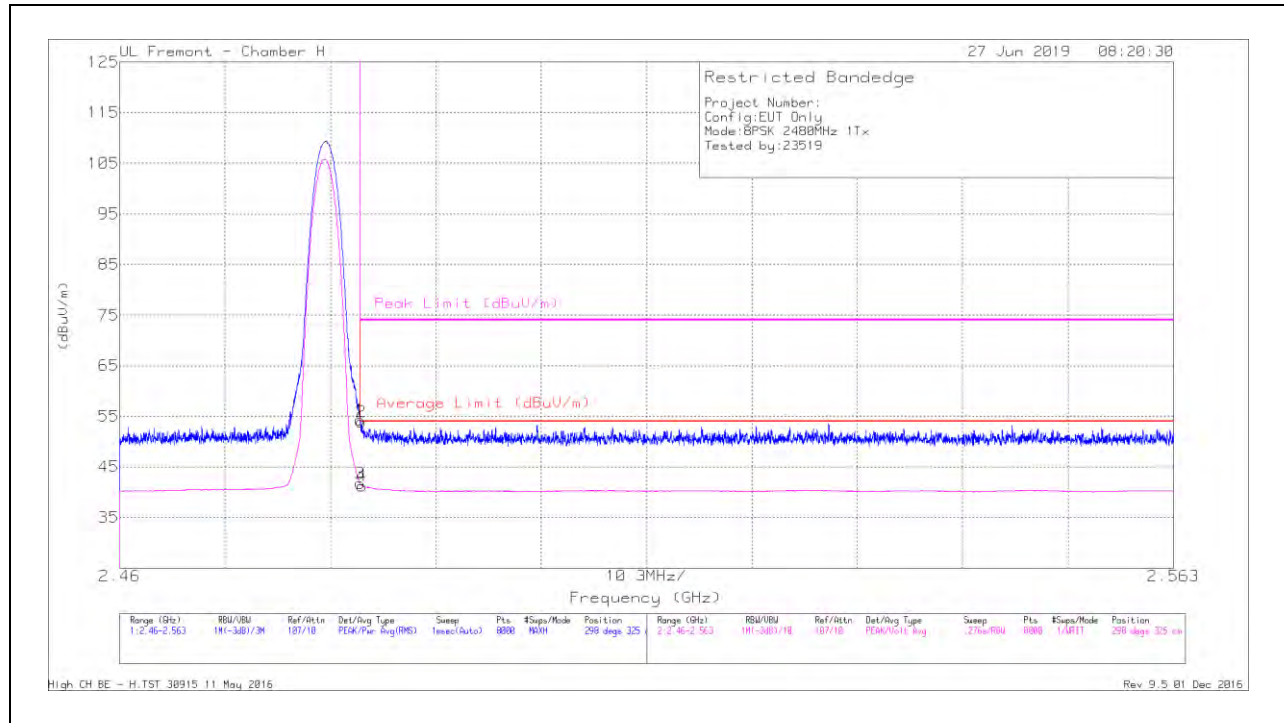


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.11	Pk	32.1	-23.5	49.71	-	-	74	-24.29	73	343	V
2	* 2.359	43.93	Pk	31.9	-23.6	52.23	-	-	74	-21.77	73	343	V
3	* 2.39	31.04	VA1T	32.1	-23.5	39.64	54	-14.36	-	-	73	343	V
4	* 2.381	31.02	VA1T	32.2	-23.5	39.72	54	-14.28	-	-	73	343	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**

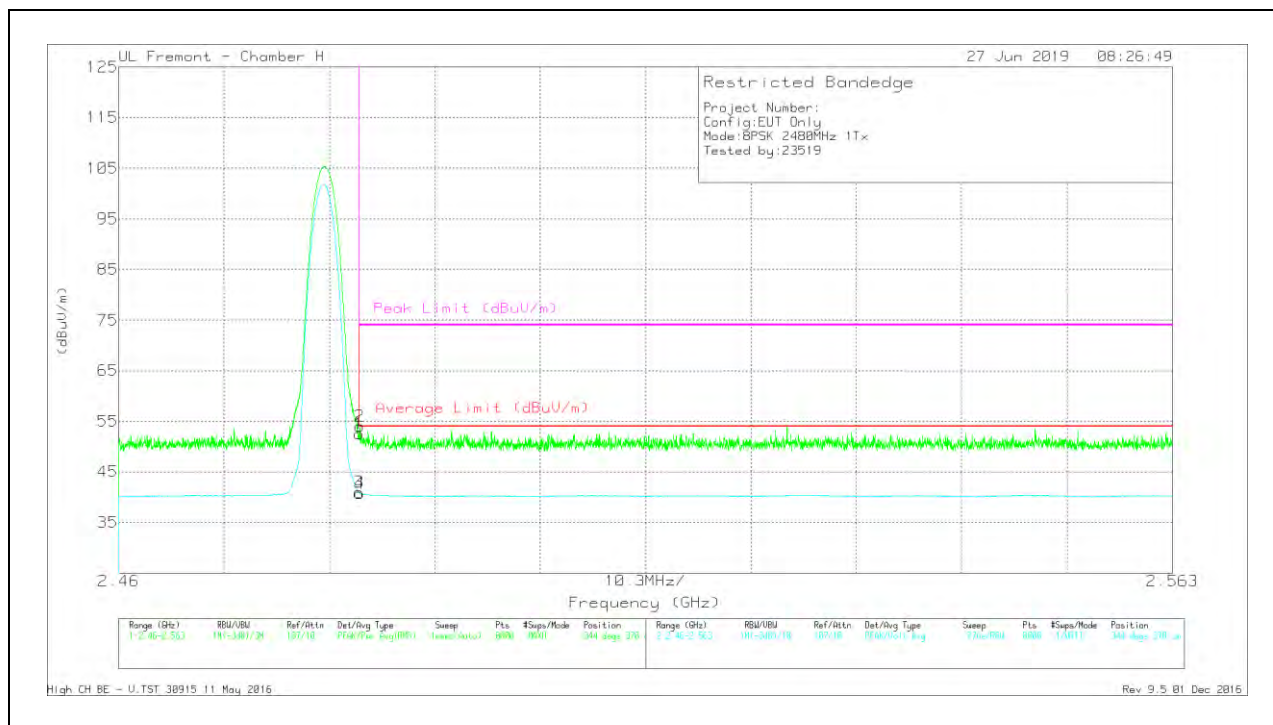
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.09	Pk	32.5	-23.3	54.29	-	-	74	-19.71	298	325	H
2	* 2.484	44.66	Pk	32.5	-23.3	53.86	-	-	74	-20.14	298	325	H
3	* 2.484	32.51	VA1T	32.5	-23.3	41.71	54	-12.29	-	-	298	325	H
4	* 2.484	32.05	VA1T	32.5	-23.3	41.25	54	-12.75	-	-	298	325	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/Filtr/Pa d (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	43.28	Pk	32.5	-23.3	52.48	-	-	74	-21.52	344	370	V
2	* 2.484	44.87	Pk	32.5	-23.3	54.07	-	-	74	-19.93	344	370	V
3	* 2.484	31.72	VA1T	32.5	-23.3	40.92	54	-13.08	-	-	344	370	V
4	* 2.484	31.58	VA1T	32.5	-23.3	40.78	54	-13.22	-	-	344	370	V

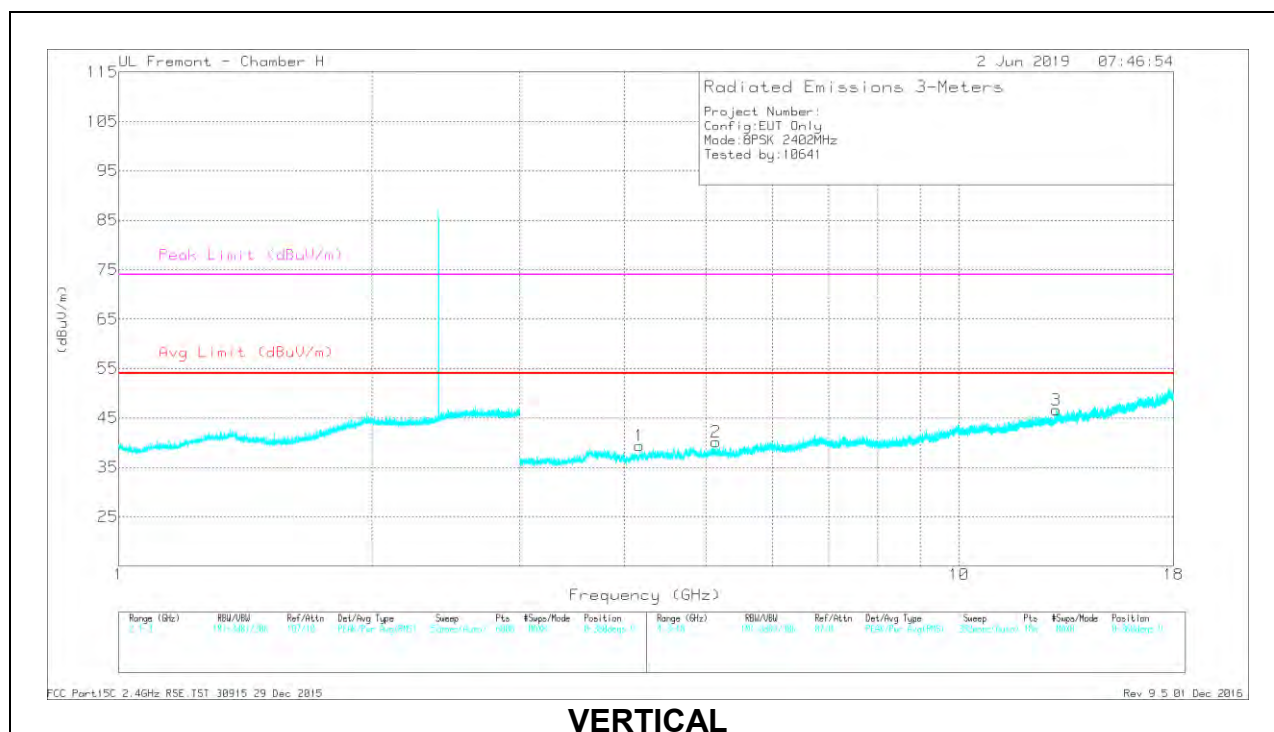
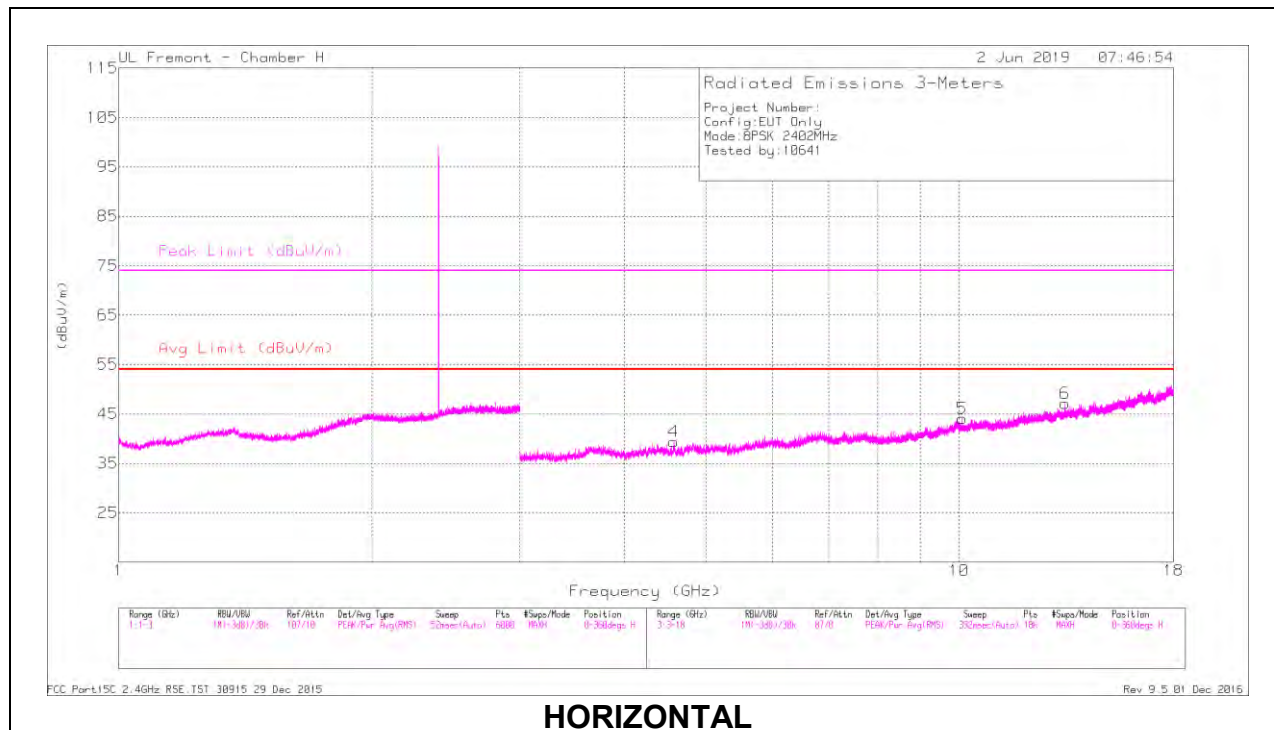
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

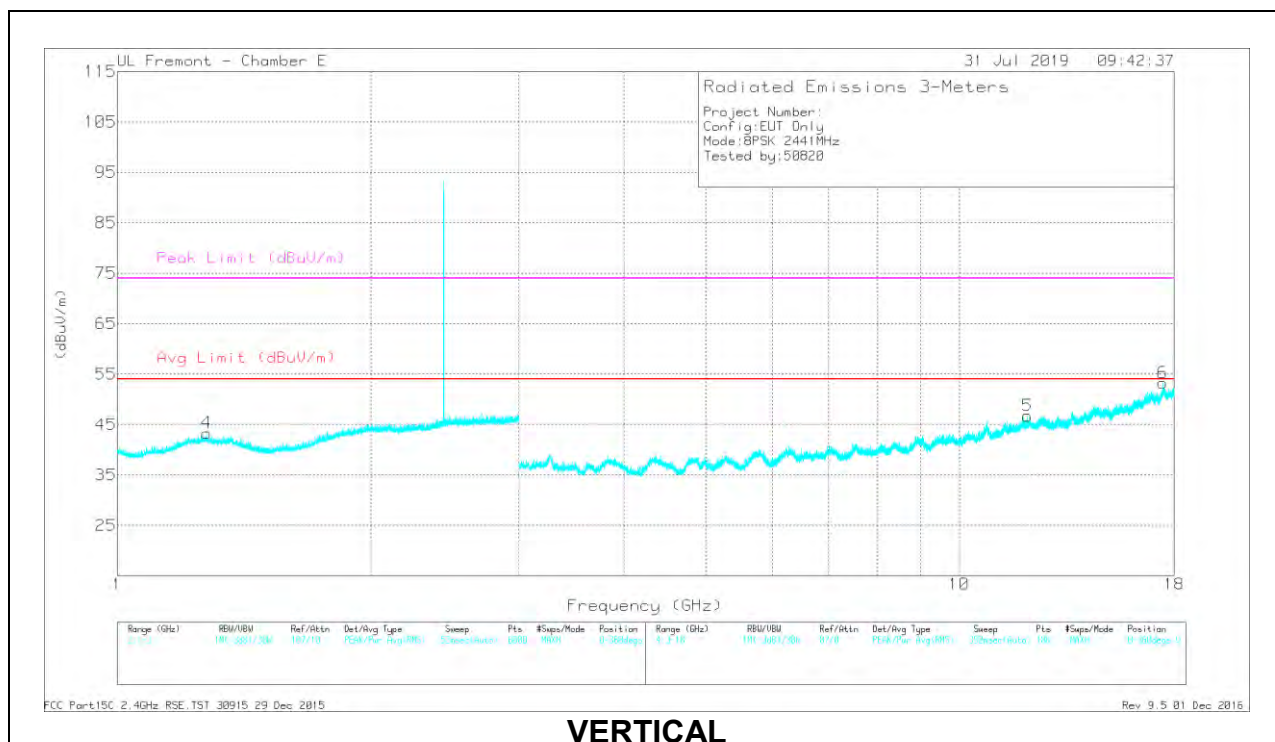
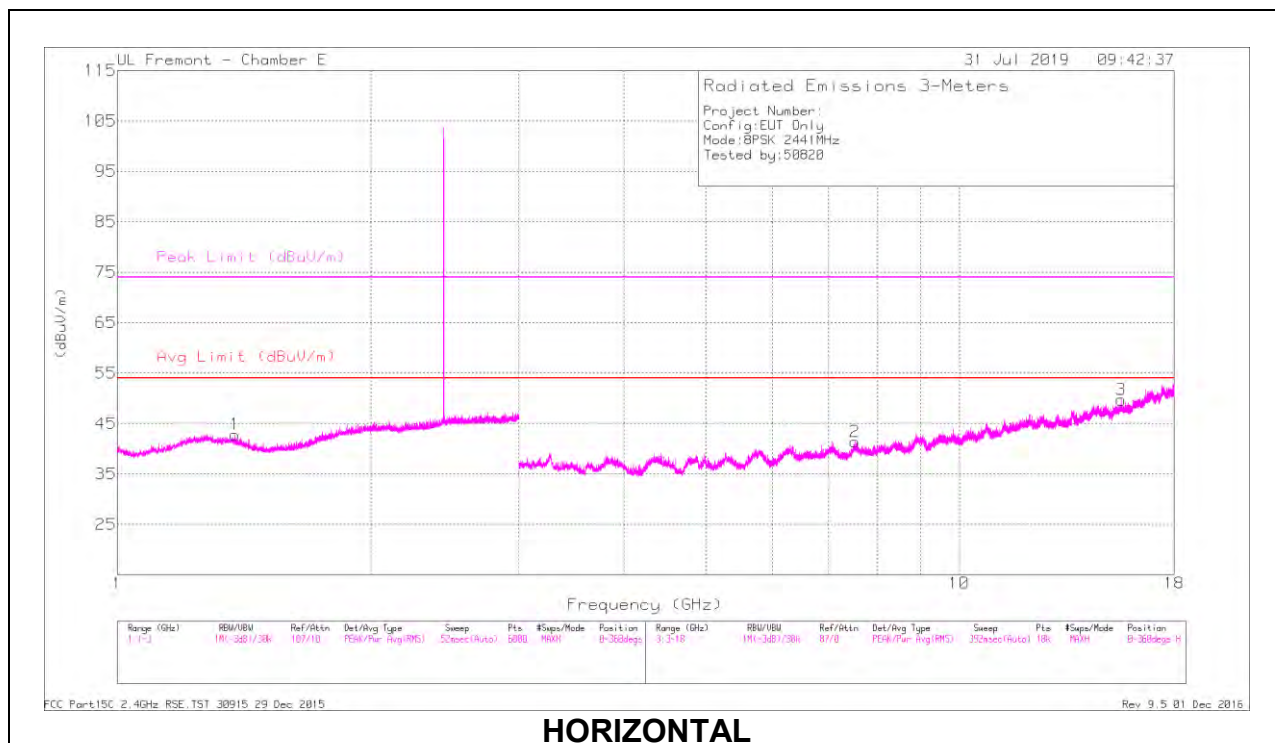
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.574	40.54	PKFH	34.1	-30.2	44.44	-	-	74	-29.56	317	121	H
	* 4.577	28.86	VA1T	34.1	-30.2	32.76	54	-21.24	-	-	317	121	H
6	* 13.381	34.43	PKFH	39.5	-22.6	51.33	-	-	74	-22.67	230	128	H
	* 13.381	22.85	VA1T	39.5	-22.6	39.75	54	-14.25	-	-	230	128	H
1	* 4.169	41.54	PKFH	33.2	-30.7	44.04	-	-	74	-29.96	192	109	V
	* 4.169	29.15	VA1T	33.2	-30.7	31.65	54	-22.35	-	-	192	109	V
2	* 5.137	40.09	PKFH	34.5	-29.7	44.89	-	-	74	-29.11	198	106	V
	* 5.141	28.33	VA1T	34.5	-29.8	33.03	54	-20.97	-	-	198	106	V
5	10.094	34.96	PKFH	37.2	-23.8	48.36	-	-	-	-	263	146	H
3	13.064	34.27	PKFH	39.4	-22.1	51.57	-	-	-	-	162	119	V

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

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

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

MID CHANNEL RESULTS



RADIATED EMISSIONS

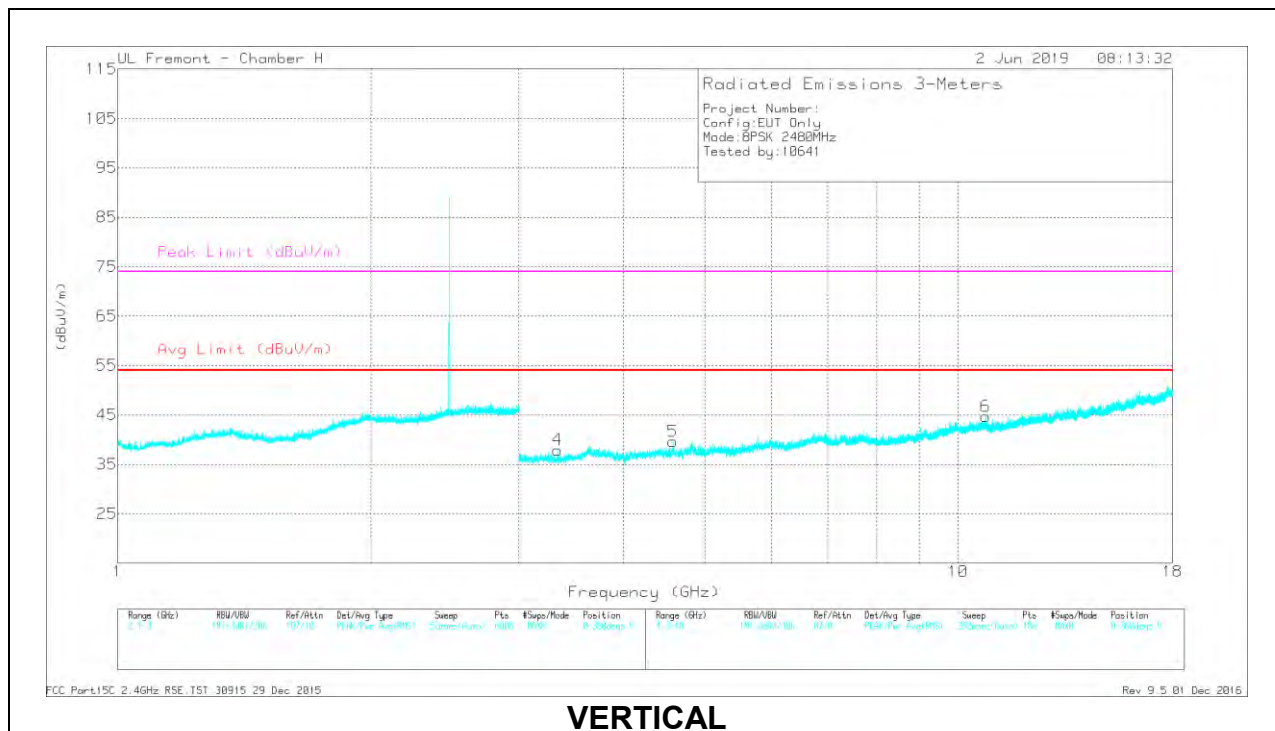
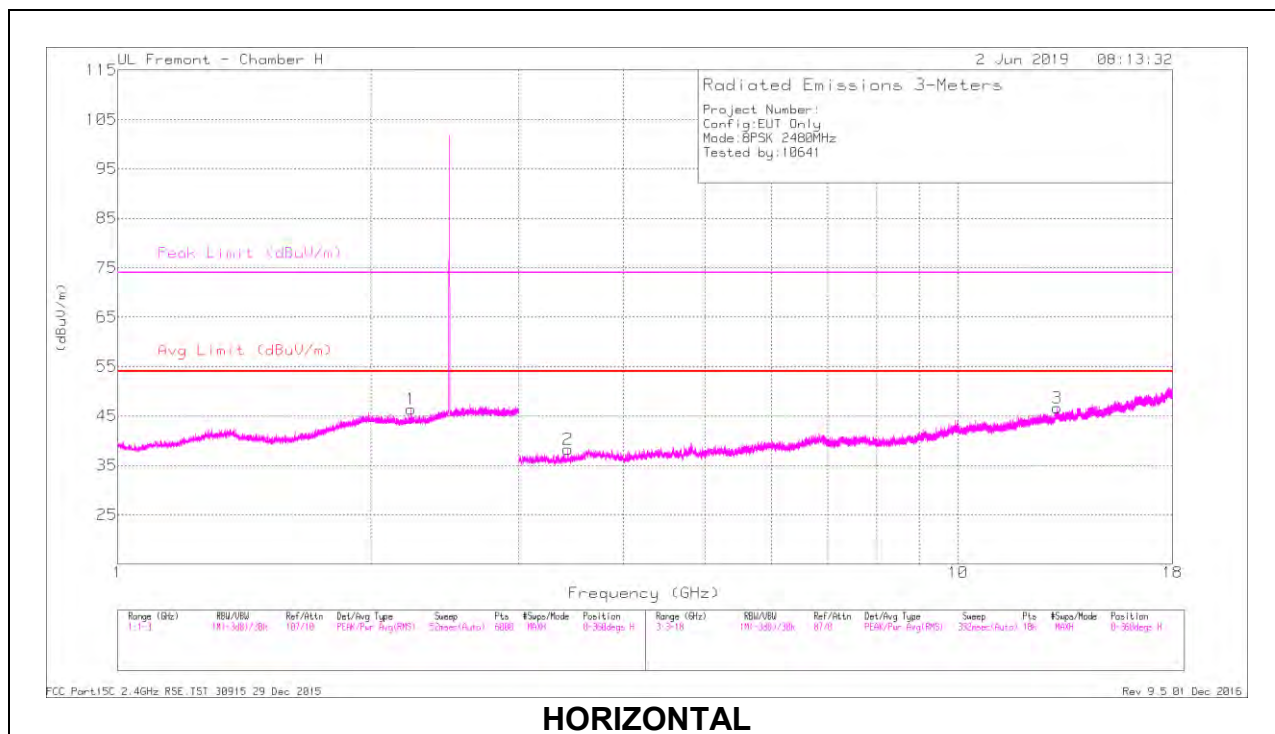
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.38	44.88	PKFH	29.5	-26.2	48.18	-	-	74	-25.82	258	317	H
	* 1.38	32.77	VA1T	29.5	-26.2	36.07	54	-17.93	-	-	258	317	H
4	* 1.277	44.85	PKFH	30.2	-26.2	48.85	-	-	74	-25.15	190	112	V
	* 1.278	32.74	VA1T	30.2	-26.2	36.74	54	-17.26	-	-	190	112	V
2	* 7.521	38.3	PKFH	35.7	-26.5	47.5	-	-	74	-26.5	113	219	H
	* 7.519	25.77	VA1T	35.7	-26.5	34.97	54	-19.03	-	-	113	219	H
3	* 15.581	34.2	PKFH	40.3	-20.1	54.4	-	-	74	-19.6	210	186	H
	* 15.578	22.94	VA1T	40.3	-20.1	43.14	54	-10.86	-	-	210	186	H
5	* 12.045	34.72	PKFH	39	-22	51.72	-	-	74	-22.28	160	103	V
	* 12.044	22.8	VA1T	39	-22	39.8	54	-14.2	-	-	160	103	V
6	17.446	34.79	PKFH	41.5	-17.9	58.39	-	-	-	-	160	375	V

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

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

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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.236	44.78	PKFH	31.4	-23.8	52.38	-	-	74	-21.62	134	143	H
	* 2.235	31.08	VA1T	31.4	-23.8	38.68	54	-15.32	-	-	134	143	H
5	* 4.582	40.25	PKFH	34.2	-30.2	44.25	-	-	74	-29.75	122	241	V
	* 4.584	28.7	VA1T	34.2	-30.2	32.7	54	-21.3	-	-	122	241	V
6	* 10.795	34.65	PKFH	37.8	-22.2	50.25	-	-	74	-23.75	137	247	V
	* 10.795	22.41	VA1T	37.8	-22.2	38.01	54	-15.99	-	-	137	247	V
4	3.341	41.35	PKFH	32.6	-30.6	43.35	-	-	-	-	139	210	V
	13.129	22.31	VA1T	39.3	-21.6	40.01	-	-	-	-	108	191	H
3	13.13	34.6	PKFH	39.4	-21.6	52.4	-	-	-	-	108	191	H

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

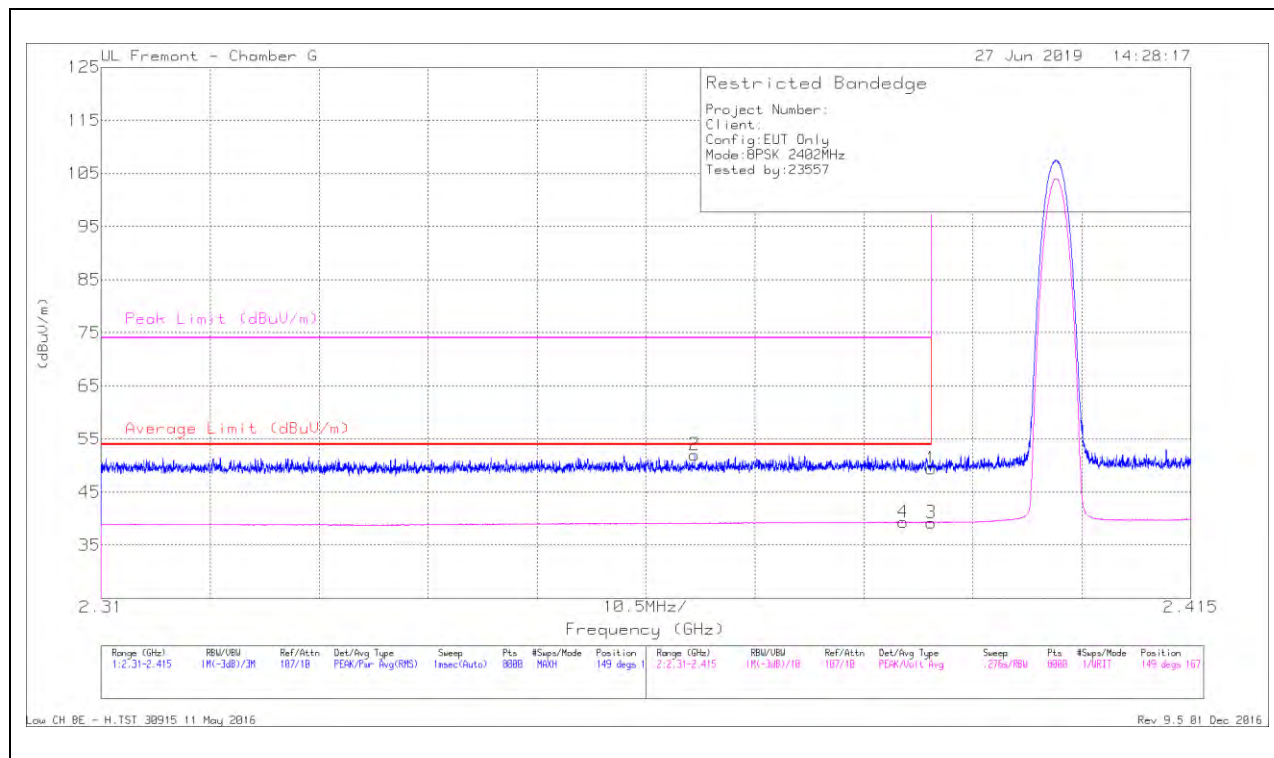
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

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

Antenna 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



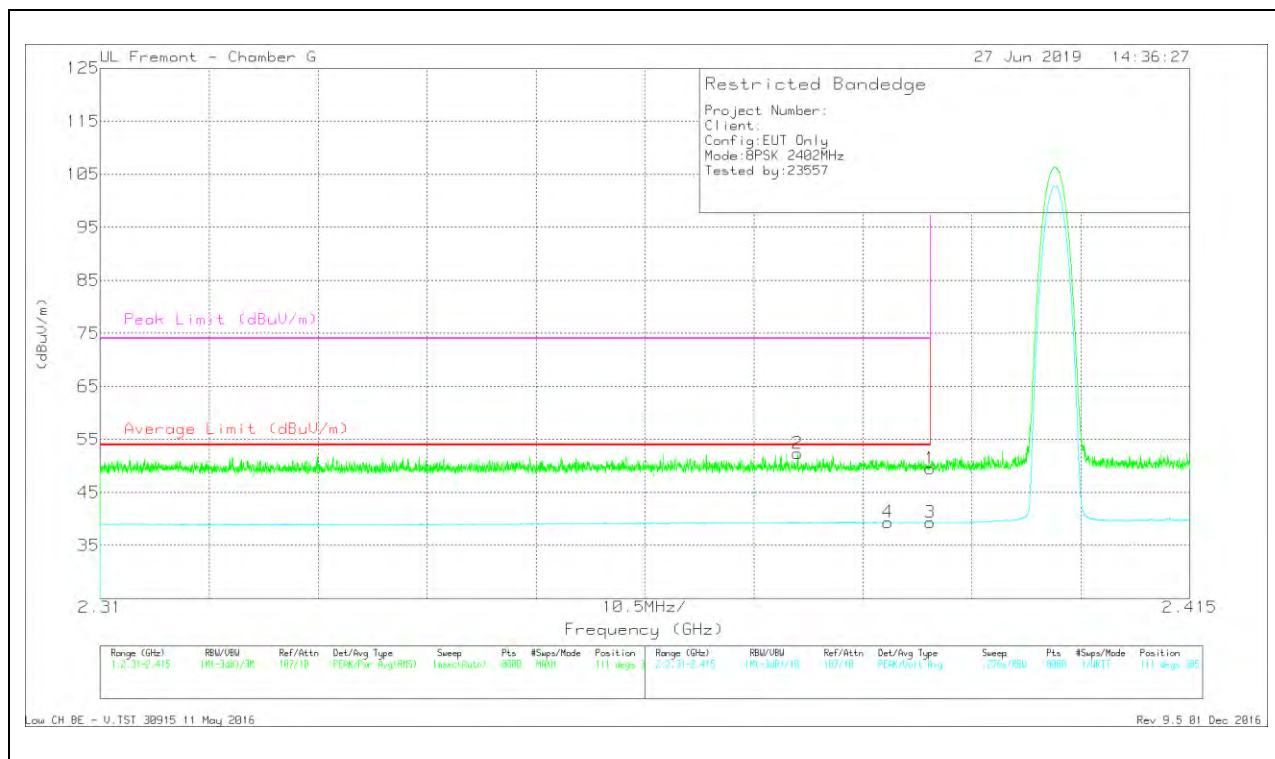
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.77	Pk	31.9	-22.2	49.47	-	-	74	-24.53	149	167	H
2	* 2.367	42.42	Pk	31.8	-22.2	52.02	-	-	74	-21.98	149	167	H
3	* 2.39	29.55	VA1T	31.9	-22.2	39.25	54	-14.75	-	-	149	167	H
4	* 2.387	29.63	VA1T	31.9	-22.2	39.33	54	-14.67	-	-	149	167	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 T120 (dB/m)	Amp/Cbl/Fitr/Pa d (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	39.81	Pk	31.9	-22.2	49.51	-	-	74	-24.49	111	385	V
2	* 2.377	42.73	Pk	31.8	-22.2	52.33	-	-	74	-21.67	111	385	V
3	* 2.39	29.61	VA1T	31.9	-22.2	39.31	54	-14.69	-	-	111	385	V
4	* 2.386	29.68	VA1T	31.9	-22.2	39.38	54	-14.62	-	-	111	385	V

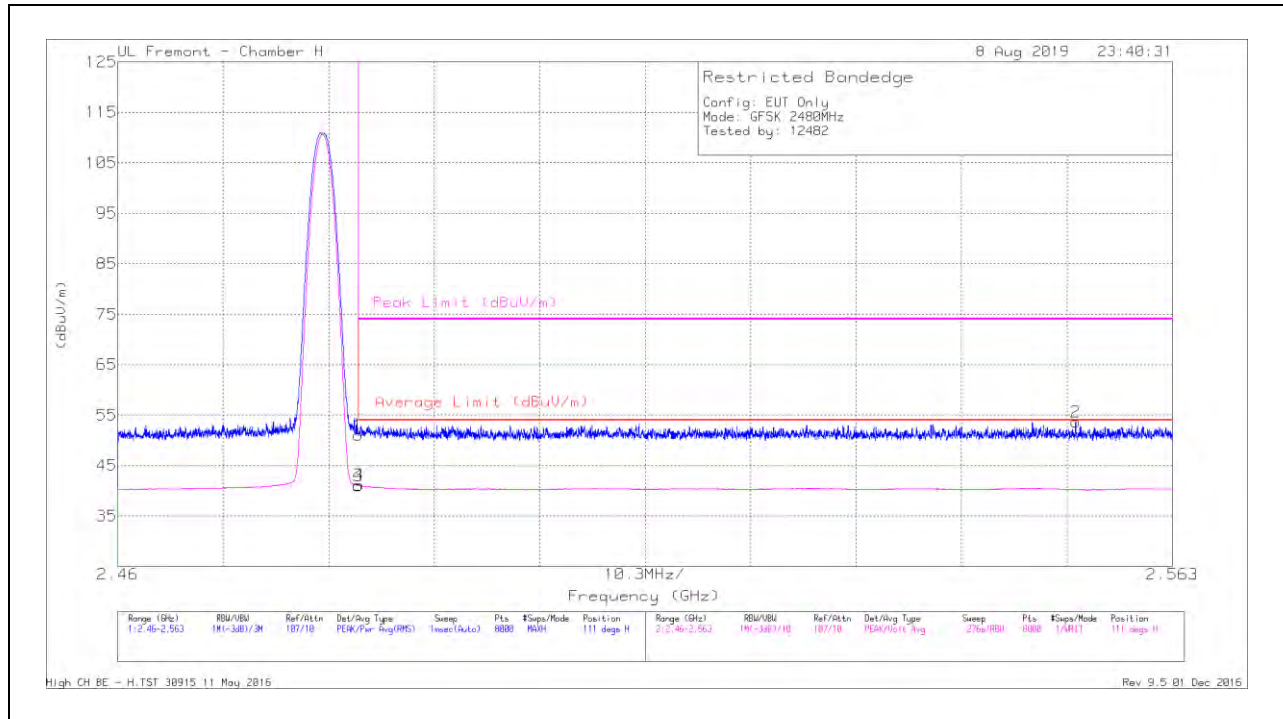
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



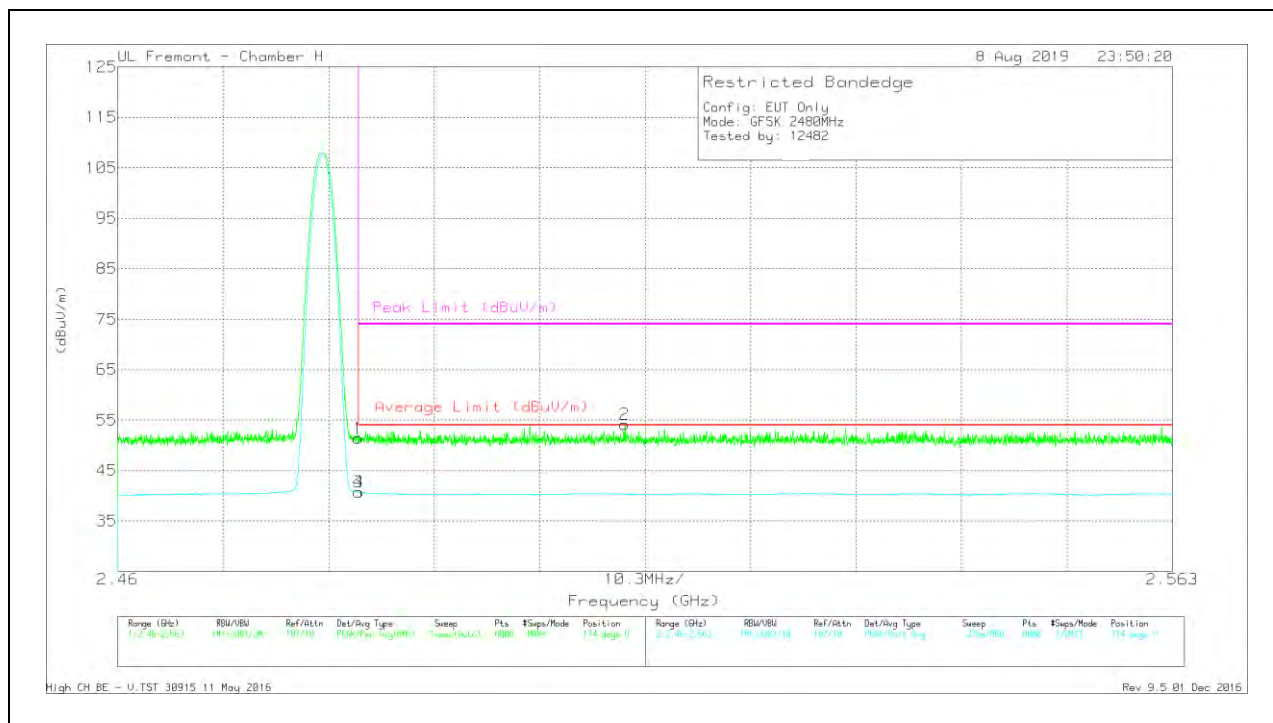
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.87	Pk	32.5	-23.3	51.07	-	-	74	-22.93	111	285	H
3	* 2.484	31.84	VA1T	32.5	-23.3	41.04	54	-12.96	-	-	111	285	H
4	* 2.484	31.86	VA1T	32.5	-23.3	41.06	54	-12.94	-	-	111	285	H
2	2.554	44.31	Pk	32.5	-23.2	53.61	-	-	74	-20.39	111	285	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/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.24	Pk	32.5	-23.3	51.44	-	-	74	-22.56	174	364	V
3	* 2.484	31.49	VA1T	32.5	-23.3	40.69	54	-13.31	-	-	174	364	V
4	* 2.484	31.48	VA1T	32.5	-23.3	40.68	54	-13.32	-	-	174	364	V
2	2.51	44.75	Pk	32.6	-23.2	54.15	-	-	74	-19.85	174	364	V

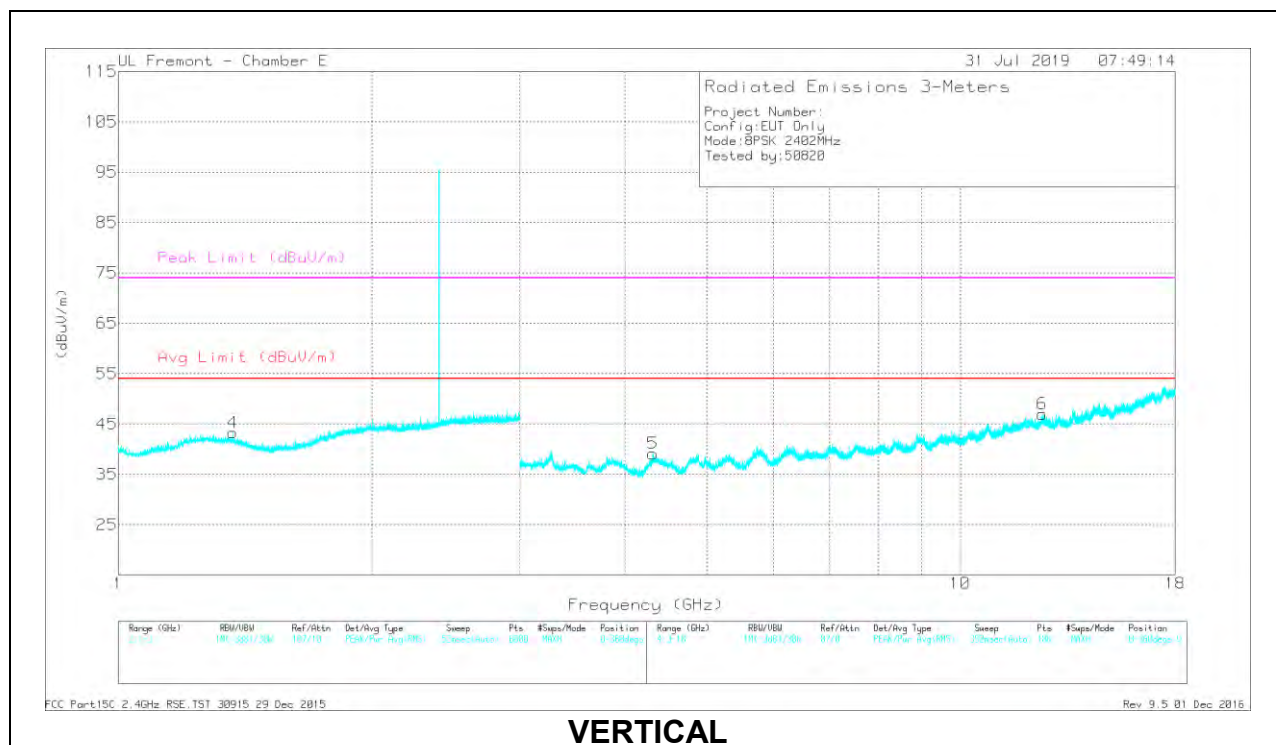
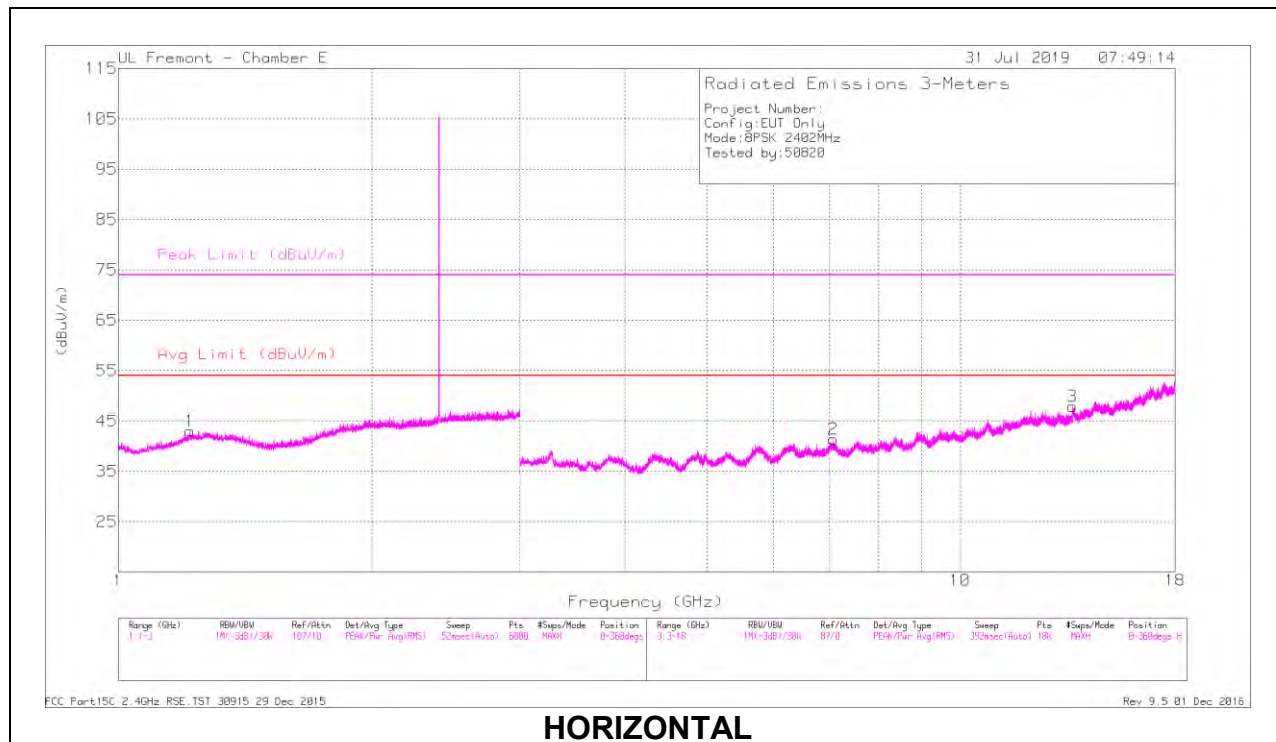
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

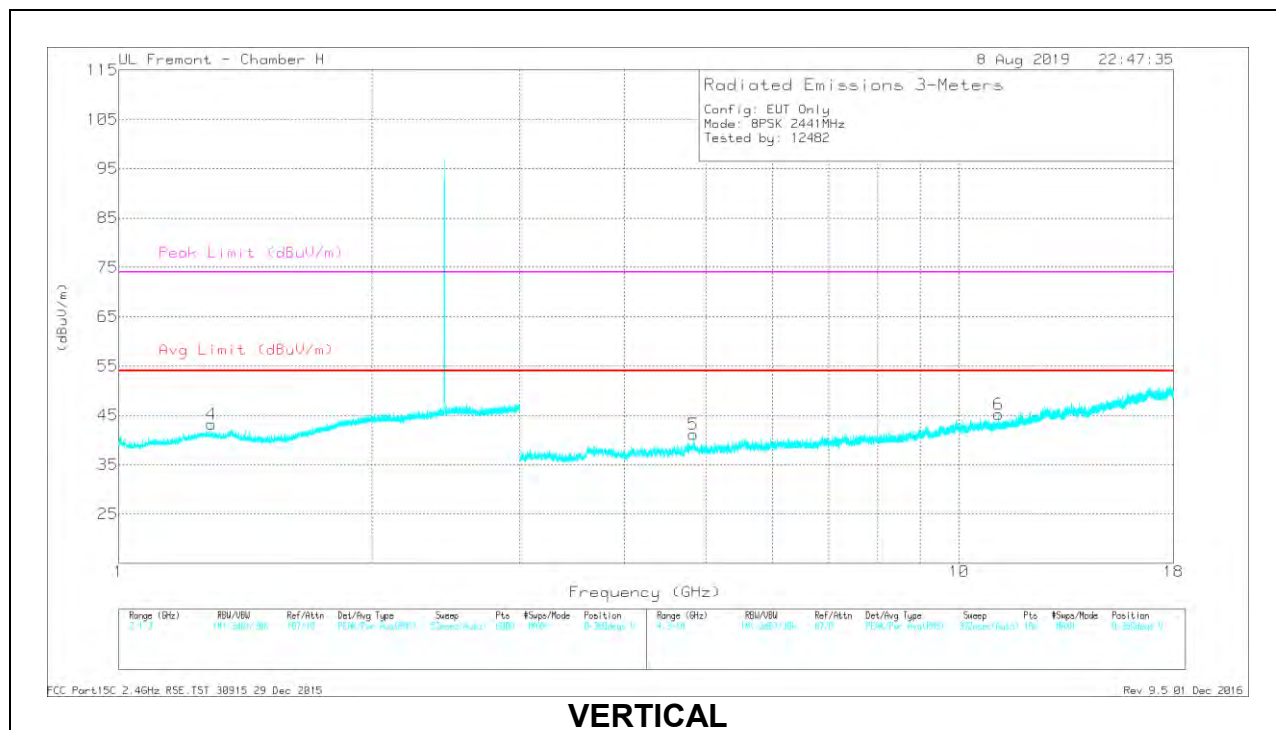
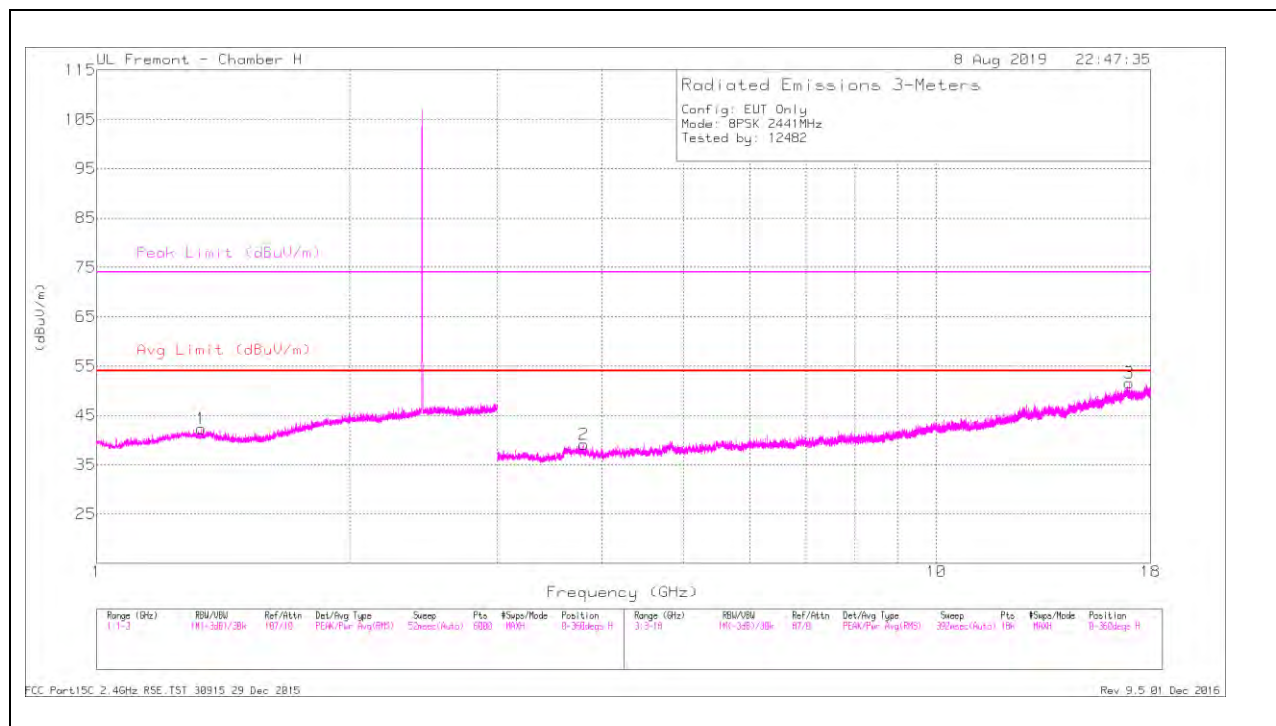
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.216	44.8	PKFH	29.8	-26.1	48.5	-	-	74	-25.5	216	325	H
	* 1.218	32.63	VA1T	29.8	-26.1	36.33	54	-17.67	-	-	216	325	H
4	* 1.37	45.66	PKFH	29.7	-26.2	49.16	-	-	74	-24.84	266	234	V
	* 1.369	32.83	VA1T	29.8	-26.2	36.43	54	-17.57	-	-	266	234	V
5	* 4.314	40.91	PKFH	33.7	-30.3	44.31	-	-	74	-29.69	335	205	V
	* 4.318	29.49	VA1T	33.7	-30.2	32.99	54	-21.01	-	-	335	205	V
6	* 12.519	34.64	PKFH	39	-21.4	52.24	-	-	74	-21.76	149	276	V
	* 12.518	22.75	VA1T	39	-21.4	40.35	54	-13.65	-	-	149	276	V
2	7.07	37.27	PKFH	35.6	-26.9	45.97	-	-	-	-	312	138	H
3	13.604	35.7	PKFH	38.6	-20.5	53.8	-	-	-	-	149	325	H

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

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

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

MID CHANNEL RESULTS



RADIATED EMISSIONS

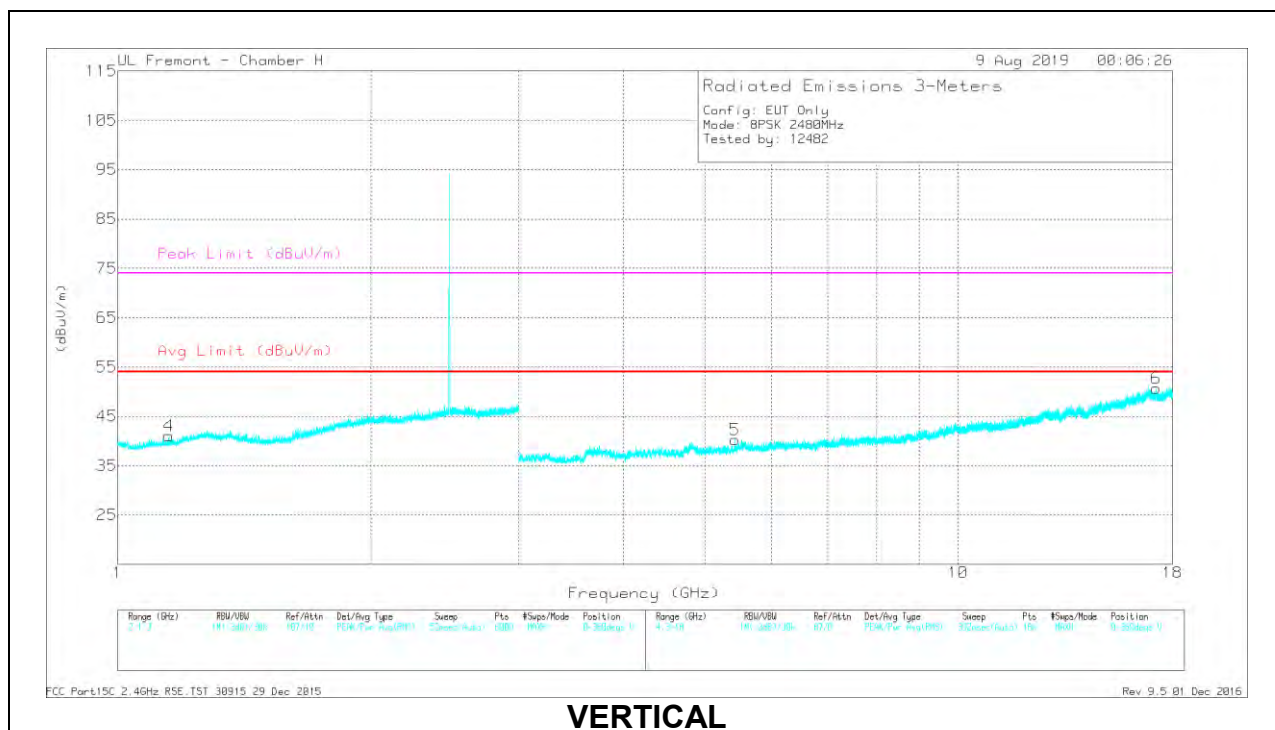
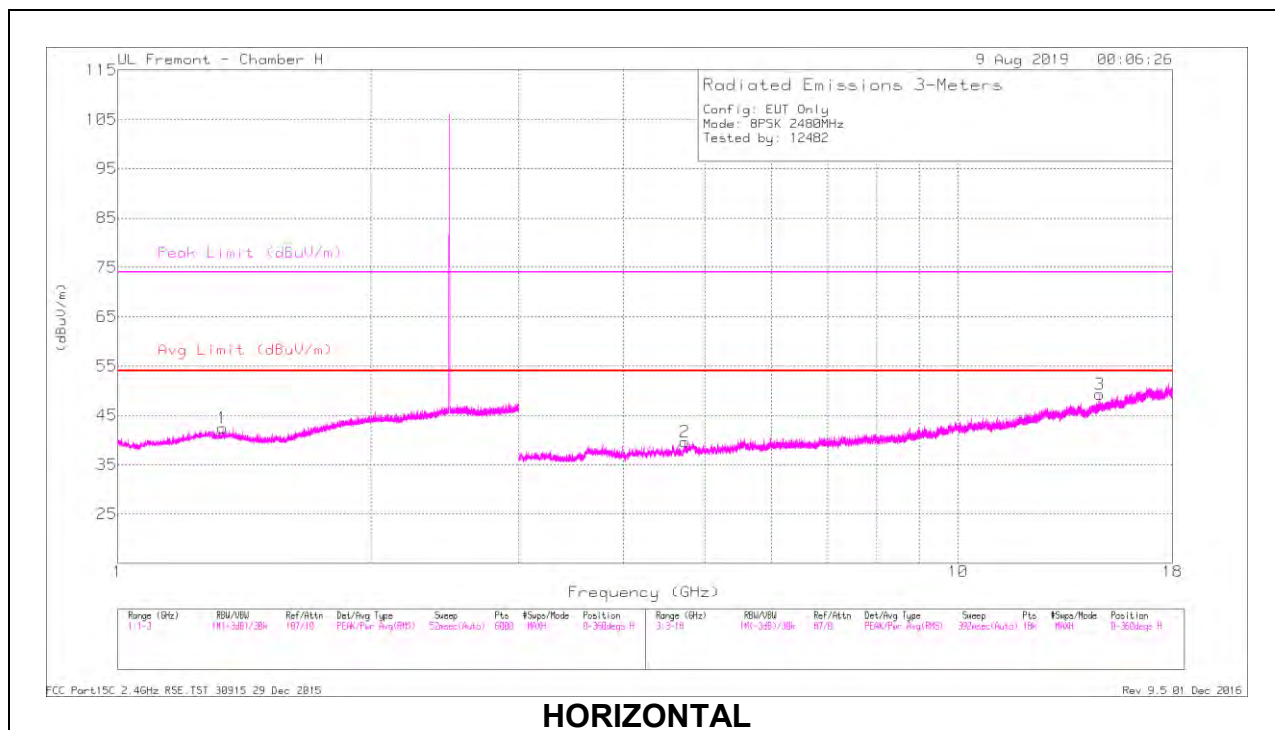
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.33	44.83	PKFH	28.8	-25.3	48.33	-	-	74	-25.67	248	102	H
	* 1.33	32.01	VA1T	28.8	-25.3	35.51	54	-18.49	-	-	248	102	H
4	* 1.289	43.82	PKFH	29.2	-25.4	47.62	-	-	74	-26.38	104	151	V
	* 1.29	32.02	VA1T	29.2	-25.4	35.82	54	-18.18	-	-	104	151	V
2	* 3.803	41.35	PKFH	33.6	-31.1	43.85	-	-	74	-30.15	32	237	H
	* 3.802	29.51	VA1T	33.6	-31.1	32.01	54	-21.99	-	-	32	237	H
5	* 4.832	40.82	PKFH	34.3	-30.4	44.72	-	-	74	-29.28	167	112	V
	* 4.829	29	VA1T	34.4	-30.4	33	54	-21	-	-	167	112	V
6	* 11.141	34.57	PKFH	37.8	-22.8	49.57	-	-	74	-24.43	199	168	V
	* 11.143	22.95	VA1T	37.8	-22.8	37.95	54	-16.05	-	-	199	168	V
3	16.966	34.66	PKFH	42.2	-20	56.86	-	-	-	-	24	324	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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.333	43.77	PKFH	28.9	-25.3	47.37	-	-	74	-26.63	64	124	H
	* 1.332	31.89	VA1T	28.8	-25.3	35.39	54	-18.61	-	-	64	124	H
4	* 1.151	45.56	PKFH	27.8	-25.7	47.66	-	-	74	-26.34	168	167	V
	* 1.149	32.16	VA1T	27.8	-25.7	34.26	54	-19.74	-	-	168	167	V
2	* 4.729	40.26	PKFH	34.3	-30	44.56	-	-	74	-29.44	61	107	H
	* 4.732	28.95	VA1T	34.2	-29.9	33.25	54	-20.75	-	-	61	107	H
5	* 5.429	38.83	PKFH	35.1	-29.1	44.83	-	-	74	-29.17	284	208	V
	* 5.429	27.33	VA1T	35.1	-29.1	33.33	54	-20.67	-	-	284	208	V
3	14.742	34.89	PKFH	40.3	-21.9	53.29	-	-	-	-	302	256	H
6	17.201	35.35	PKFH	41.6	-20.1	56.85	-	-	-	-	198	147	V

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

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

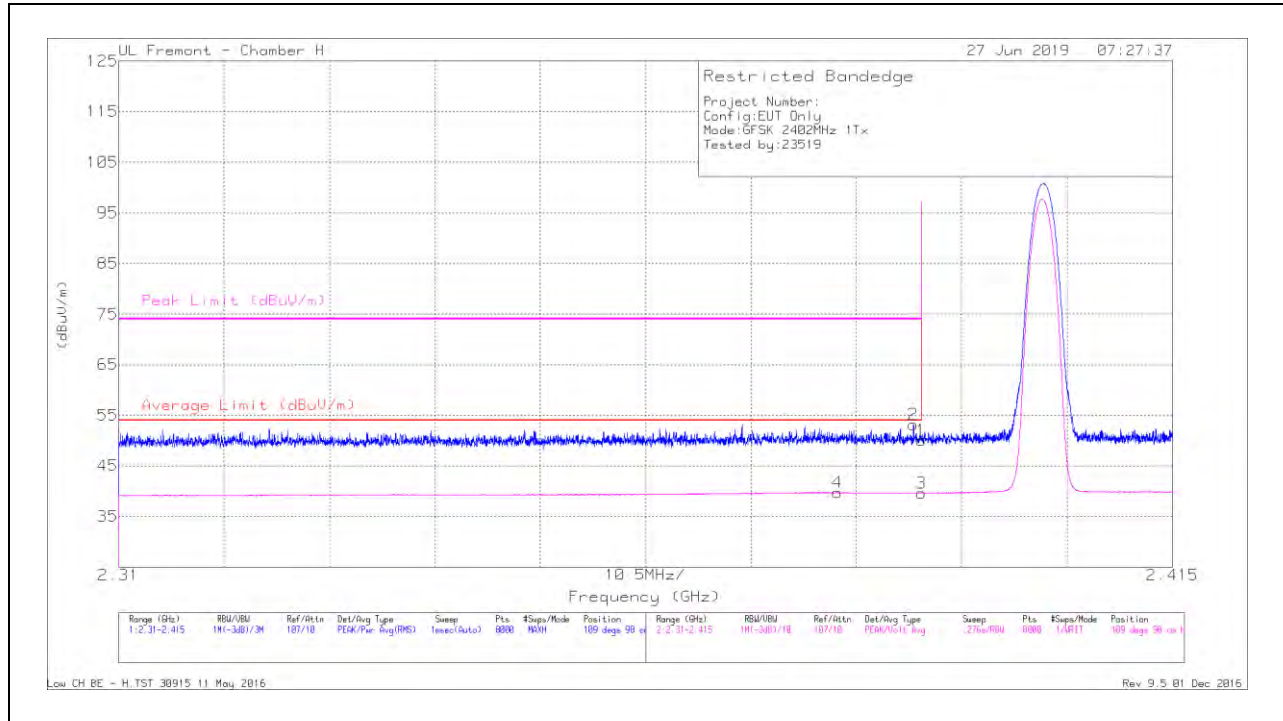
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.3. LOW POWER BASIC DATA RATE GFSK MODULATION

Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



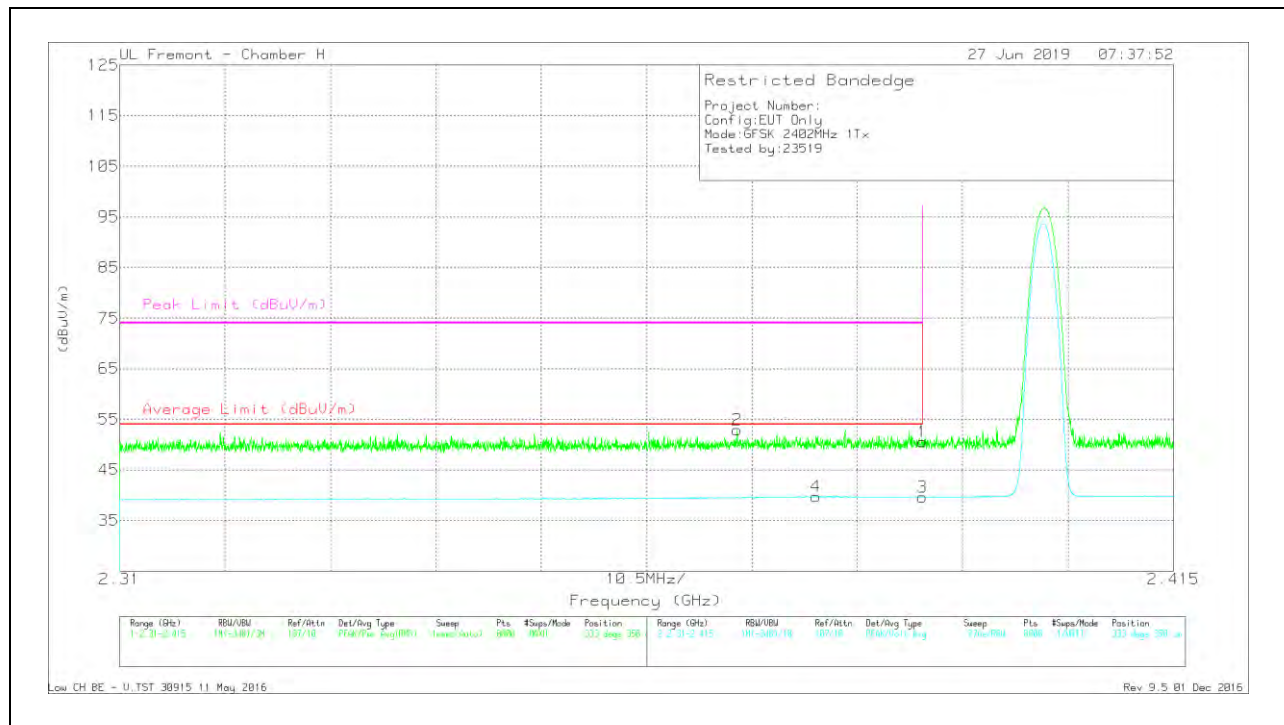
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.382	31.02	VA1T	32.2	-23.5	39.72	54	-14.28	-	-	109	98	H
2	* 2.389	44.54	Pk	32.1	-23.5	53.14	-	-	74	-20.86	109	98	H
1	* 2.39	41.47	Pk	32.1	-23.5	50.07	-	-	74	-23.93	109	98	H
3	* 2.39	31.05	VA1T	32.1	-23.5	39.65	54	-14.35	-	-	109	98	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

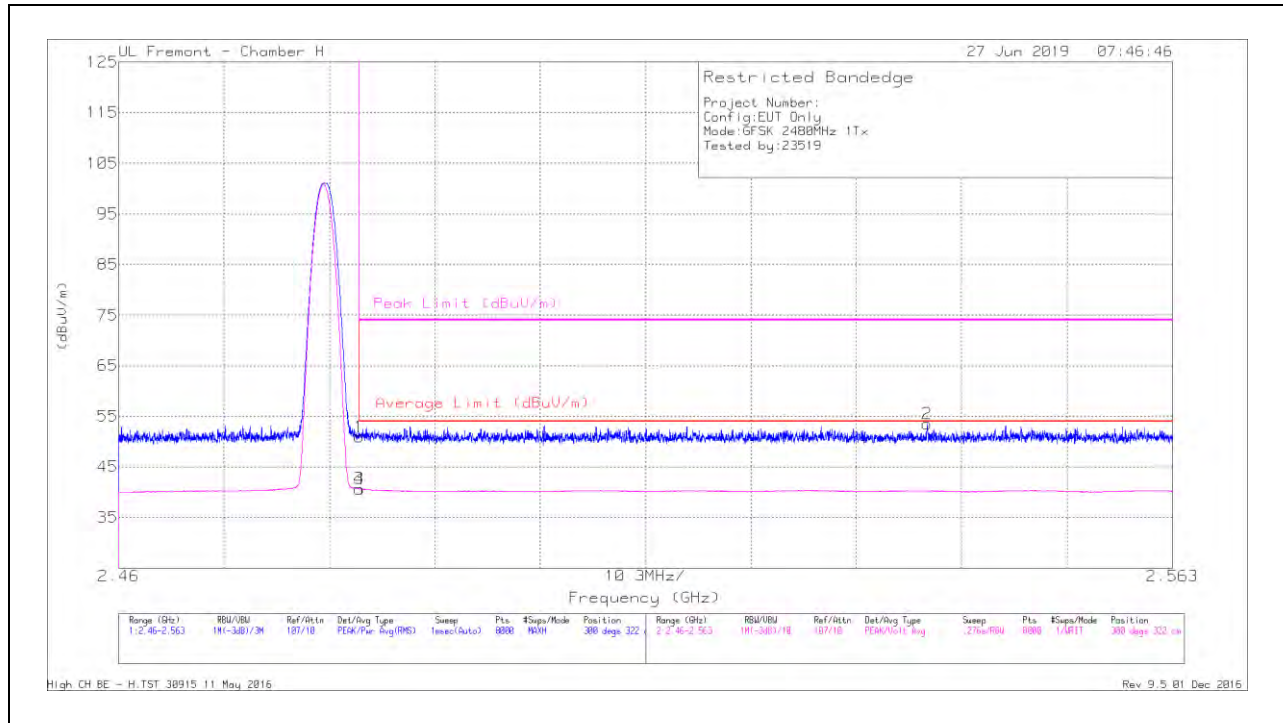


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.98	Pk	32.1	-23.5	50.58	-	-	74	-23.42	333	350	V
2	* 2.372	44.34	Pk	32.1	-23.5	52.94	-	-	74	-21.06	333	350	V
3	* 2.39	31	VA1T	32.1	-23.5	39.6	54	-14.4	-	-	333	350	V
4	* 2.379	31.02	VA1T	32.2	-23.5	39.72	54	-14.28	-	-	333	350	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**

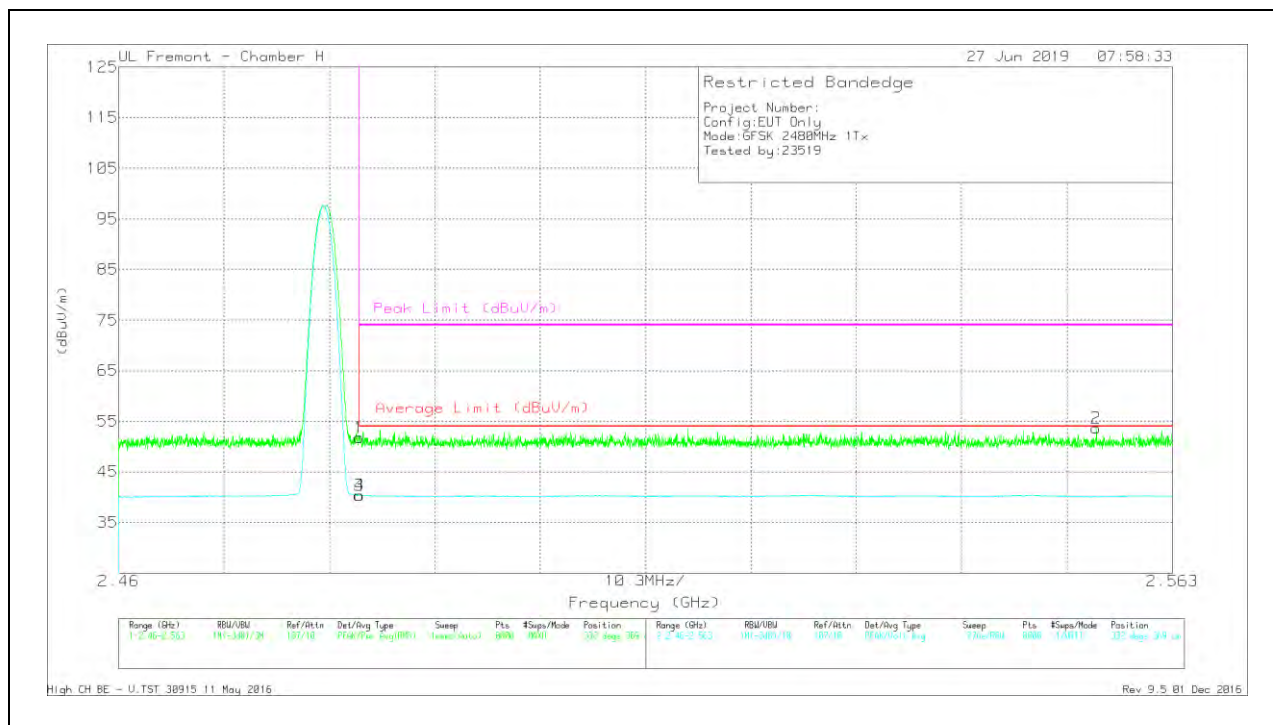
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.67	Pk	32.5	-23.3	50.87	-	-	74	-23.13	300	322	H
3	* 2.484	31.47	VA1T	32.5	-23.3	40.67	54	-13.33	-	-	300	322	H
4	* 2.484	31.44	VA1T	32.5	-23.3	40.64	54	-13.36	-	-	300	322	H
2	2.539	44.1	Pk	32.5	-23.1	53.5	-	-	74	-20.5	300	322	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	AFT863 (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	42.59	Pk	32.5	-23.3	51.79	-	-	74	-22.21	332	369	V
3	* 2.484	31.15	VA1T	32.5	-23.3	40.35	54	-13.65	-	-	332	369	V
4	* 2.484	31.2	VA1T	32.5	-23.3	40.4	54	-13.6	-	-	332	369	V
2	2.556	44.39	Pk	32.4	-23.2	53.59	-	-	74	-20.41	332	369	V

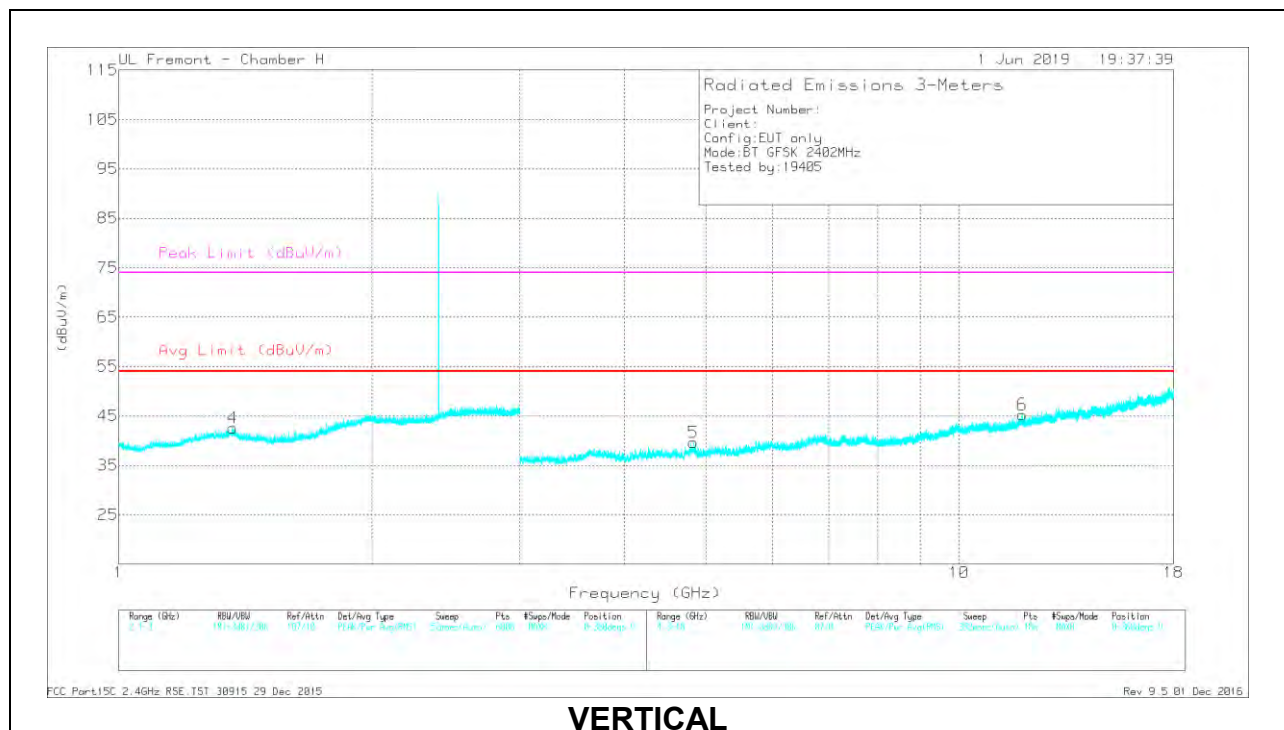
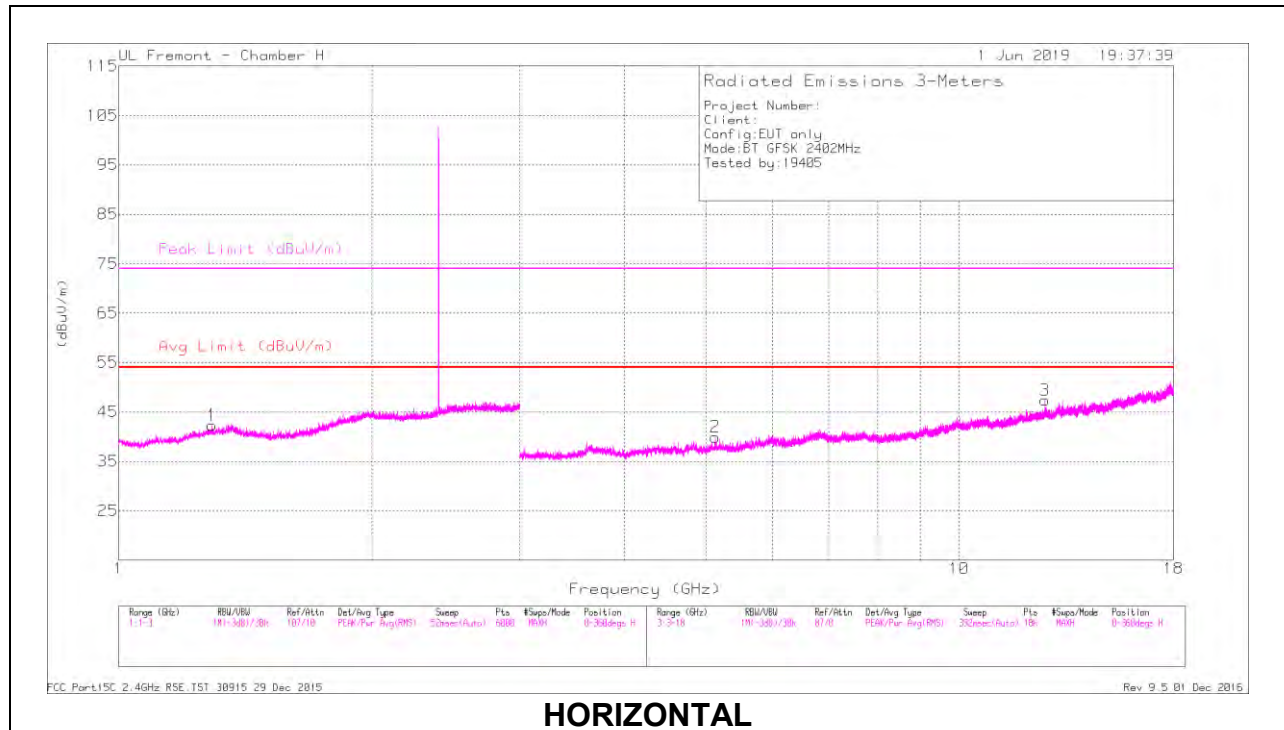
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

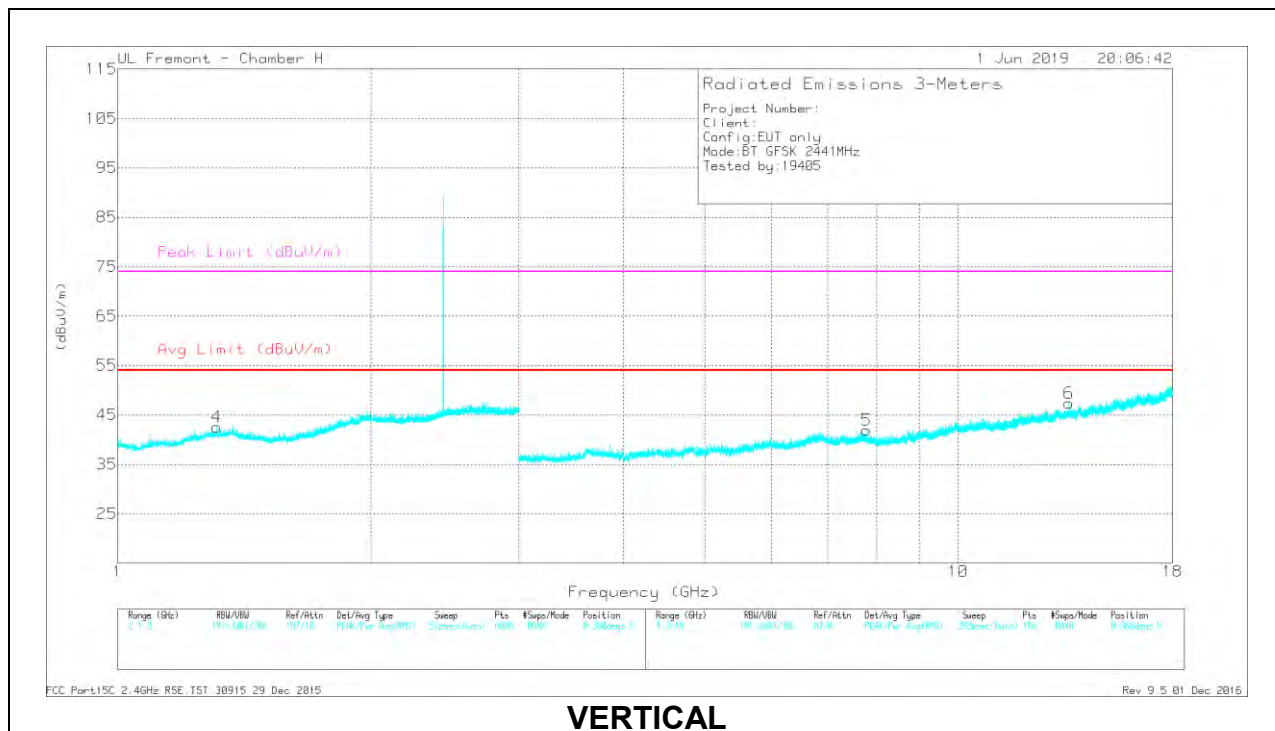
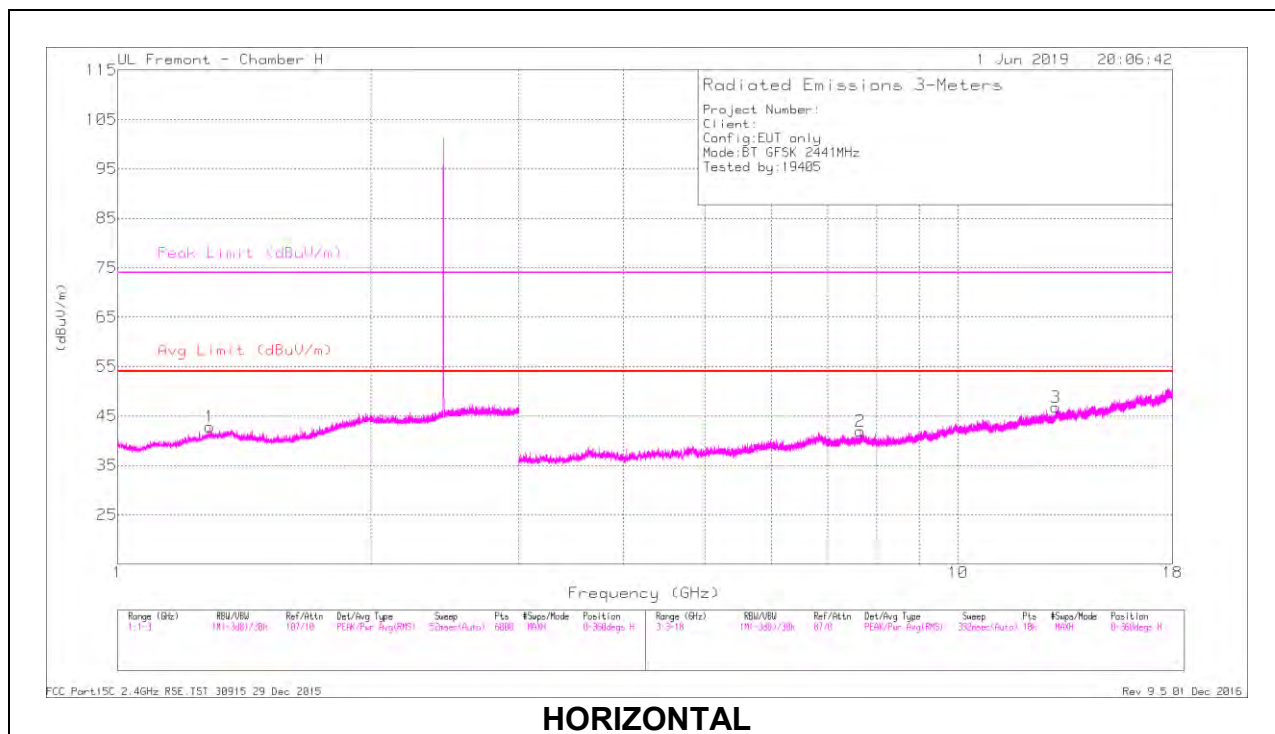
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.289	44.68	PKFH	29.3	-25.4	48.58	-	-	74	-25.42	115	173	H
	* 1.291	31.91	VA1T	29.3	-25.4	35.81	54	-18.19	-	-	115	173	H
4	* 1.367	43.35	PKFH	29.7	-25.2	47.85	-	-	74	-26.15	276	303	V
	* 1.367	31.85	VA1T	29.7	-25.2	36.35	54	-17.65	-	-	276	303	V
2	* 5.13	40.32	PKFH	34.4	-29.7	45.02	-	-	74	-28.98	152	112	H
	* 5.133	28.3	VA1T	34.5	-29.7	33.1	54	-20.9	-	-	152	112	H
3	* 12.65	34.48	PKFH	39.3	-22.2	51.58	-	-	74	-22.42	184	106	H
	* 12.649	22.51	VA1T	39.3	-22.2	39.61	54	-14.39	-	-	184	106	H
5	* 4.833	41.36	PKFH	34.1	-30.4	45.06	-	-	74	-28.94	65	352	V
	* 4.832	29.04	VA1T	34.1	-30.4	32.74	54	-21.26	-	-	65	352	V
6	* 11.901	35.54	PKFH	38.7	-22.9	51.34	-	-	74	-22.66	224	140	V
	* 11.899	22.94	VA1T	38.7	-22.9	38.74	54	-15.26	-	-	224	140	V

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

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

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

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.286	44.21	PKFH	29.2	-25.4	48.01	-	-	74	-25.99	124	328	H
	* 1.285	31.93	VA1T	29.2	-25.4	35.73	54	-18.27	-	-	124	328	H
4	* 1.312	43.75	PKFH	29.2	-25.4	47.55	-	-	74	-26.45	27	247	V
	* 1.311	31.97	VA1T	29.2	-25.4	35.77	54	-18.23	-	-	27	247	V
2	* 7.655	37.29	PKFH	36.6	-27.1	46.79	-	-	74	-27.21	240	205	H
	* 7.657	25.64	VA1T	36.6	-27	35.24	54	-18.76	-	-	240	205	H
5	7.777	24.99	VA1T	36.4	-26.4	34.99	-	-	-	-	137	319	V
	7.778	37.05	PKFH	36.4	-26.4	47.05	-	-	-	-	137	319	V
3	13.083	34.2	PKFH	39.4	-21.7	51.9	-	-	-	-	348	125	H
	13.084	22.44	VA1T	39.4	-21.7	40.14	-	-	-	-	348	125	H
6	13.551	22.29	VA1T	39.2	-21.3	40.19	-	-	-	-	304	213	V
	13.552	33.94	PKFH	39.2	-21.3	51.84	-	-	-	-	304	213	V

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

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

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