



FCC 47 CFR PART 15 SUBPART C

INDUSTRY CANADA RSS-210 ISSUE 8

CERTIFICATION TEST REPORT

FOR

SMART WATCH WITH 2.4 DTS b/g/n + BT & BLE

MODEL NUMBER: LG-W150, W150, LGW150

FCC ID: ZNFW150

IC ID: 2703C-W150

REPORT NUMBER: 15I20081-E1

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Prepared for

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NVLAP LAB CODE 200065-0

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC
EUT DESCRIPTION: SMART WATCH WITH 2.4 DTS b/g/n + BT & BLE
MODEL: LG-W150, W150, LGW150
SERIAL NUMBER: 1PRQQ (Radiated), 1PRH3 (Conducted)
DATE TESTED: FEBRUARY 16-19, 2015

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 ISSUE 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN ISSUE 4	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 4, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
<input type="checkbox"/> Chamber A(IC: 2324B-1)	<input type="checkbox"/> Chamber D(IC: 2324B-4)
<input type="checkbox"/> Chamber B(IC: 2324B-2)	<input type="checkbox"/> Chamber E(IC: 2324B-5)
<input type="checkbox"/> Chamber C(IC: 2324B-3)	<input type="checkbox"/> Chamber F(IC: 2324B-6)
	<input checked="" type="checkbox"/> Chamber G(IC: 2324B-7)
	<input type="checkbox"/> Chamber H(IC: 2324B-8)

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable} \\ &\text{Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 18000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a SMART WATCH WITH 2.4 DTS b/g/n + BT & BLE

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2402 - 2480	Basic GFSK	9.75	9.44
2402 - 2480	Enhanced 8PSK	7.75	5.96

Note: GFSK, Pi/4-DQPSK, 8PSK average Power are all investigated, The GFSK & 8PSK Power are the worst case. Testing is based on this mode to showing compliance. For average power data please refer to section 8.6.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes metal antenna (using metal frame (Front) around the W150), with a maximum gain of - 2.8 dBi.

5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-02WD	N/A	N/A
Charger	LG	SDT-330	N/A	N/A

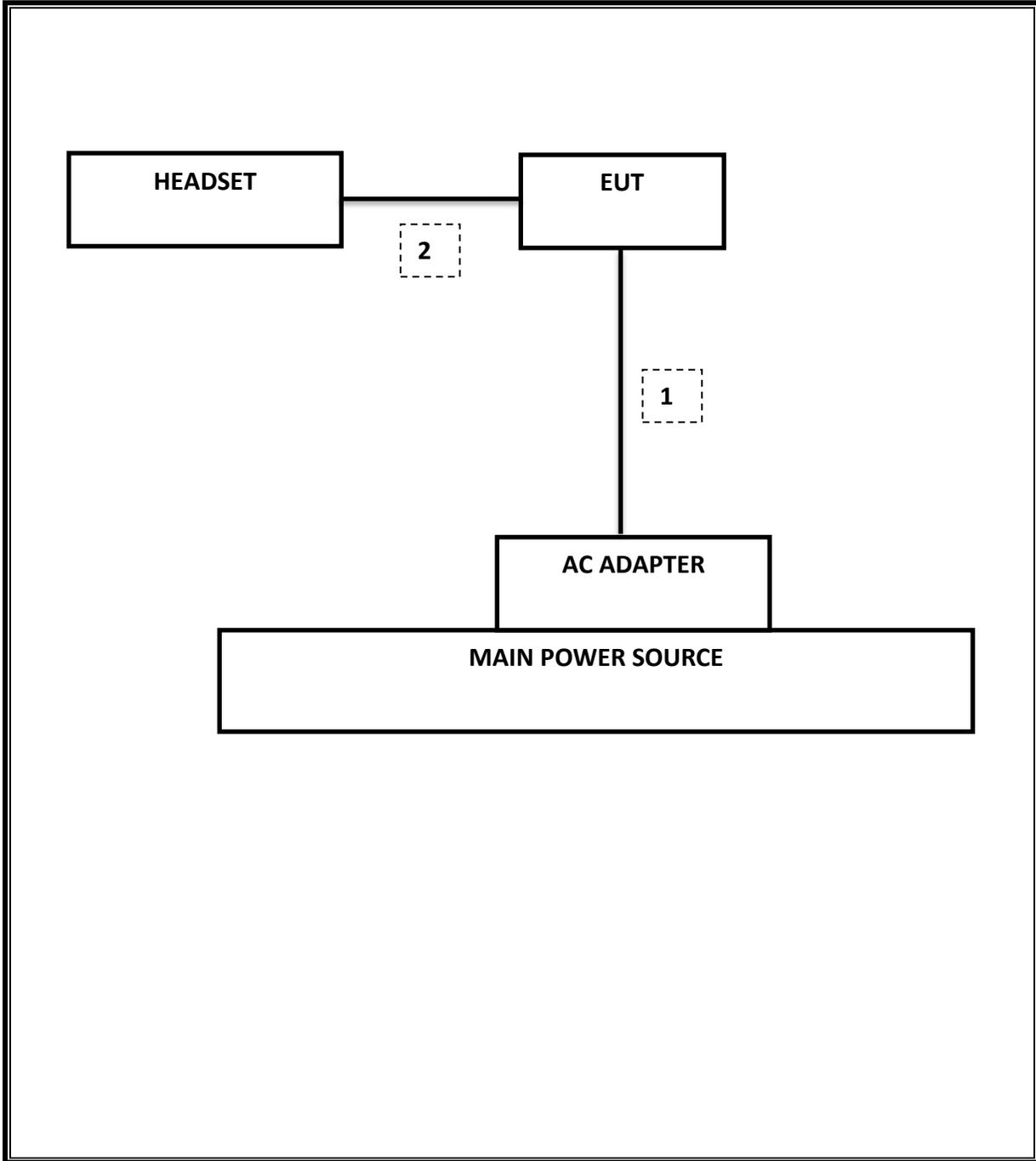
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1m	N/A

TEST SETUP

The EUT is continuously communicating to the Bluetooth tester during the tests.
EUT was set in the Hidden menu mode to enable BT communications.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	F00064	12/08/15
Antenna, Horn, 18 GHz	EMCO	3115	C00783	10/25/15
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/14/15
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	04/28/15
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	10/22/15
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/15
CBT Bluetooth Tester	R & S	CBT	None	07/12/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/16/16
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Version 9.5, 07/22/14
Conducted Software	UL	UL EMC	Version 9.5, 05/17/14
CLT Software	UL	UL RF	Version 1.0, 02/02/15
Antenna Port Software	UL	UL RF	Version 2.1.1.1, 1/20/15

7. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
2.1049	RSS-GEN 6.6	Occupied Band width (99%)	N/A	Conducted	Pass	1.247 MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-30.7 dBm
15.247 (b)(1)	RSS-210 A8.4 (2)	TX conducted output power	<21dBm		Pass	9.75 dBm
15.247 (a)(1)	RSS-210 A8.1(b)	Hopping frequency separation	> 25KHz		Pass	1 MHz
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Number of Hopping channels	More than 15 non-overlapping channels		Pass	79 ch
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Avg Time of Occupancy	< 0.4sec		Pass	0.2920 s
15.207 (a)	RSS-GEN 8.8	AC Power Line conducted emissions	Section 10		Radiated	Pass
15.205, 15.209	RSS -GEN 8.9	Radiated Spurious Emission	< 54dBuV/m	Pass		45.94 dBuV/m

8. ANTENNA PORT TEST RESULTS

8.1. 20 dB AND 99% BANDWIDTH

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a spectrum analyzer. The RBW is set to $\geq 1\%$ of the 20 dB bandwidth. The VBW is set to \geq RBW. The sweep time is coupled.

RESULTS

8.1.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	0.9362	0.9224
Middle	2441	0.9352	0.9039
High	2480	0.9341	0.9081
Worst		0.9362	0.9224

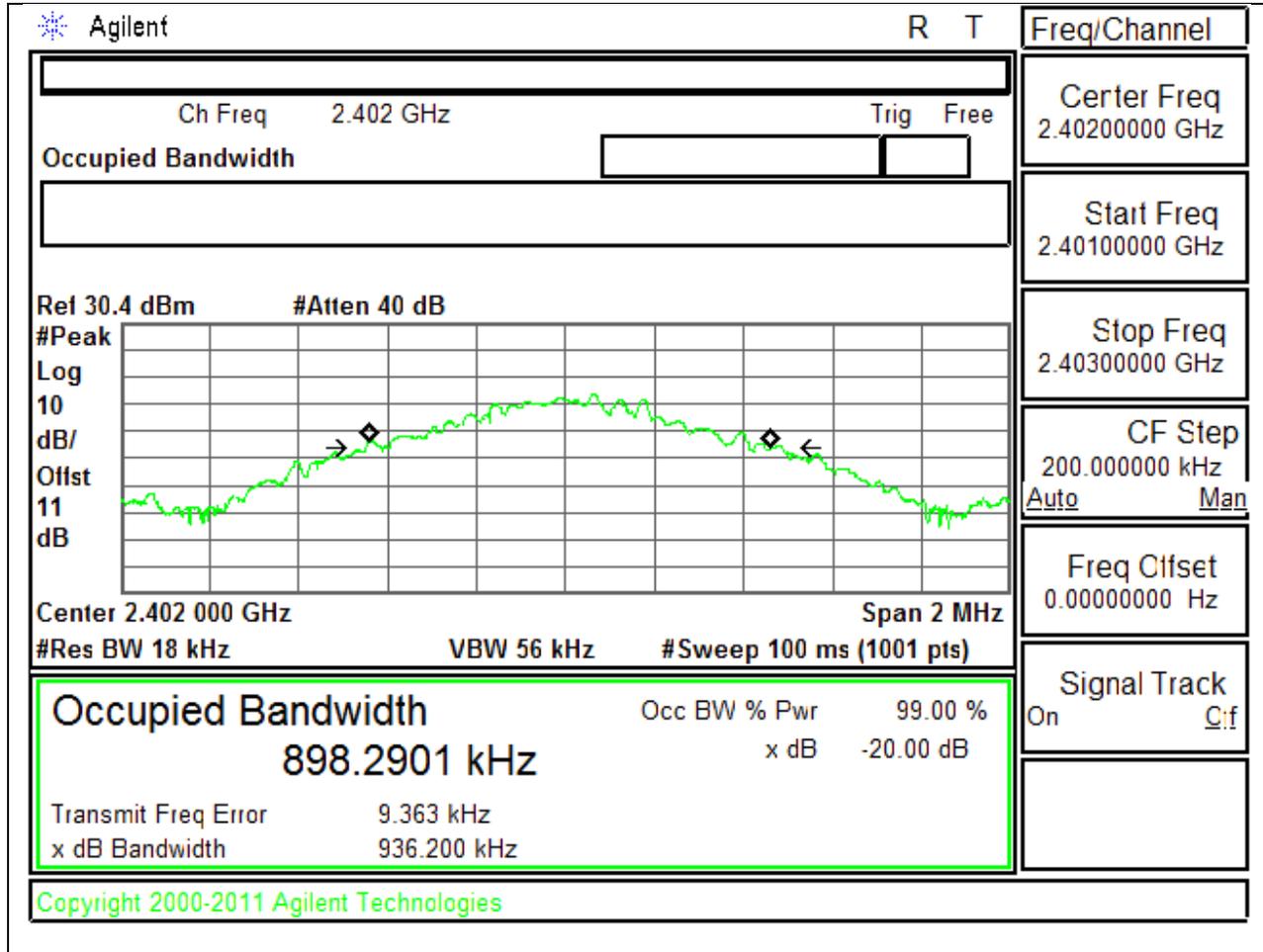
8.1.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	1.311	1.2038
Middle	2441	1.338	1.2471
High	2480	1.311	1.2205
Worst		1.338	1.2471

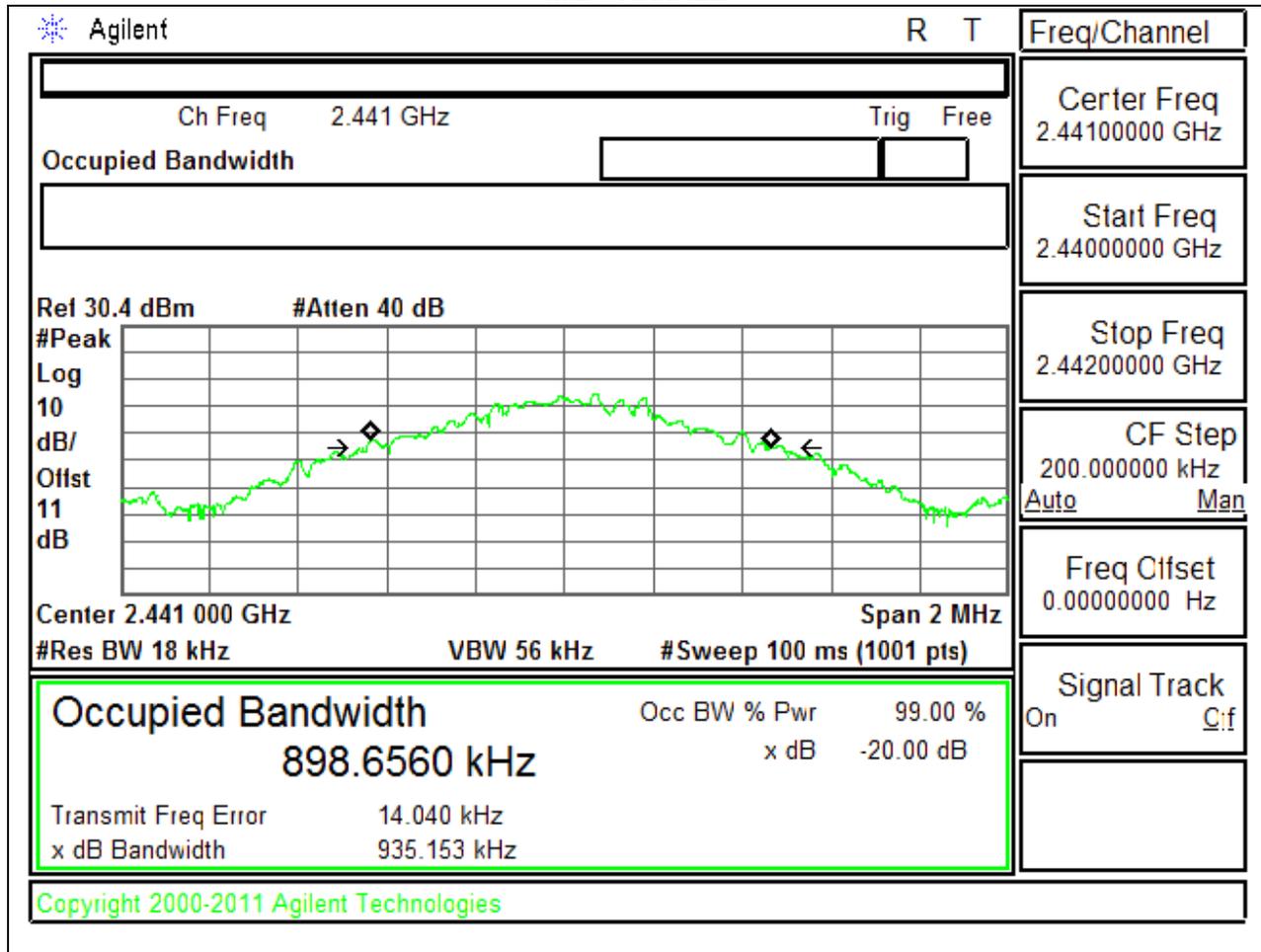
8.1.3. 20 dB AND 99% BANDWIDTH PLOTS

GFSK 20 dB BANDWIDTH

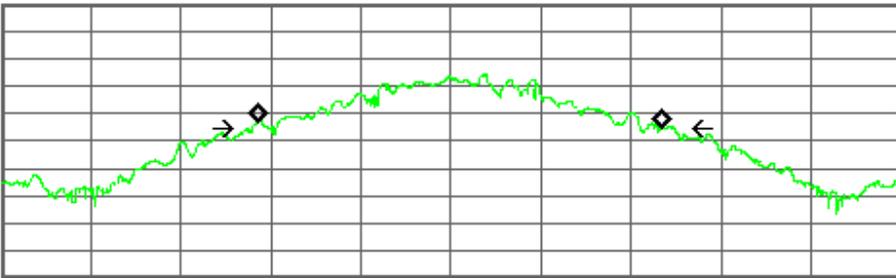
LOW CHANNEL



MID CHANNEL

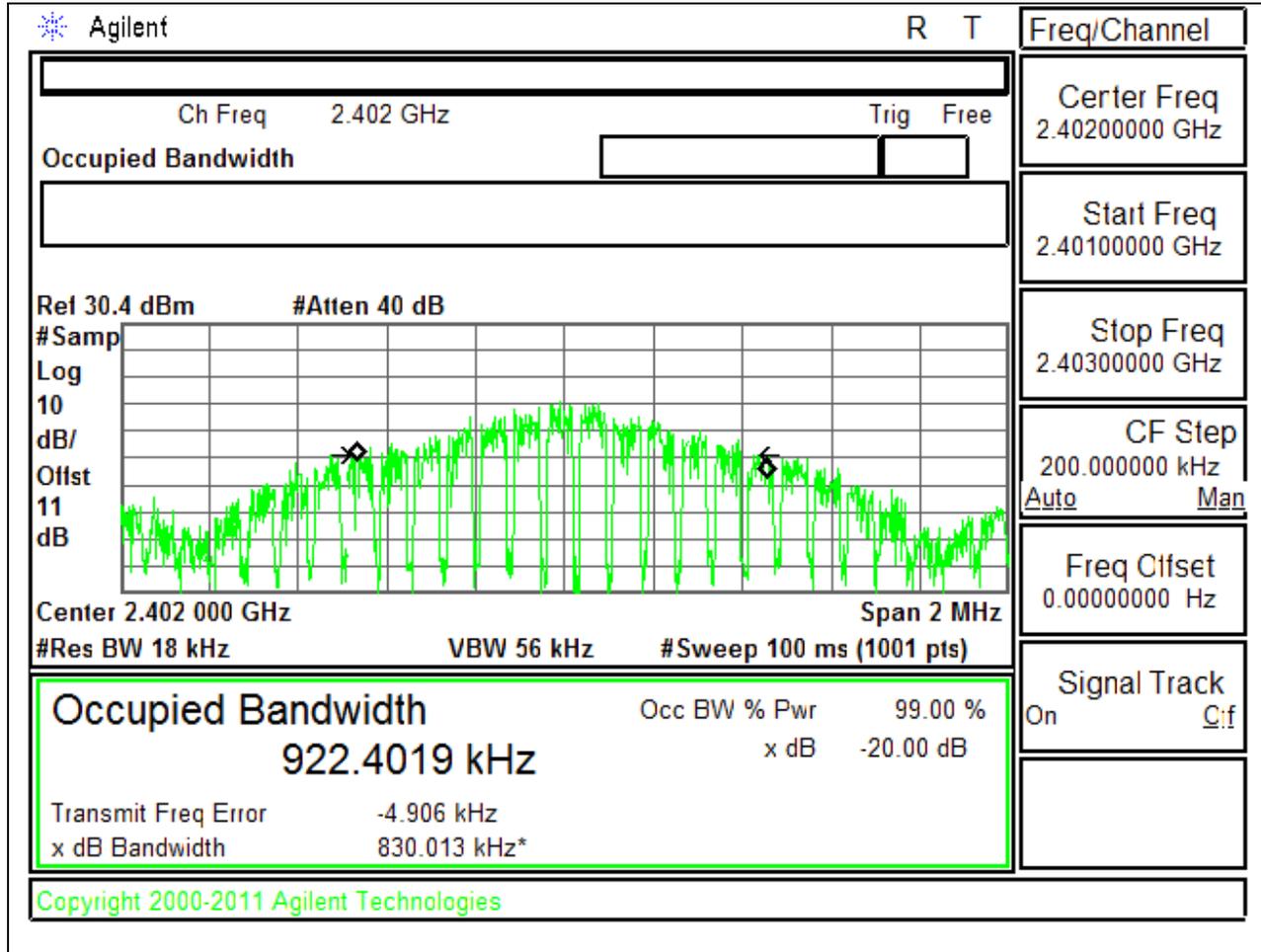


HIGH CHANNEL

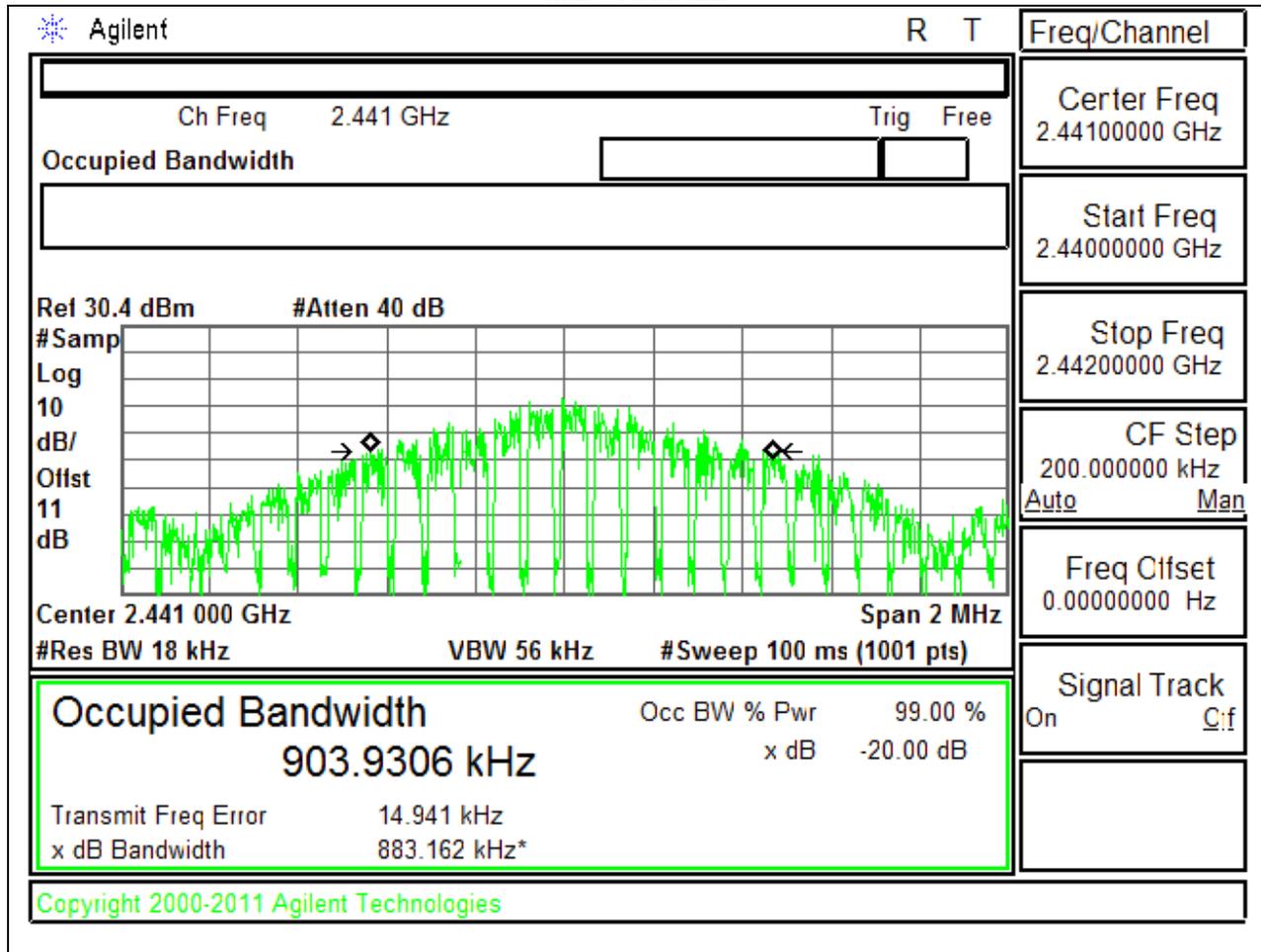
 Agilent	R T	Freq/Channel	
Ch Freq 2.48 GHz Trig Free		Center Freq 2.48000000 GHz	
Occupied Bandwidth		Start Freq 2.47900000 GHz	
Ref 30.4 dBm #Atten 40 dB		Stop Freq 2.48100000 GHz	
#Peak Log 10 dB/ Offst 11 dB		CF Step 200.000000 kHz Auto Man	
		Freq Offset 0.00000000 Hz	
Center 2.480 000 GHz #Res BW 18 kHz		Span 2 MHz VBW 56 kHz #Sweep 100 ms (1001 pts)	
Occupied Bandwidth 897.0113 kHz		Occ BW % Pwr 99.00 % x dB -20.00 dB	
Transmit Freq Error 17.765 kHz x dB Bandwidth 934.108 kHz		Signal Track On Cif	
Copyright 2000-2011 Agilent Technologies			

GFSK 99% BANDWIDTH

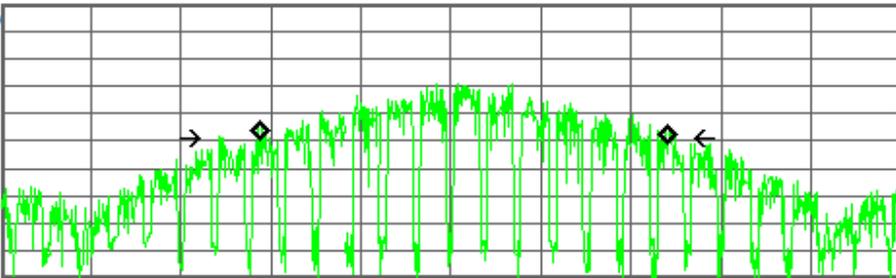
LOW CHANNEL



MID CHANNEL

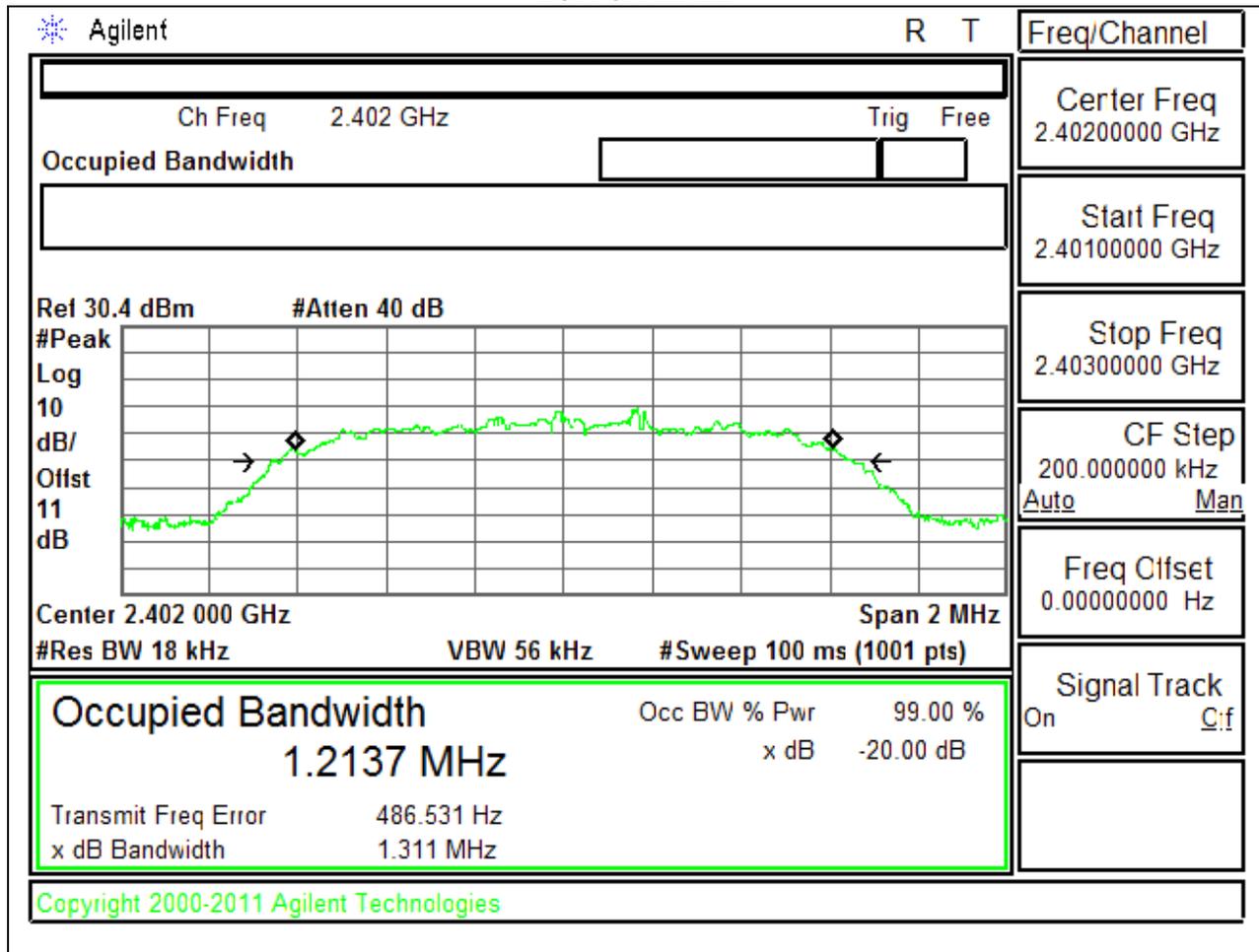


HIGH CHANNEL

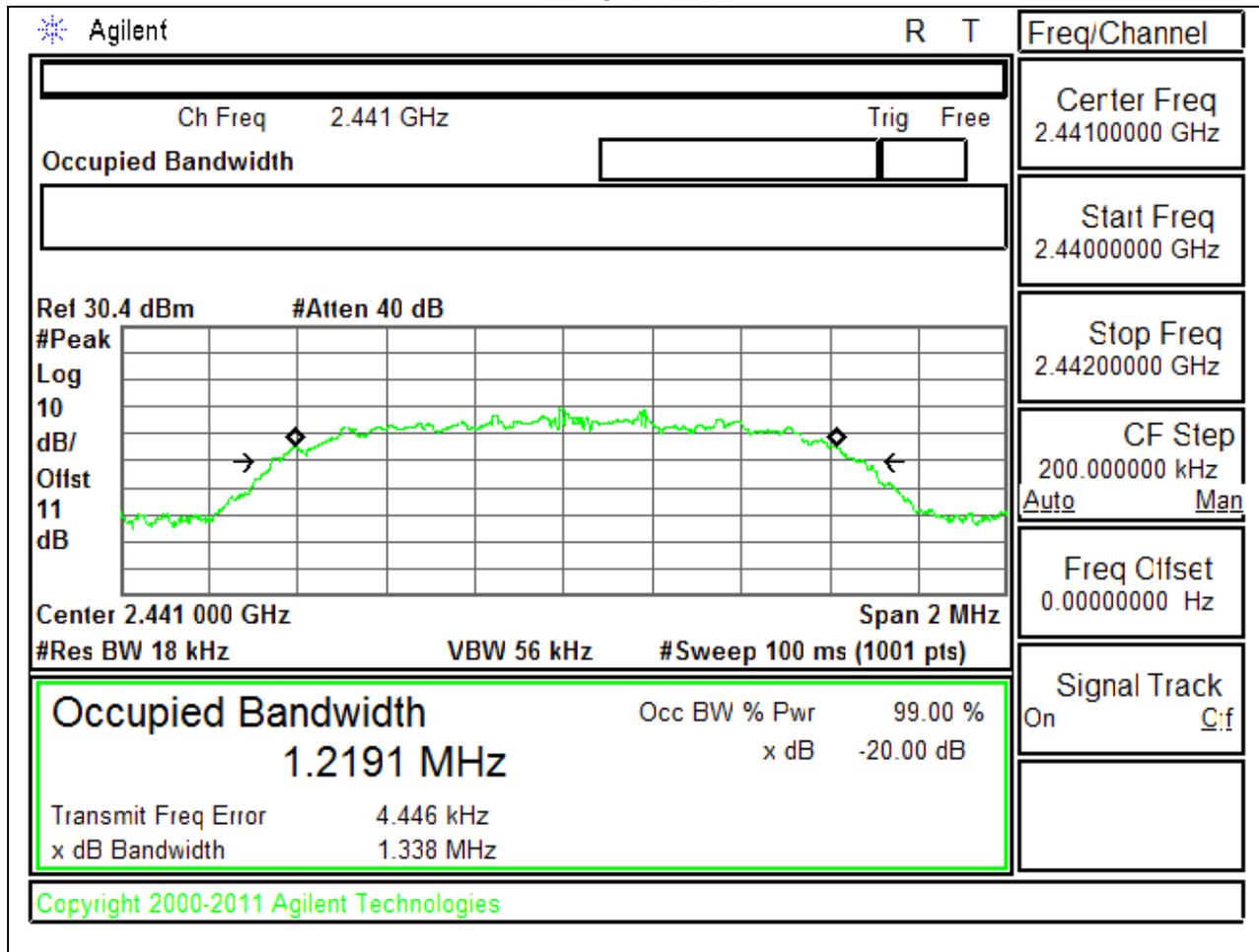
 Agilent	R T	Freq/Channel							
Ch Freq 2.48 GHz Trig Free		Center Freq 2.48000000 GHz							
Occupied Bandwidth		Start Freq 2.47900000 GHz							
Ref 30.4 dBm #Atten 40 dB		Stop Freq 2.48100000 GHz							
#Samp Log 10 dB/ Offst 11 dB		CF Step 200.000000 kHz Auto Man							
		Freq Offset 0.00000000 Hz							
Center 2.480 000 GHz Span 2 MHz		Signal Track On Cif							
#Res BW 18 kHz VBW 56 kHz #Sweep 100 ms (1001 pts)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"> Occupied Bandwidth 908.0747 kHz </td> <td style="text-align: center;"> Occ BW % Pwr 99.00 % </td> </tr> <tr> <td style="text-align: center;"> Transmit Freq Error 28.947 kHz </td> <td style="text-align: center;"> x dB -20.00 dB </td> </tr> <tr> <td style="text-align: center;"> x dB Bandwidth 1.017 MHz* </td> <td></td> </tr> </table>		Occupied Bandwidth 908.0747 kHz	Occ BW % Pwr 99.00 %	Transmit Freq Error 28.947 kHz	x dB -20.00 dB	x dB Bandwidth 1.017 MHz*	
Occupied Bandwidth 908.0747 kHz	Occ BW % Pwr 99.00 %								
Transmit Freq Error 28.947 kHz	x dB -20.00 dB								
x dB Bandwidth 1.017 MHz*									
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8PSK 20 dB BANDWIDTH

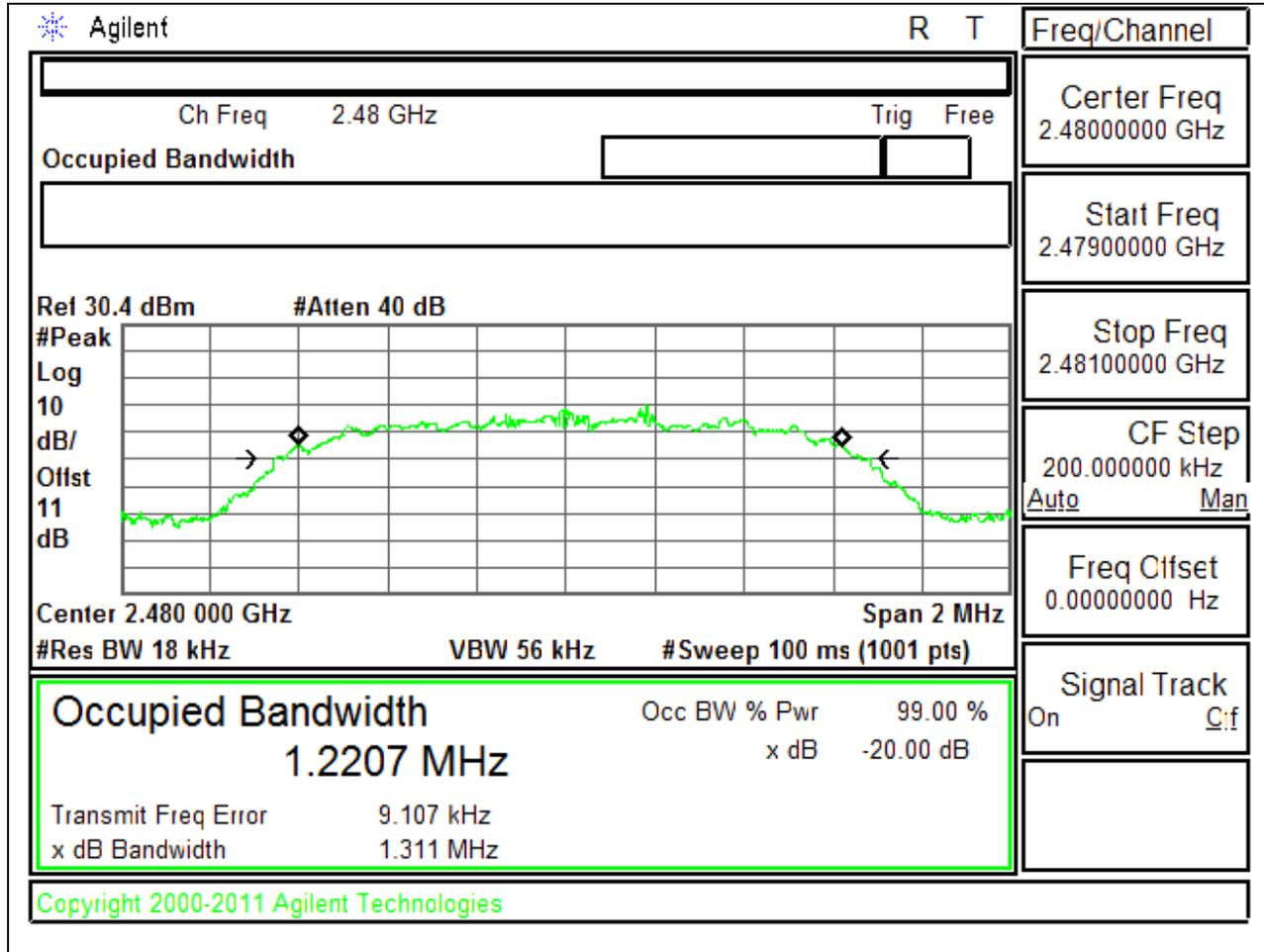
LOW CHANNEL



MID CHANNEL

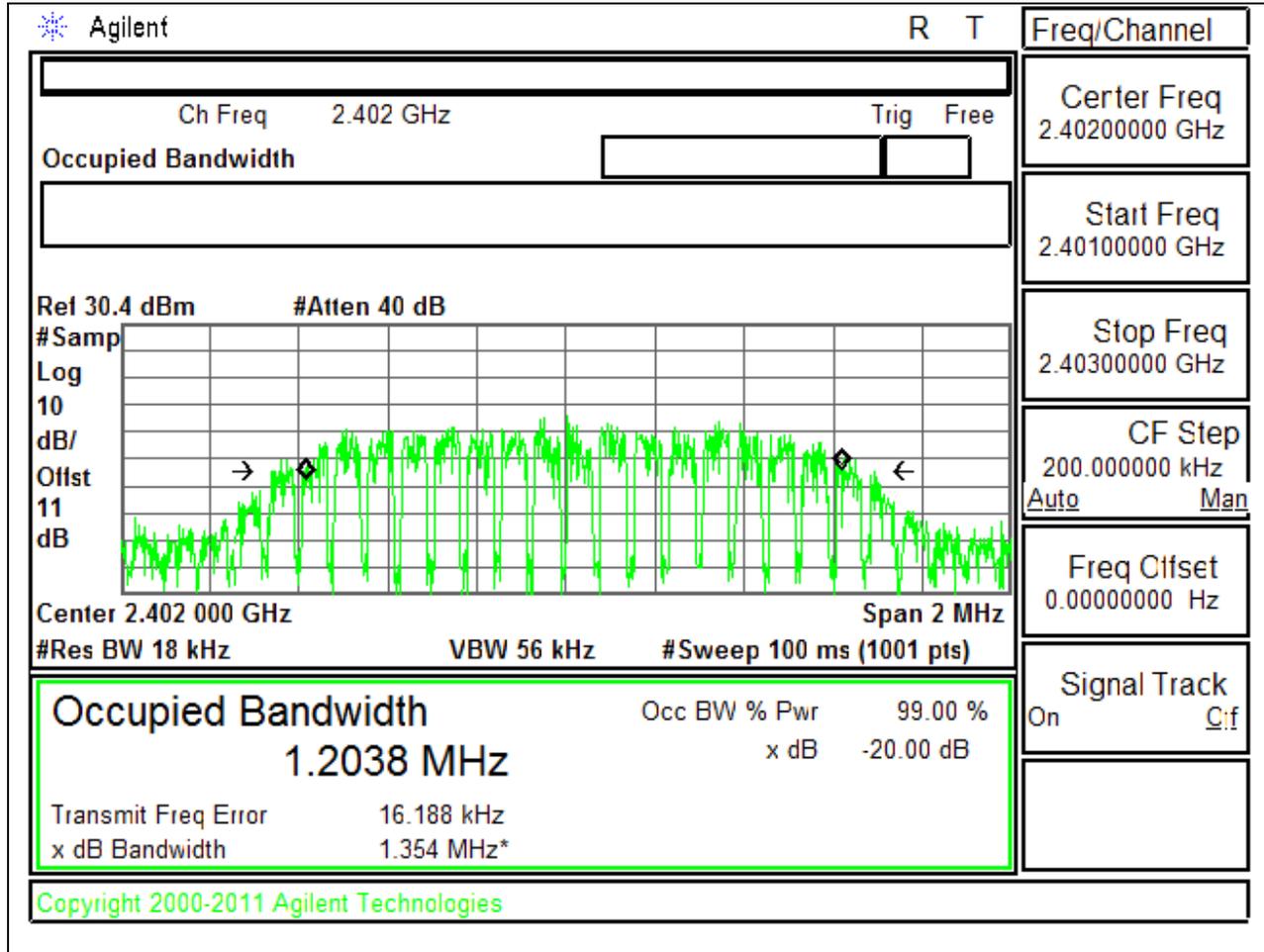


HIGH CHANNEL

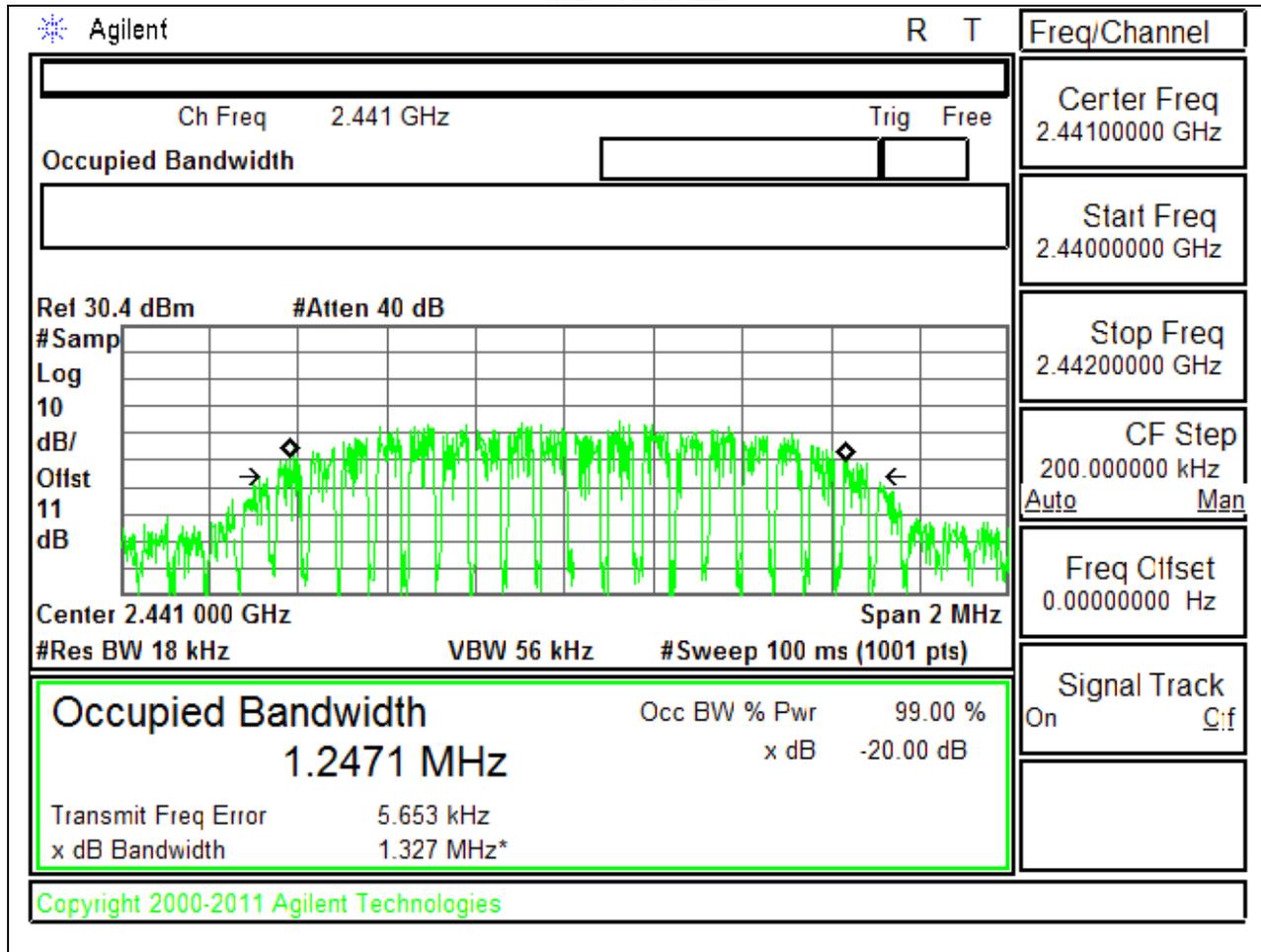


8PSK 99% BANDWIDTH

LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Agilent		R	T	Freq/Channel	
Ch Freq 2.48 GHz		Trig Free		Center Freq 2.48000000 GHz	
Occupied Bandwidth				Start Freq 2.47900000 GHz	
Ref 30.4 dBm #Atten 40 dB				Stop Freq 2.48100000 GHz	
				CF Step 200.000000 kHz Auto Man	
Center 2.480 000 GHz		Span 2 MHz		Freq Offset 0.00000000 Hz	
#Res BW 18 kHz		VBW 56 kHz		#Sweep 100 ms (1001 pts)	
Occupied Bandwidth 1.2205 MHz		Occ BW % Pwr		99.00 %	
Transmit Freq Error		5.080 kHz		x dB	
x dB Bandwidth		1.373 MHz*		-20.00 dB	
Signal Track		On		Cif	
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8.2. HOPPING FREQUENCY SEPARATION

LIMIT

FCC §15.247 (a) (1)

IC RSS-210 A8.1 (b)

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

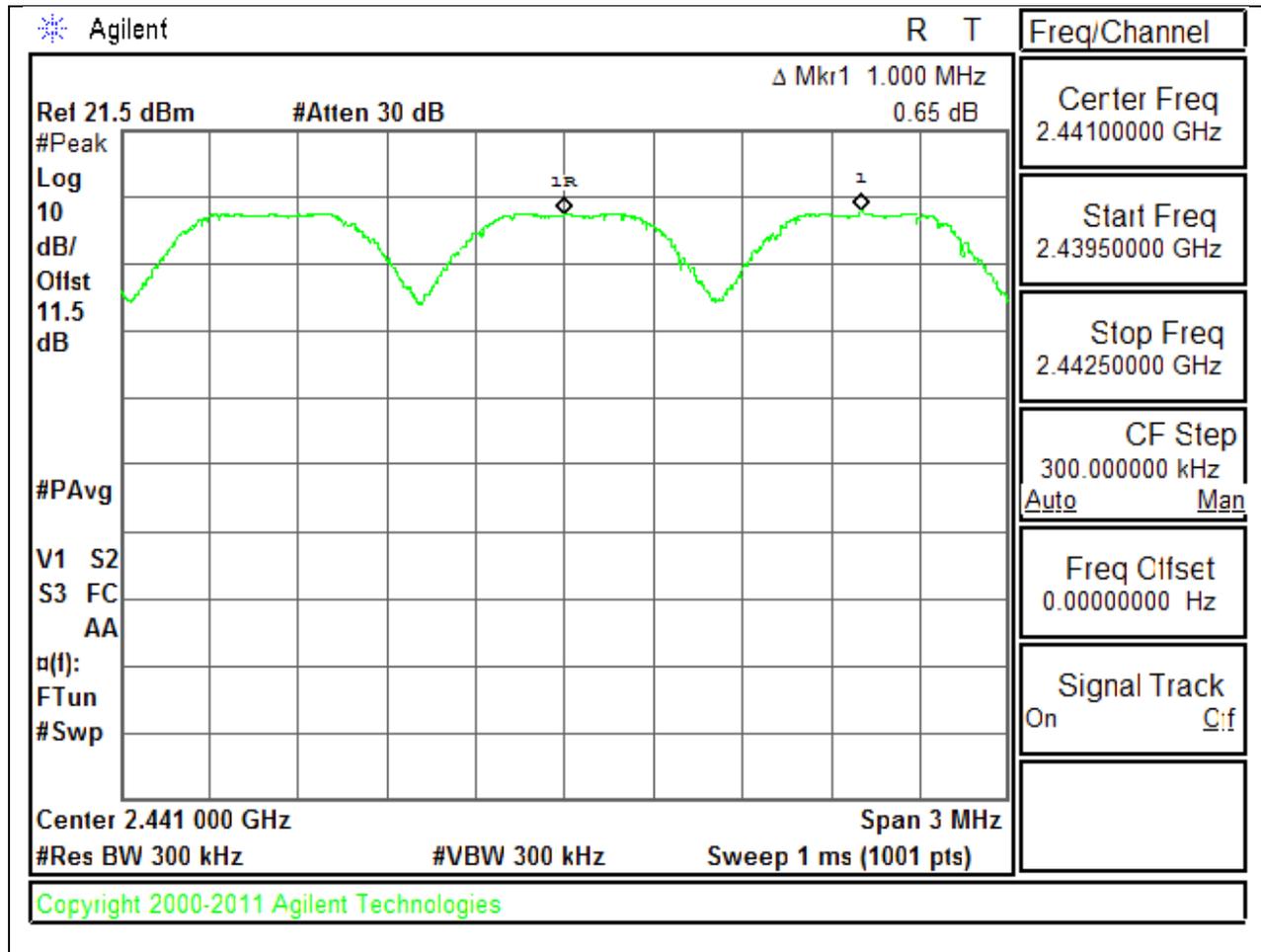
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than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

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a spectrum analyzer. The RBW is set to 300 kHz and the VBW is set to 300 kHz. The sweep time is coupled.

RESULTS

HOPPING FREQUENCY SEPARATION PLOT



**8.3. NUMBER OF HOPPING CHANNELS
LIMIT**

FCC §15.247 (a) (1) (iii)

IC RSS-210 A8.1 (d)

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

TEST PROCEDURE

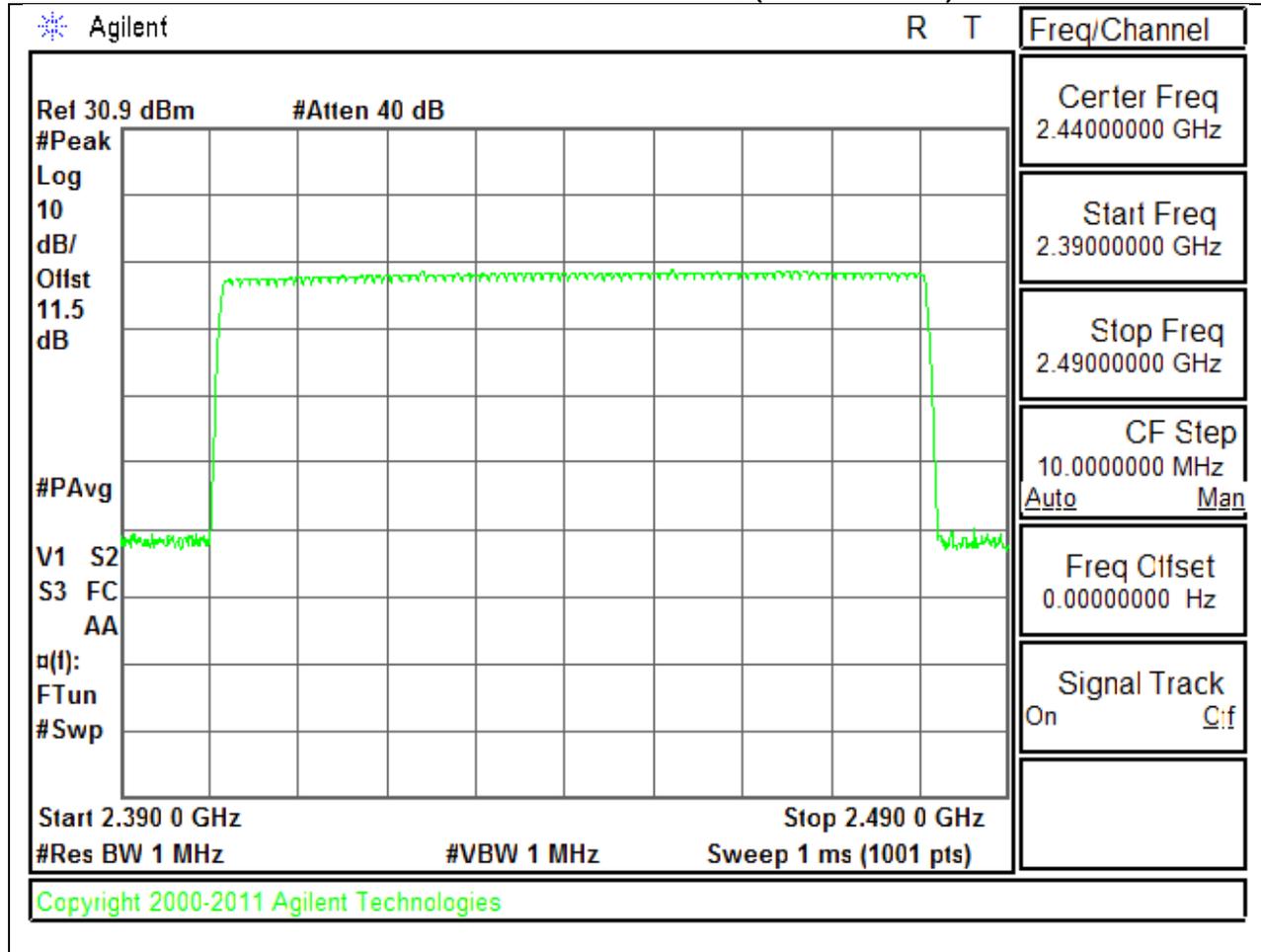
DA 00-705: The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

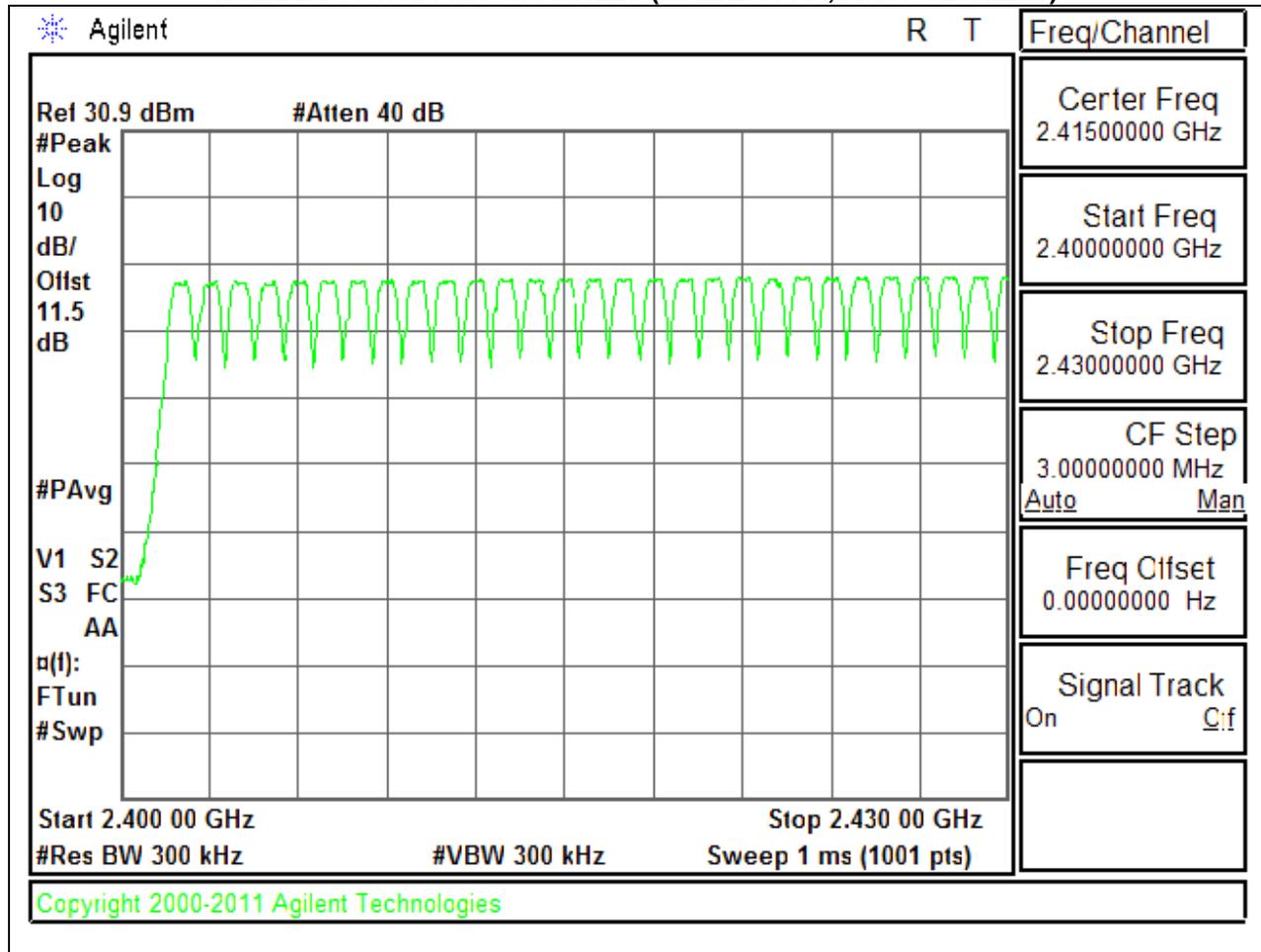
Normal Mode: 79 Channels observed.

NUMBER OF HOPPING CHANNELS PLOTS

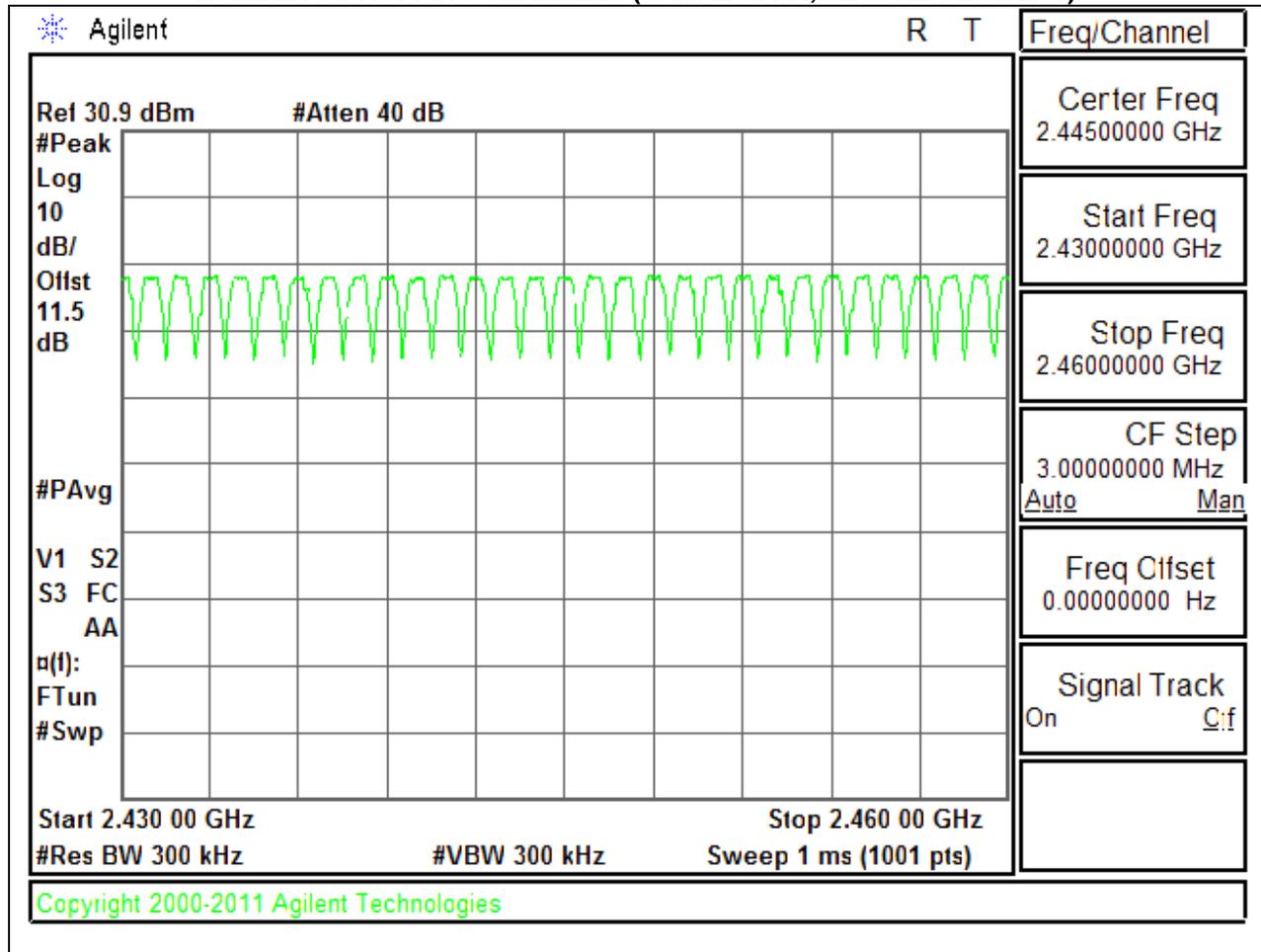
NUMBER OF HOPPING CHANNELS (100 MHZ SPAN)



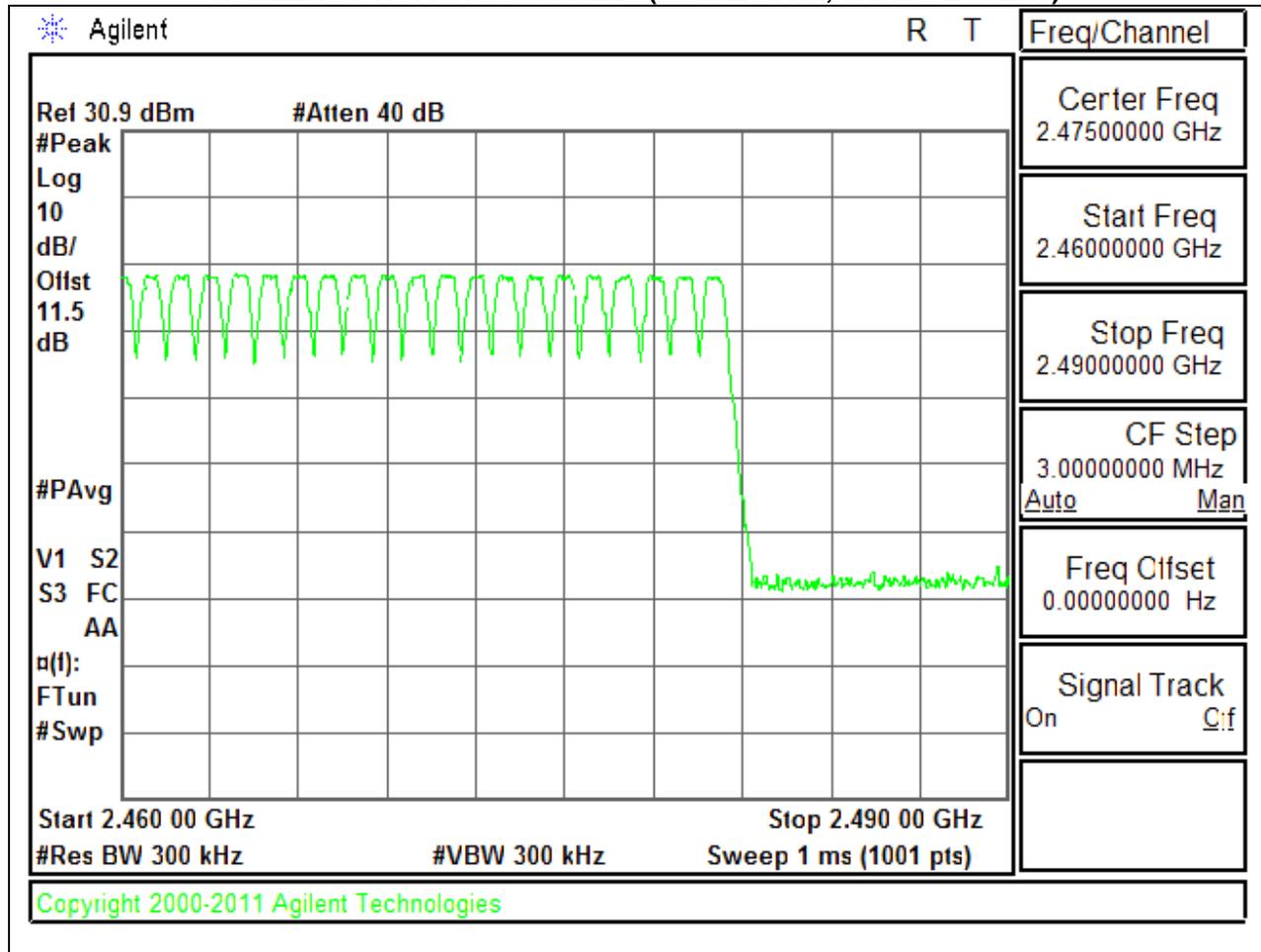
NUMBER OF HOPPING CHANNELS (30 MHZ SPAN, FIRST SEGMENT)



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



NUMBER OF HOPPING CHANNELS (30 MHZ SPAN, THIRD SEGMENT)



8.4. AVERAGE TIME OF OCCUPANCY

LIMIT

FCC §15.247 (a) (1) (iii)

IC RSS-210 A8.1 (d)

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

TEST PROCEDURE

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

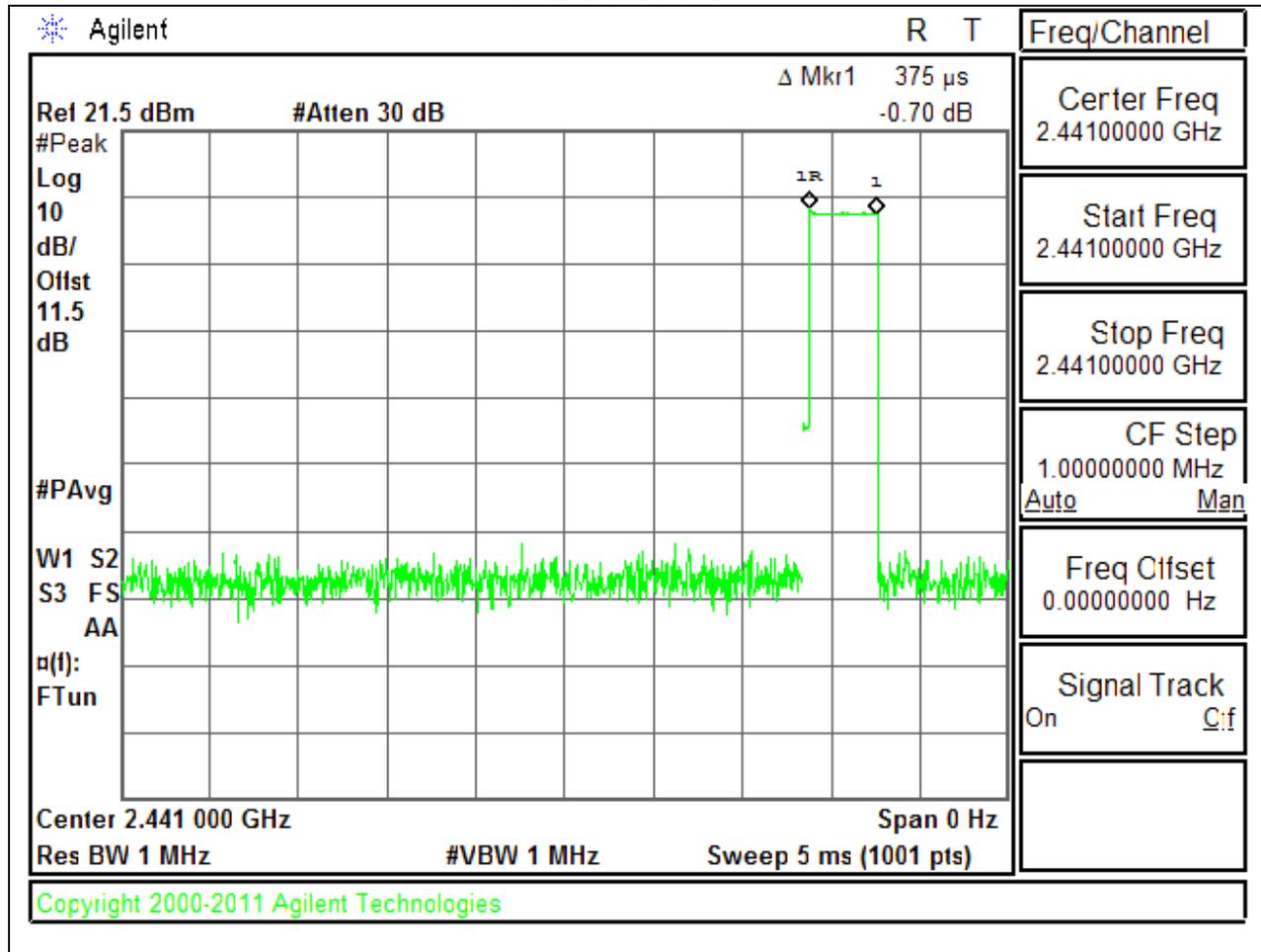
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{ pulse width}$.

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

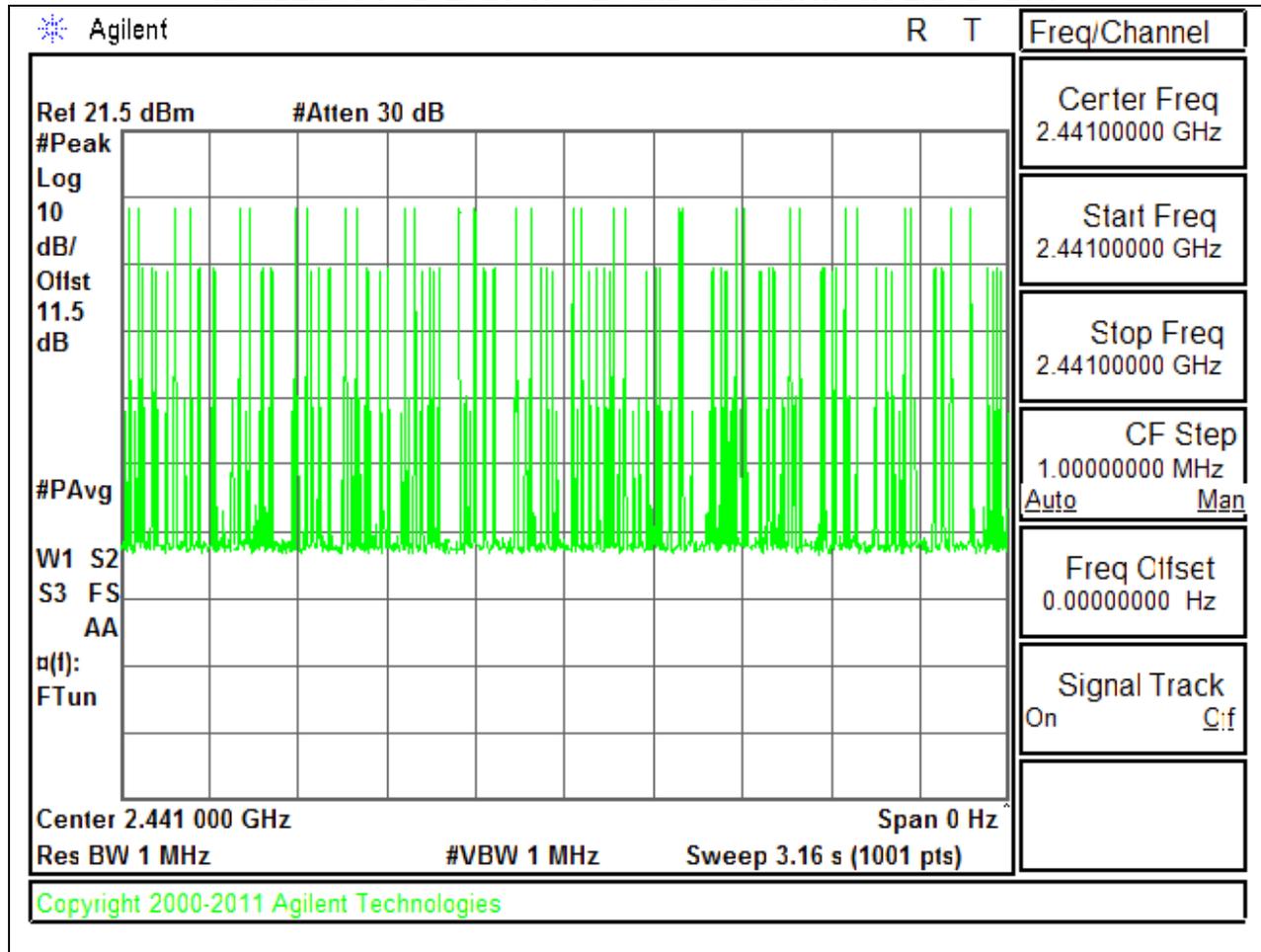
RESULTS

DH Packet	Pulse Width (msec)	Number of Pulses in 3.16 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
GFSK Normal Mode					
DH1	0.375	31	0.1163	0.4	-0.284
DH3	1.622	18	0.2920	0.4	-0.108
DH5	2.876	10	0.2876	0.4	-0.112
GFSK AFH Mode					
DH Packet	Pulse Width (msec)	Number of Pulses in 0.8 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
DH1	0.375	7.75	0.0291	0.4	-0.3709
DH3	1.622	4.50	0.0730	0.4	-0.3270
DH5	2.876	2.50	0.0719	0.4	-0.3281

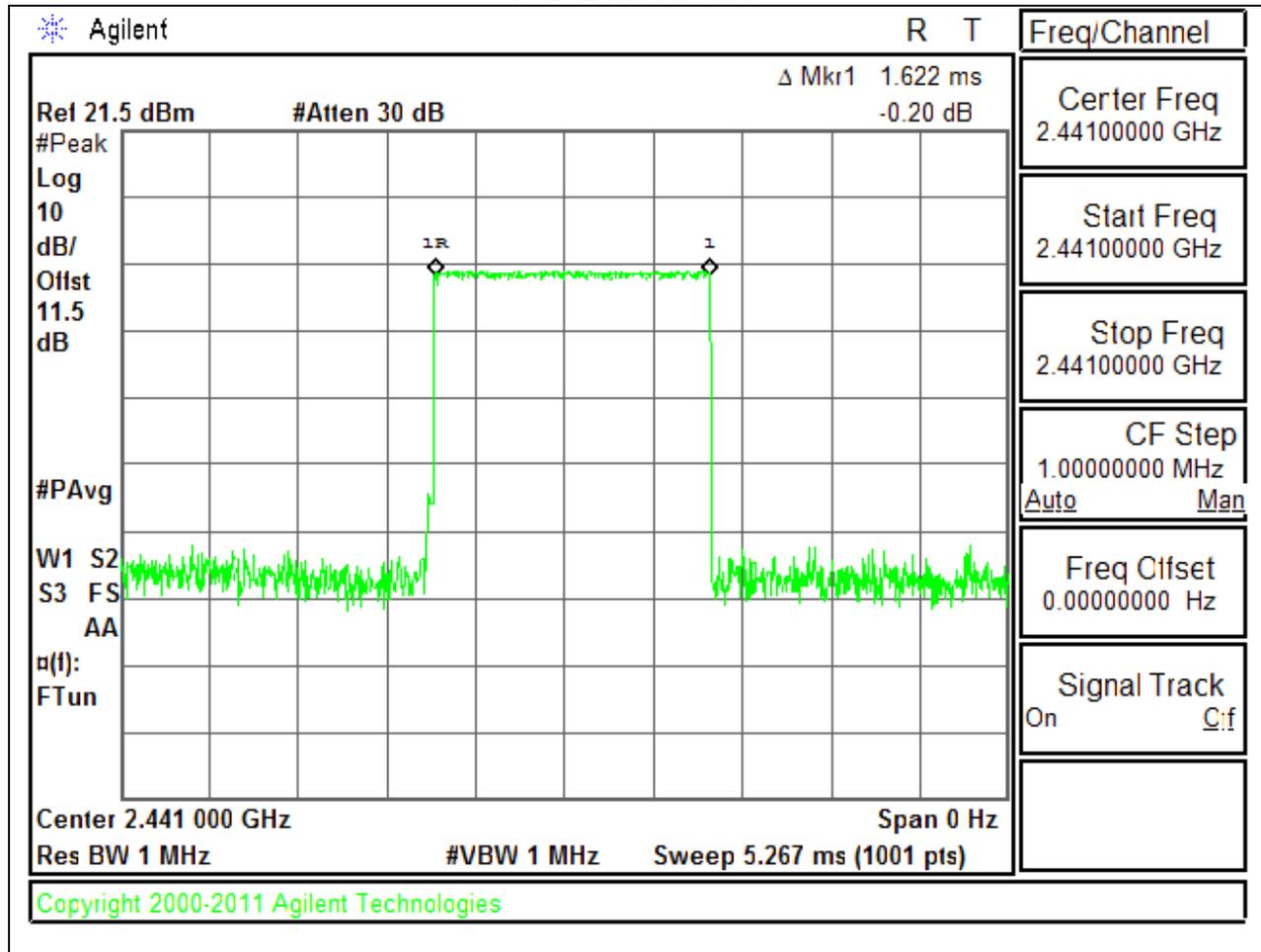
PULSE WIDTH - DH1



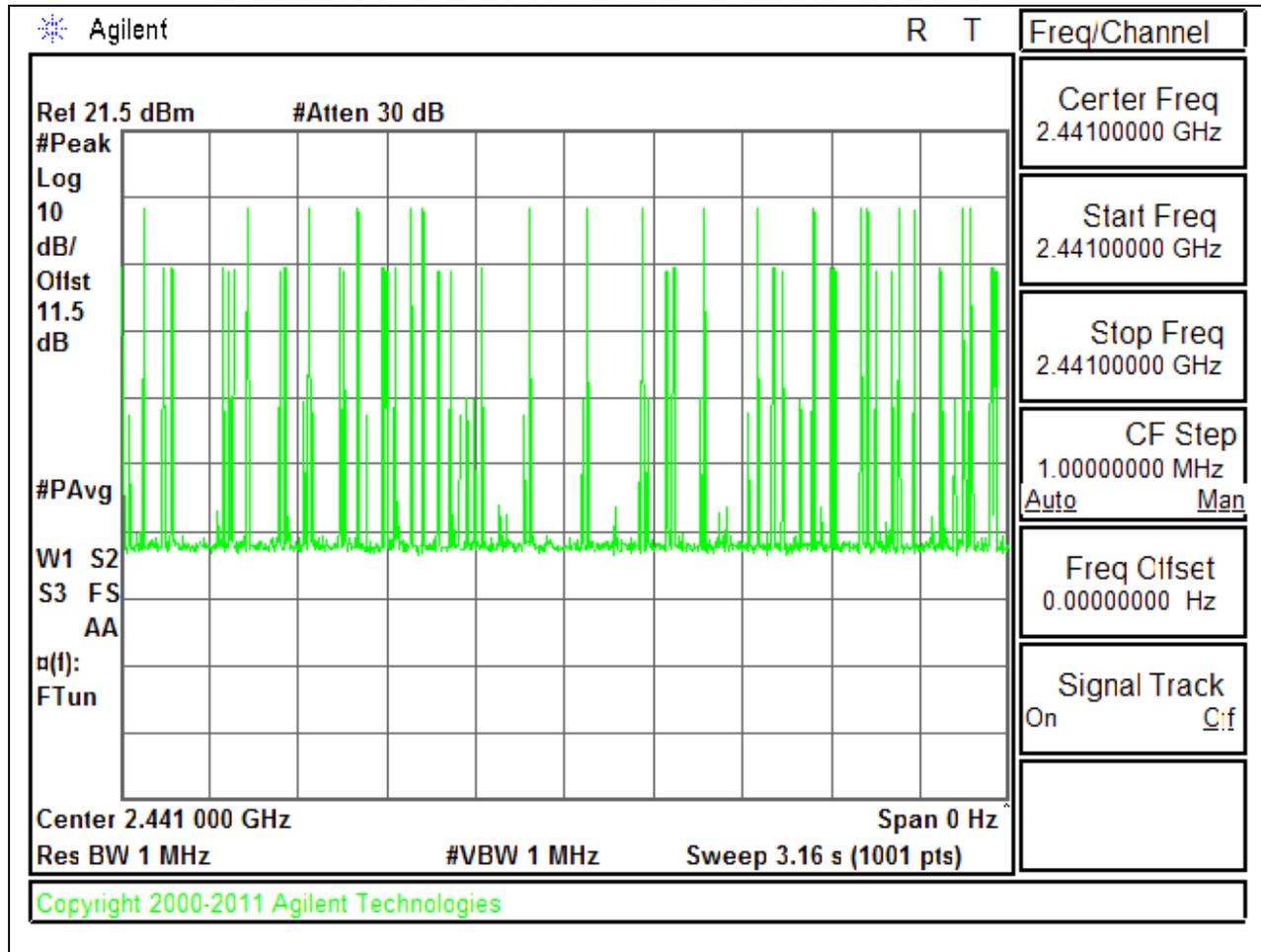
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH1



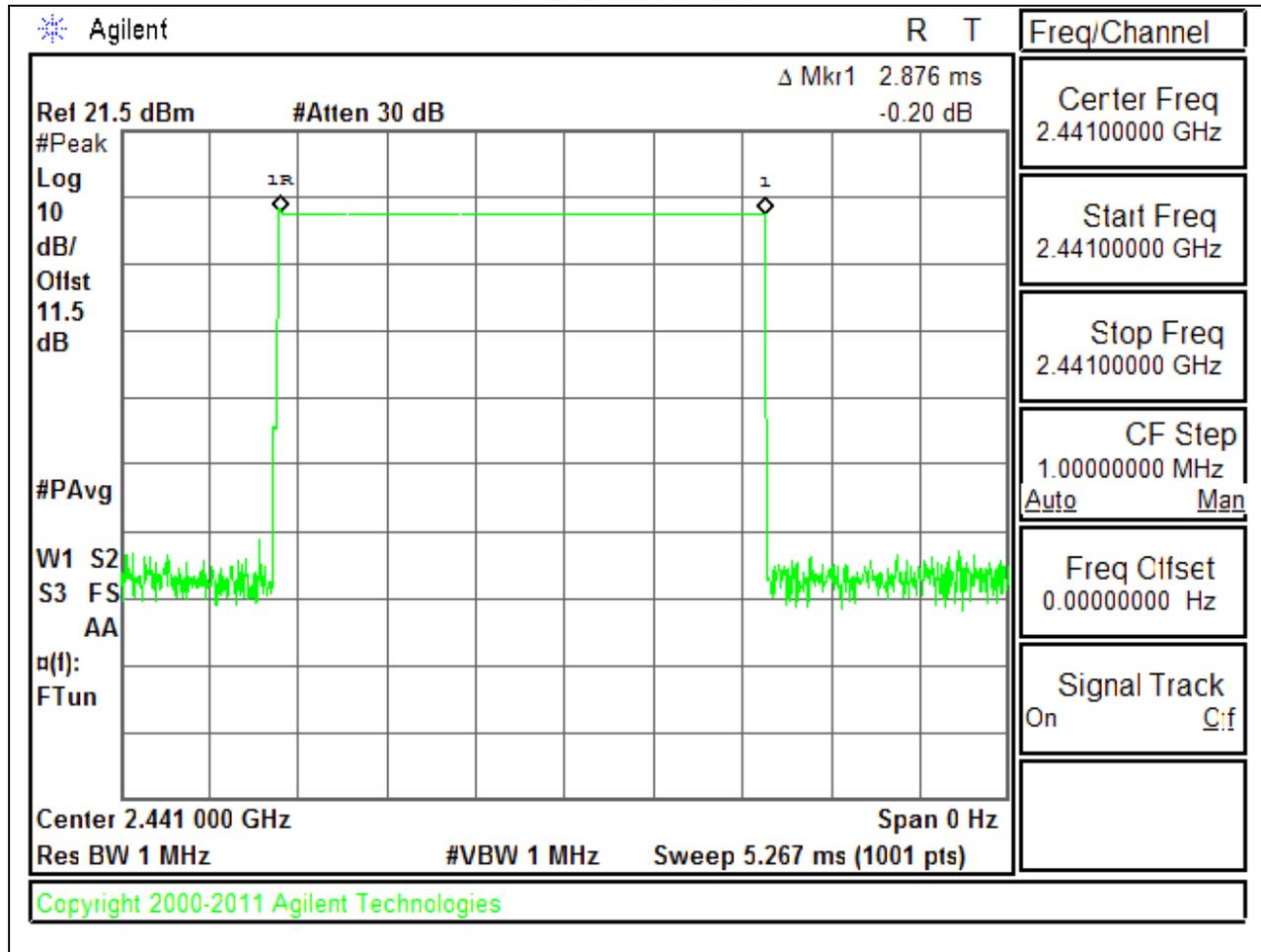
PULSE WIDTH - DH3



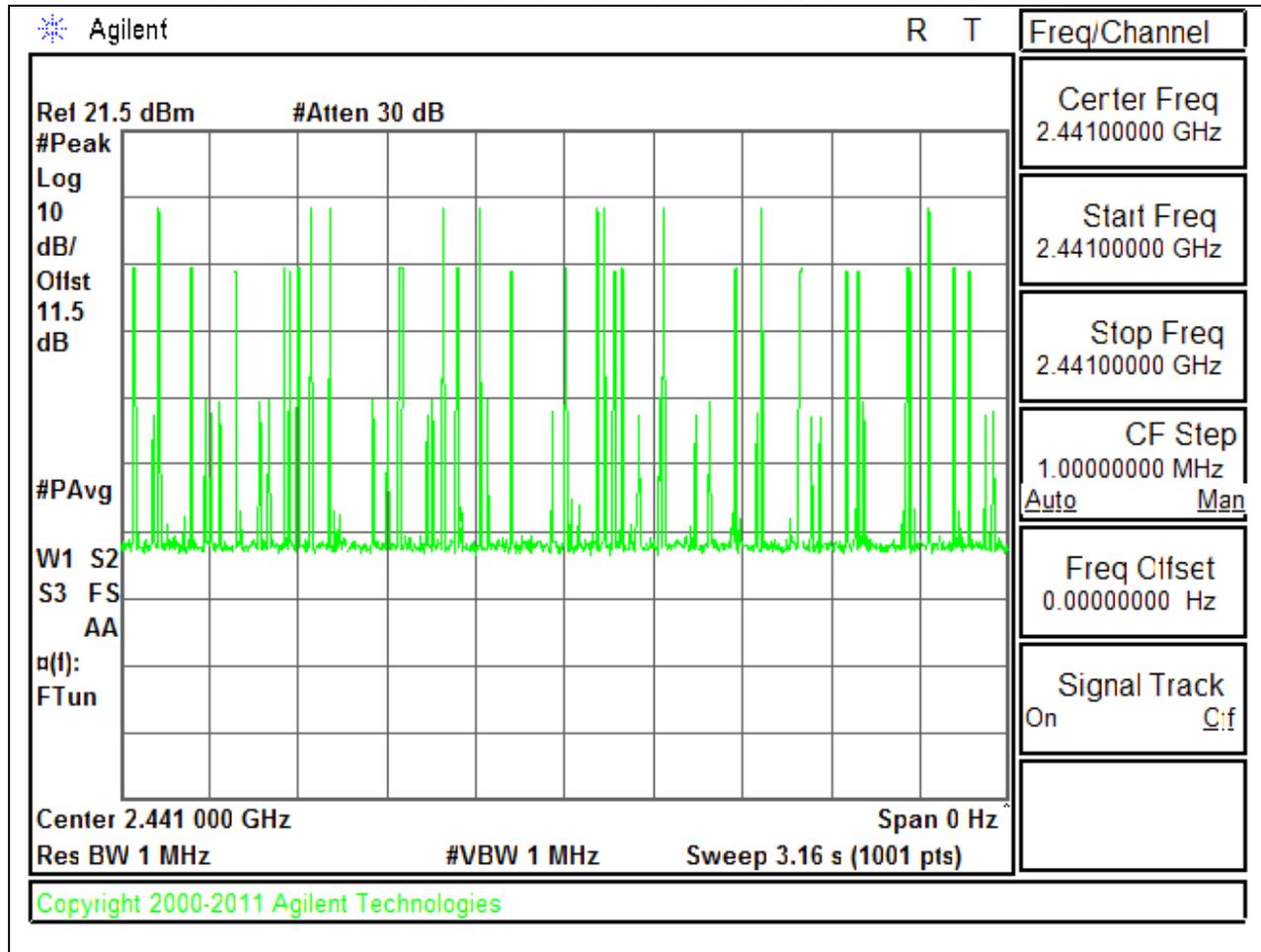
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH3



PULSE WIDTH - DH5



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH5



8.5. OUTPUT POWER

LIMIT

§15.247 (b) (1)

RSS-210 Issue 8 Clause A8.4

The maximum antenna gain is less than 6 dBi, therefore the limit is 21dBm.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a spectrum analyzer the analyzer bandwidth is set to a value greater than the 20 dB bandwidth of the EUT.

RESULTS

8.5.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	8.66	21	-12.34
Middle	2441	9.75	21	-11.25
High	2480	9.75	21	-11.25
Worst		9.75		-11.25

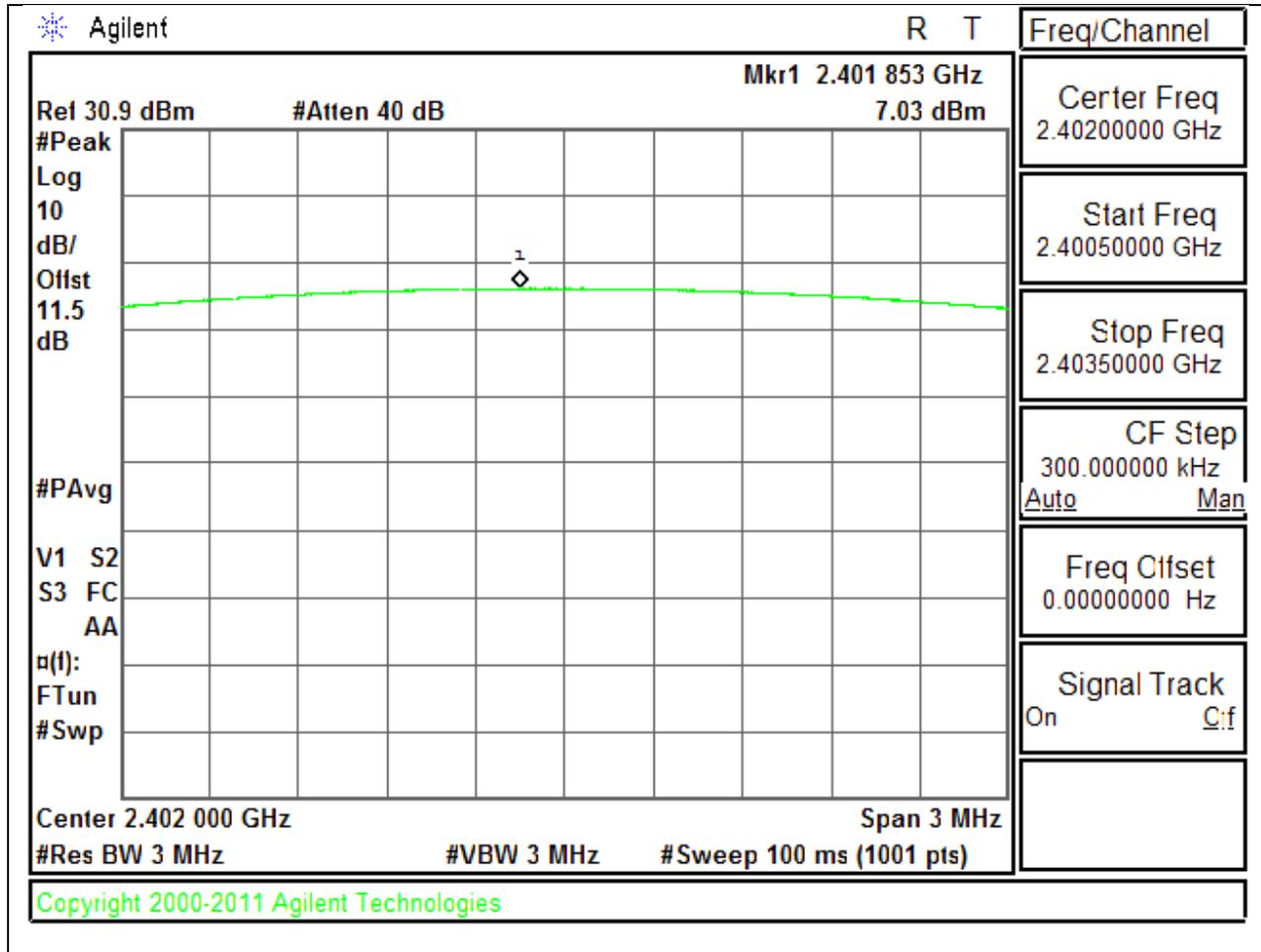
8.5.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	7.03	21	-13.97
Middle	2441	7.75	21	-13.25
High	2480	7.53	21	-13.47
Worst		7.75		-13.25

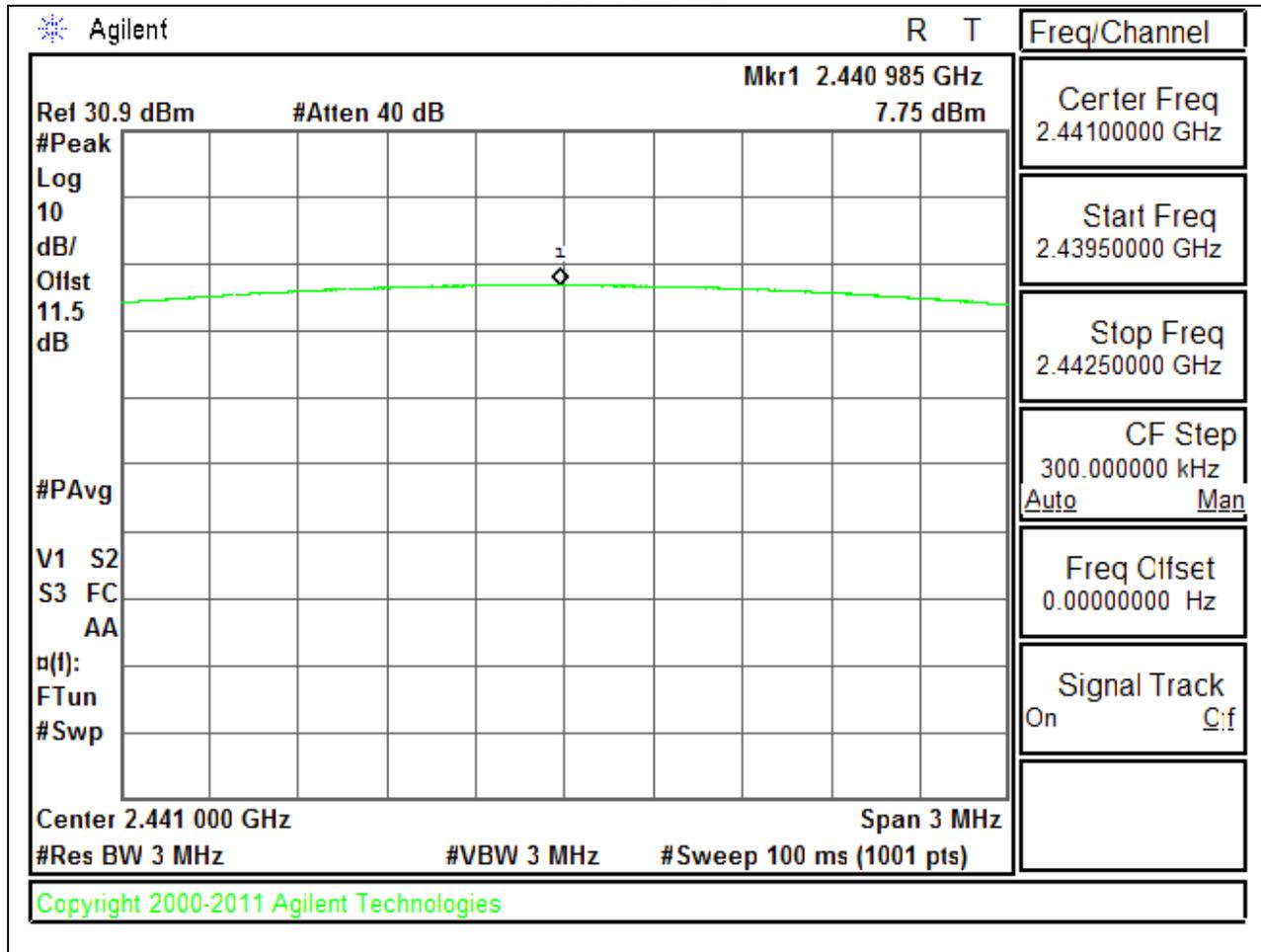
8.5.3. OUTPUT POWER PLOTS

8PSK OUTPUT POWER

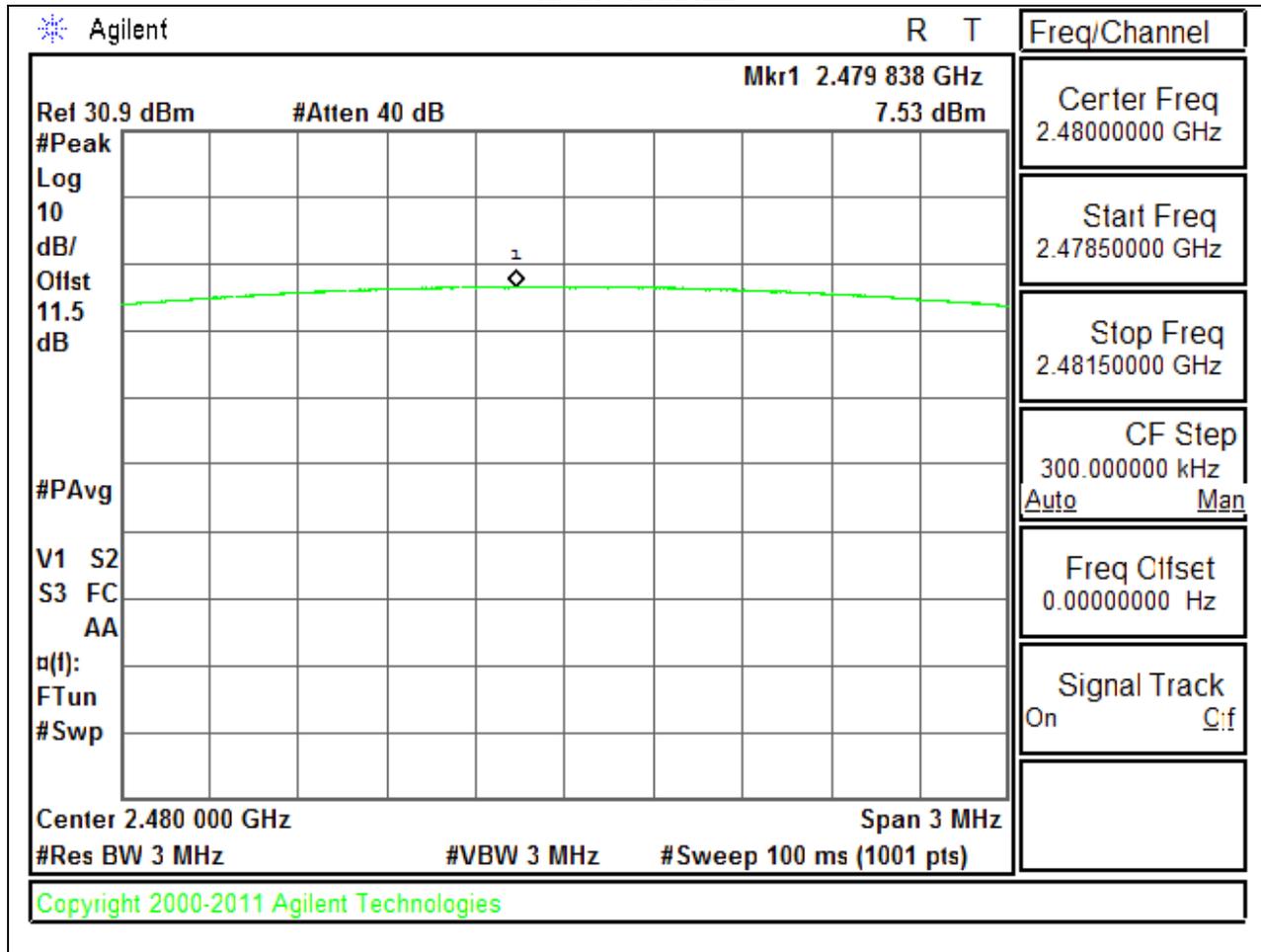
LOW CHANNEL



MID CHANNEL

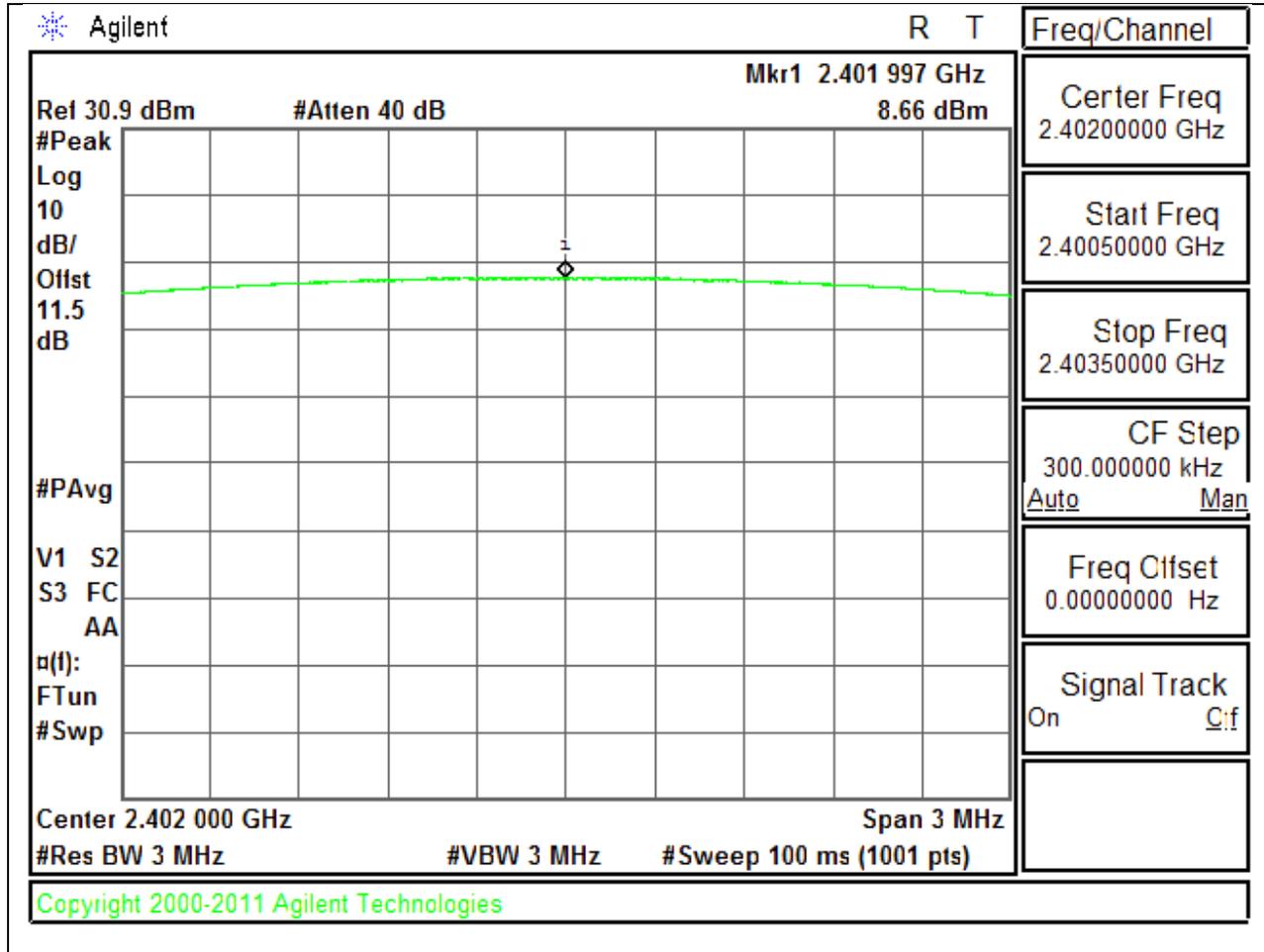


HIGH CHANNEL

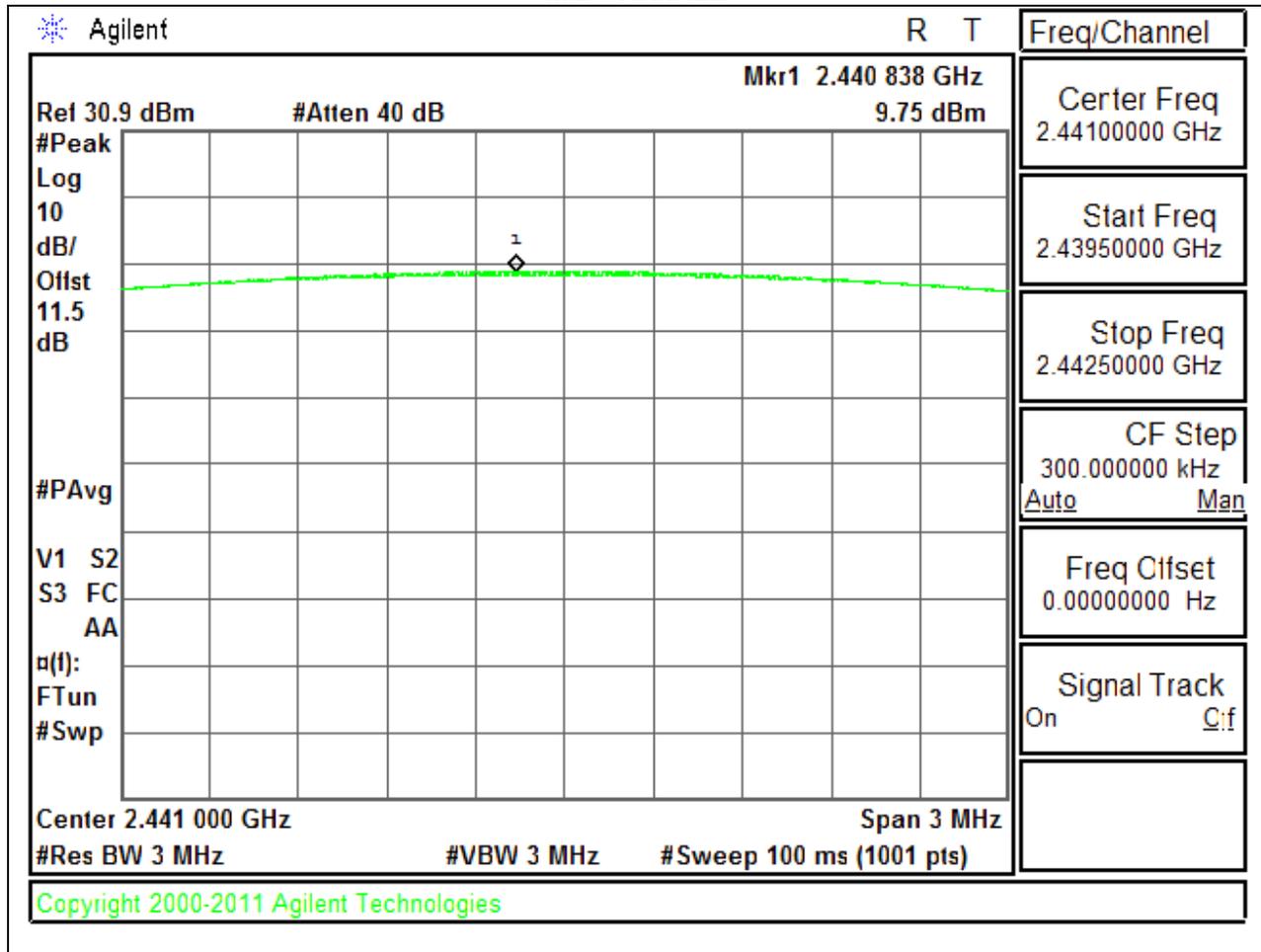


GFSK OUTPUT POWER

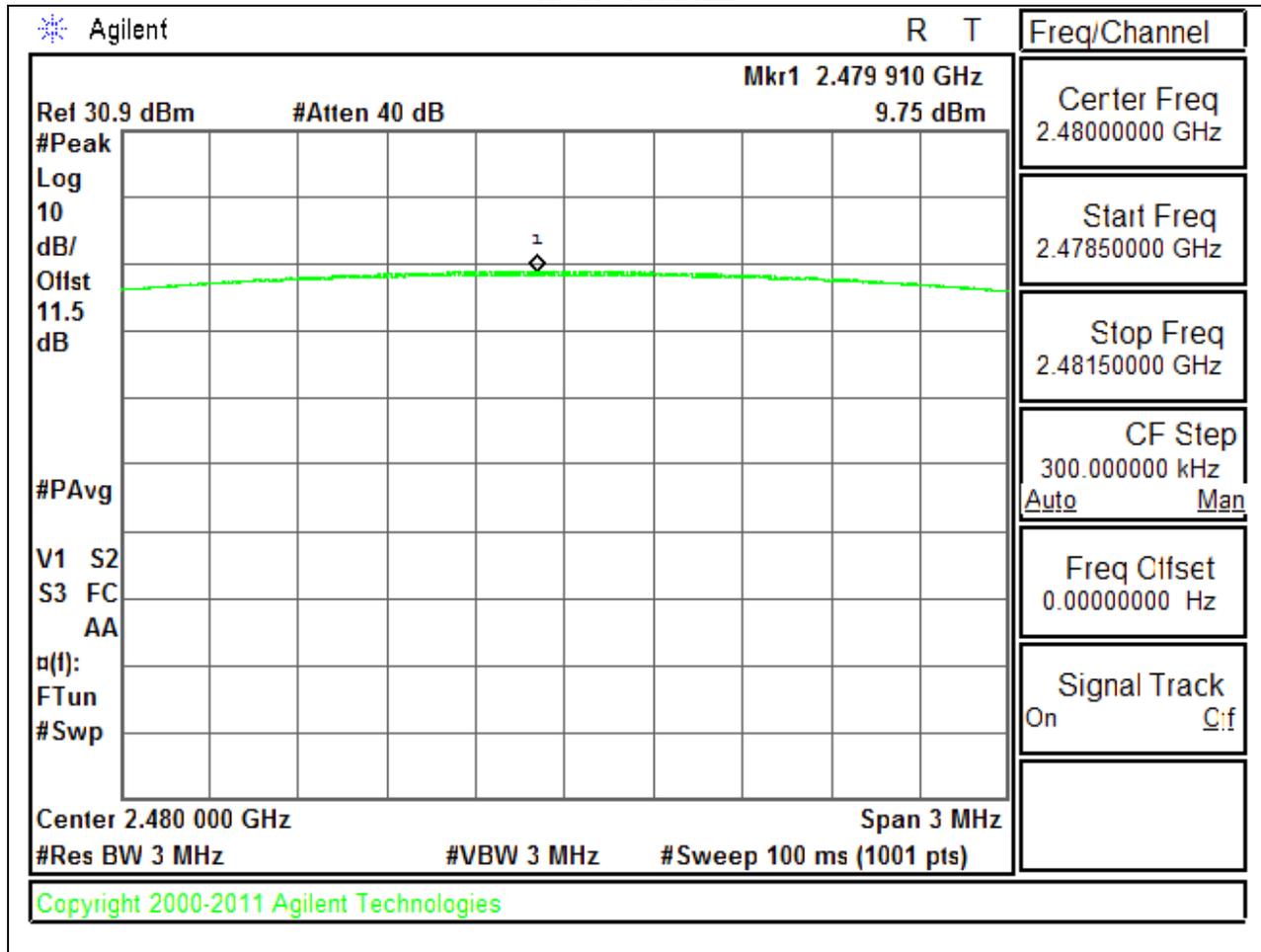
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.1. AVERAGE POWER

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.7 dB (including 10 dB pad and 0.7 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

8.1.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	8.1
Middle	2441	9.0
High	2480	9.1
Worst		9.1

8.1.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	2.4
Middle	2441	5.9
High	2480	7.5
Worst		7.5

8.2. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

Limit = -20 dBc

TEST PROCEDURE

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

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

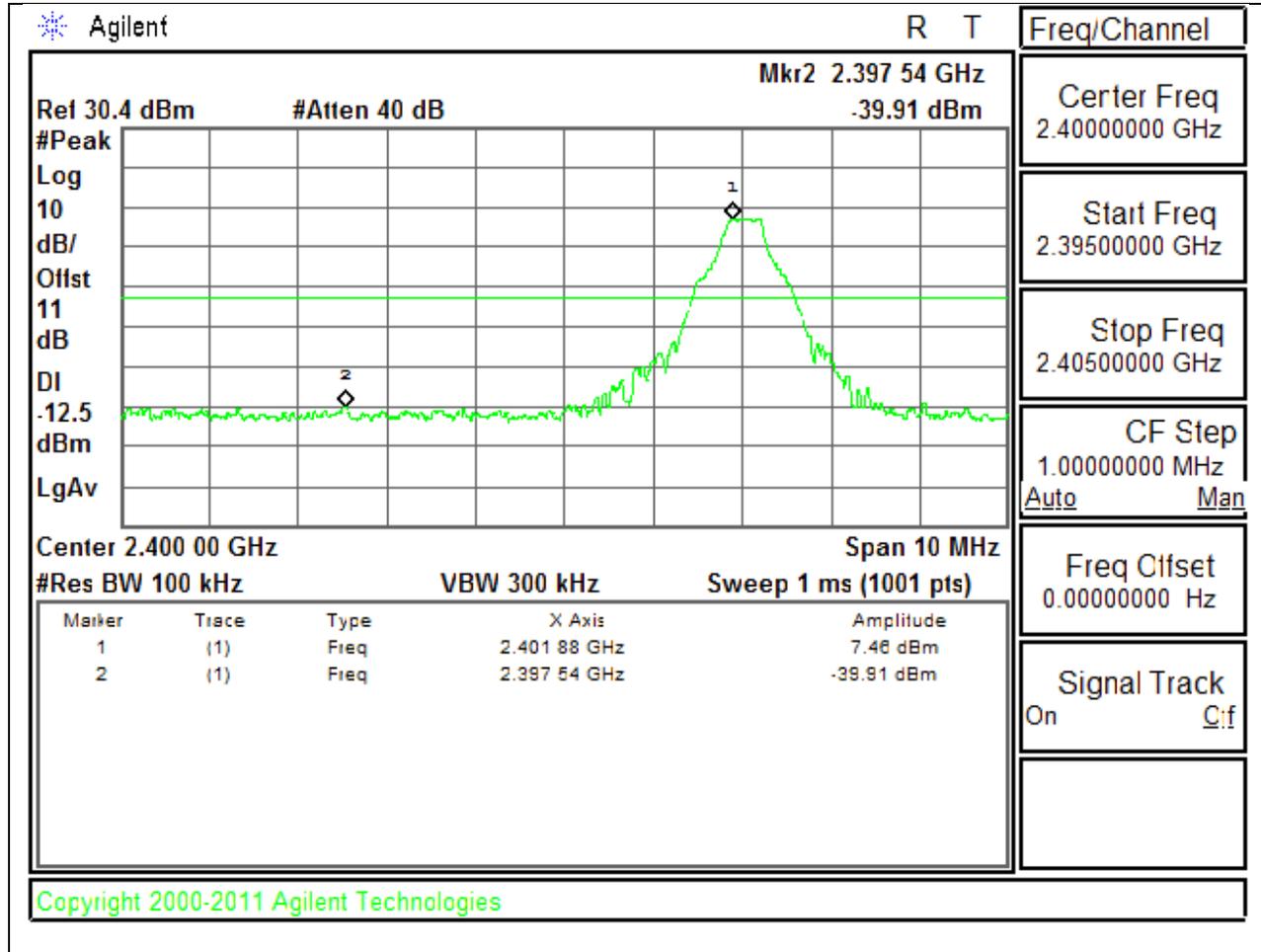
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

RESULTS

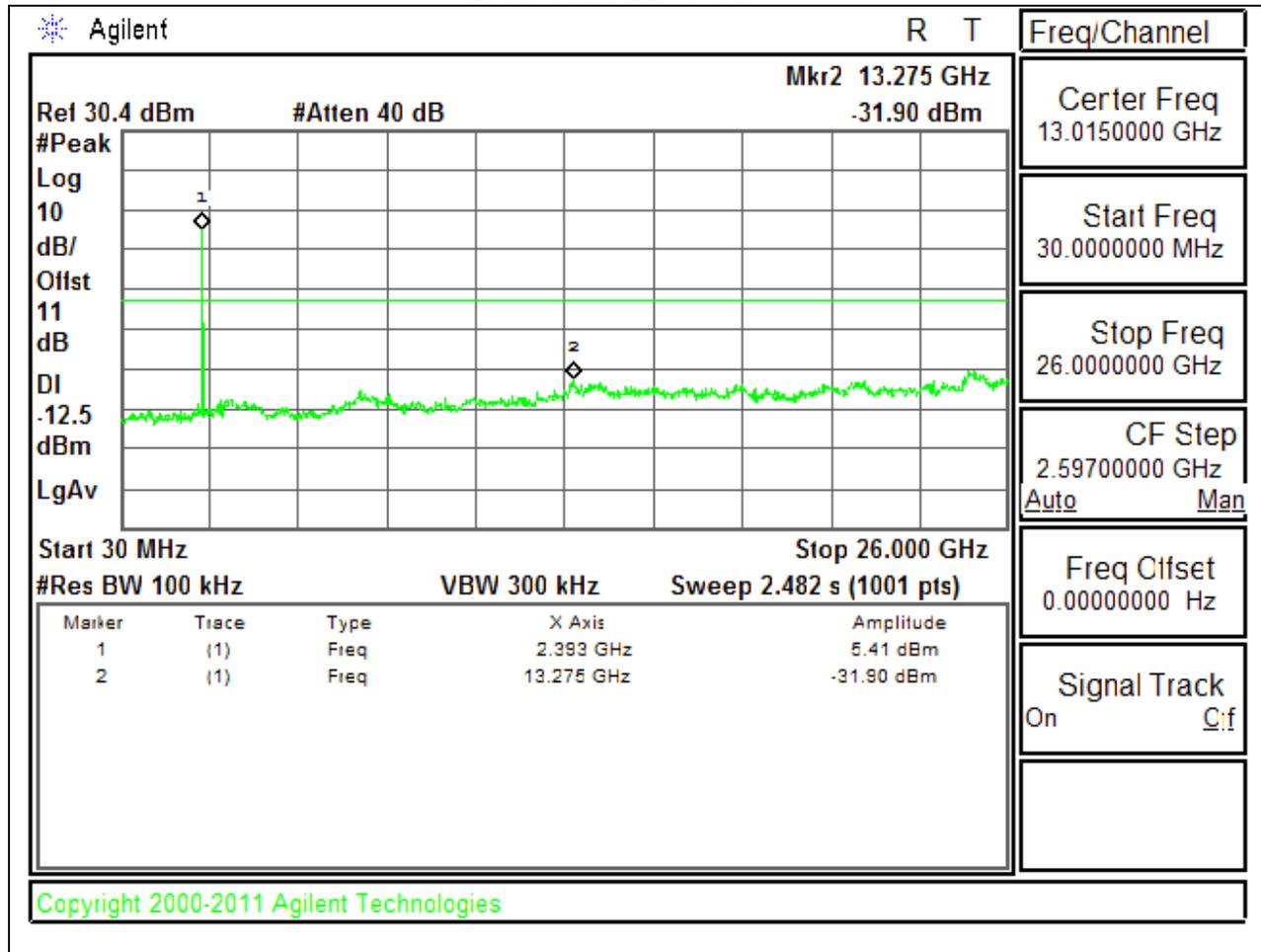
8.2.1. BASIC DATA RATE GFSK MODULATION

SPURIOUS EMISSIONS, LOW CHANNEL

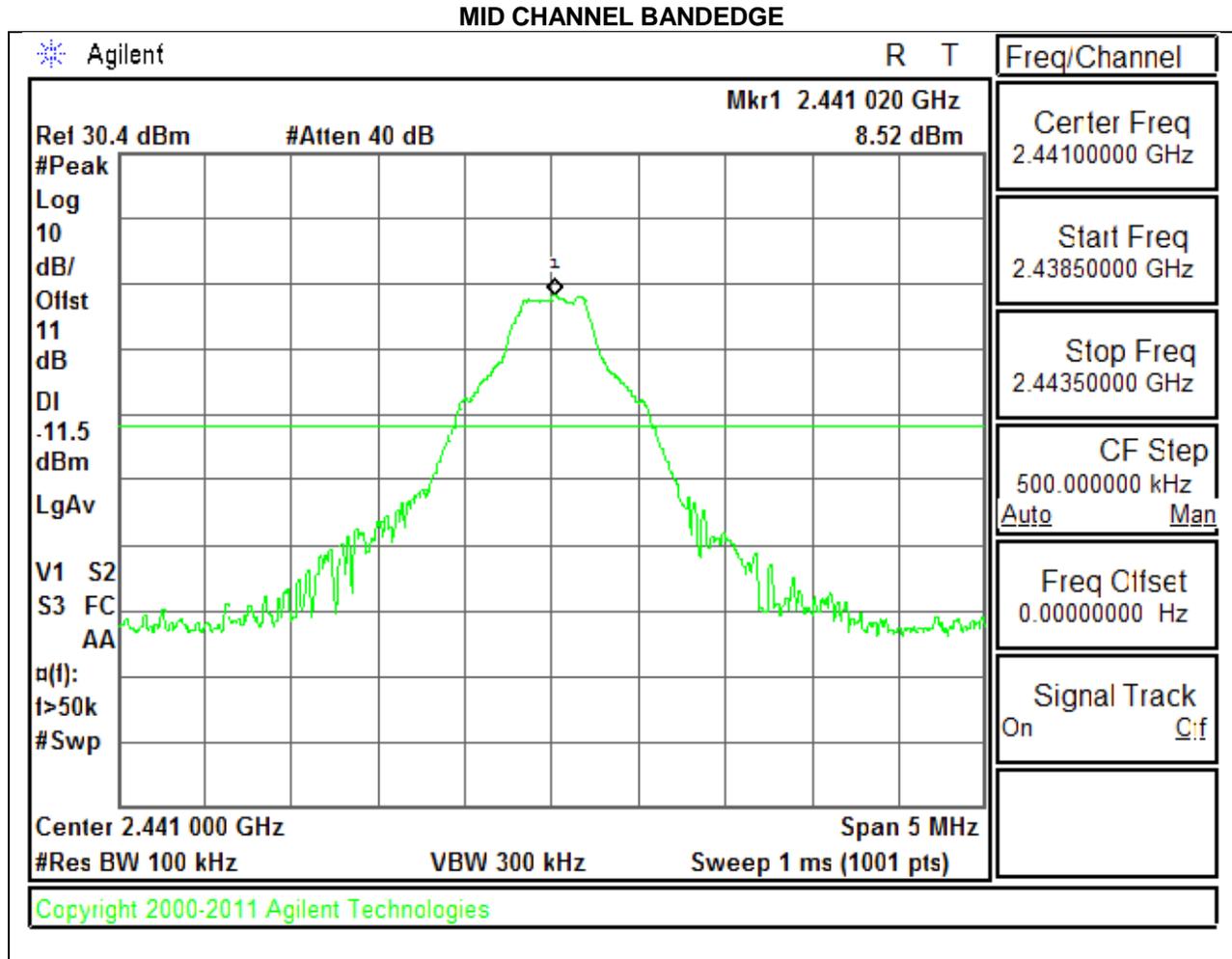
LOW CHANNEL BANDEDGE



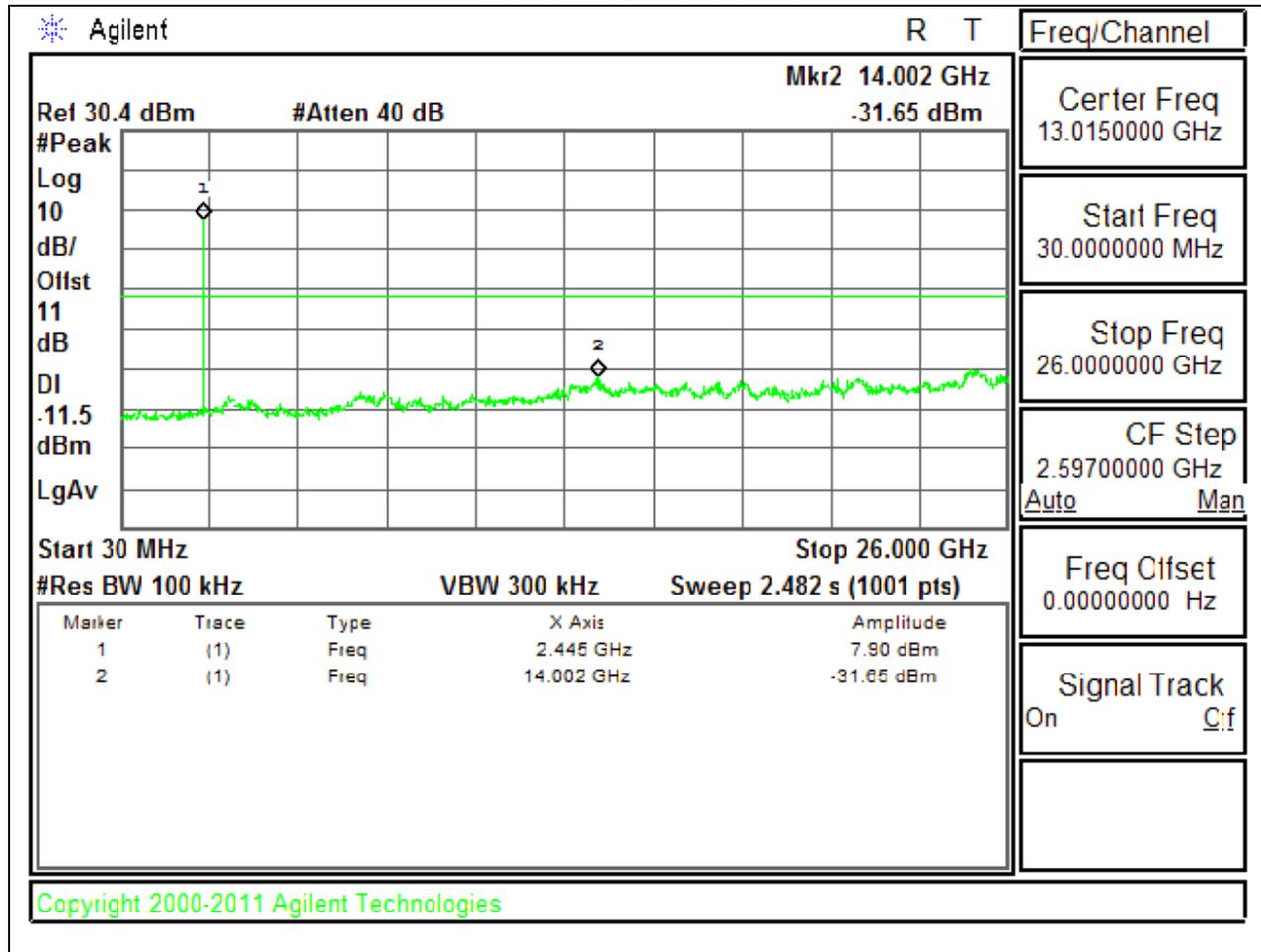
LOW CHANNEL SPURIOUS



SPURIOUS EMISSIONS, MID CHANNEL

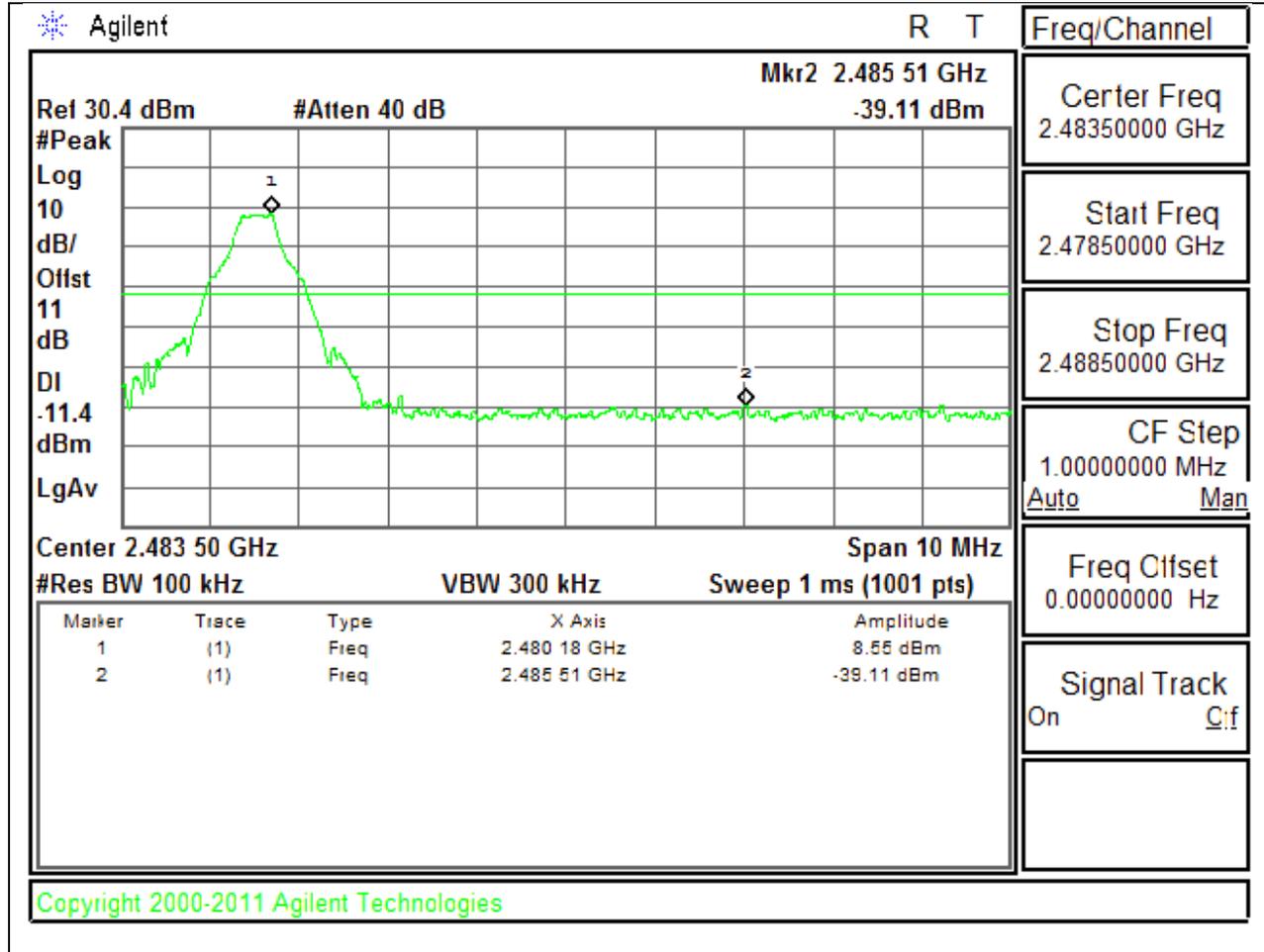


MID CHANNEL SPURIOUS

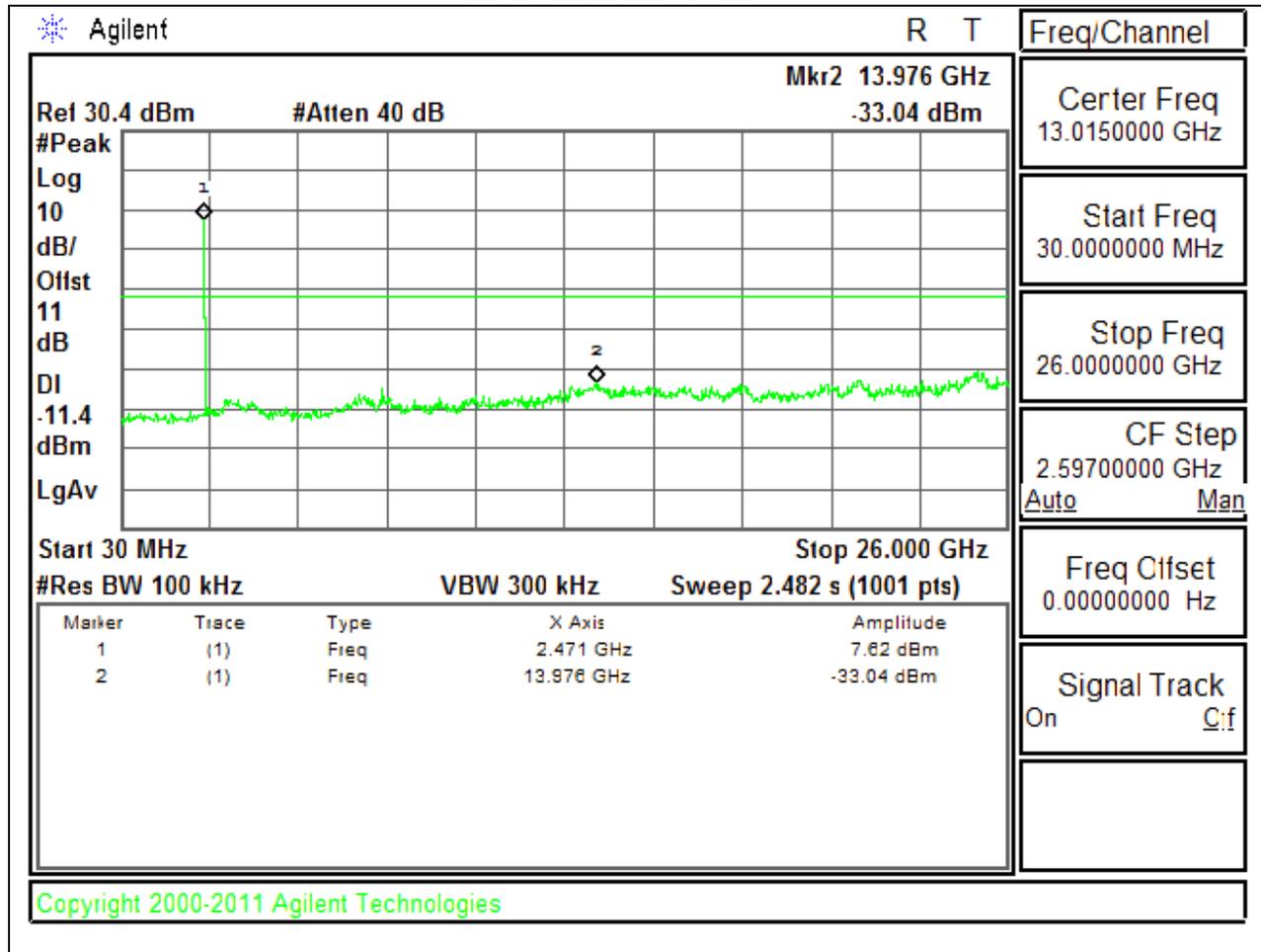


SPURIOUS EMISSIONS, HIGH CHANNEL

HIGH CHANNEL BANDEDGE

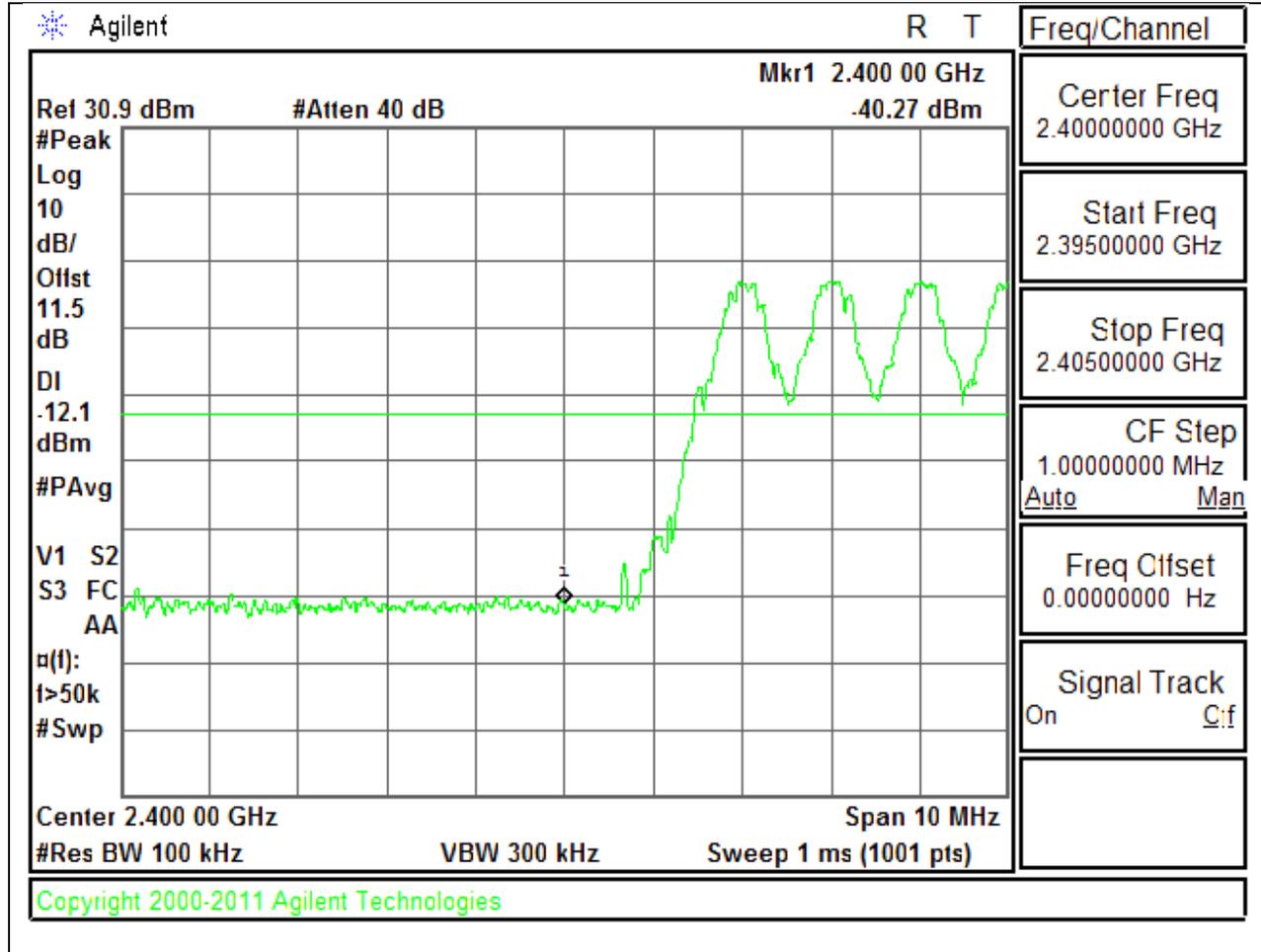


HIGH CHANNEL SPURIOUS

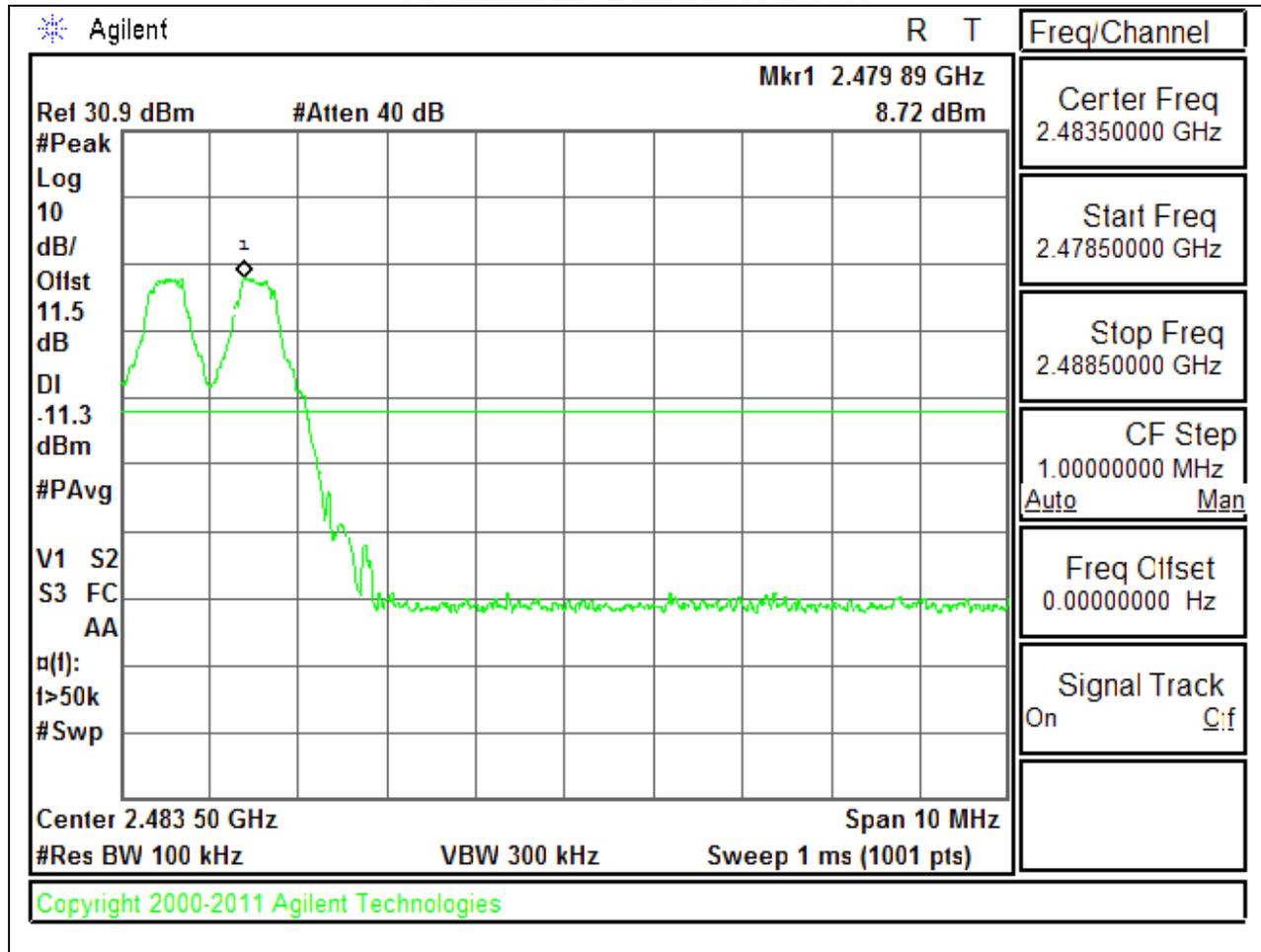


SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW BANDEDGE WITH HOPPING ON

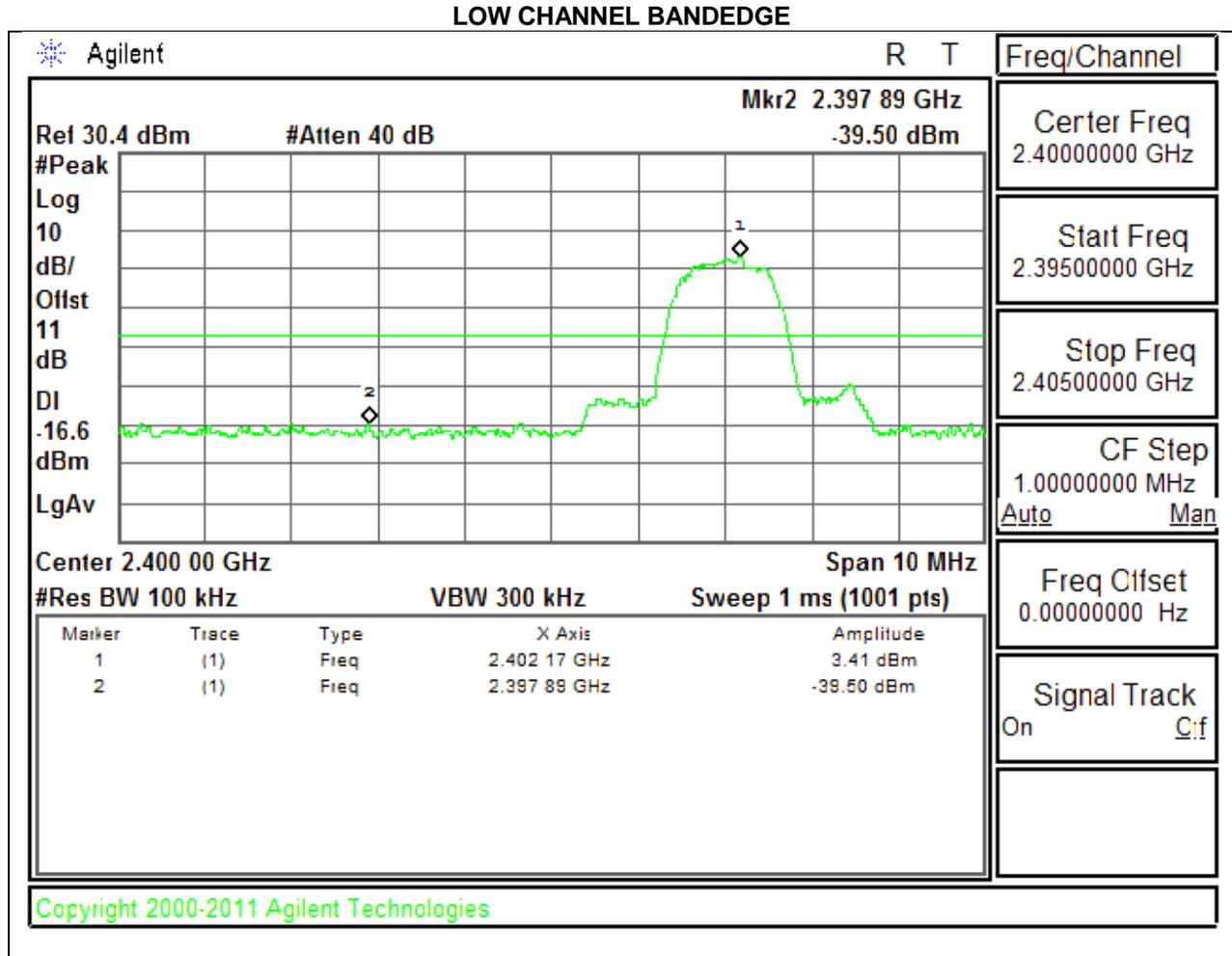


HIGH BANDEDGE WITH HOPPING ON

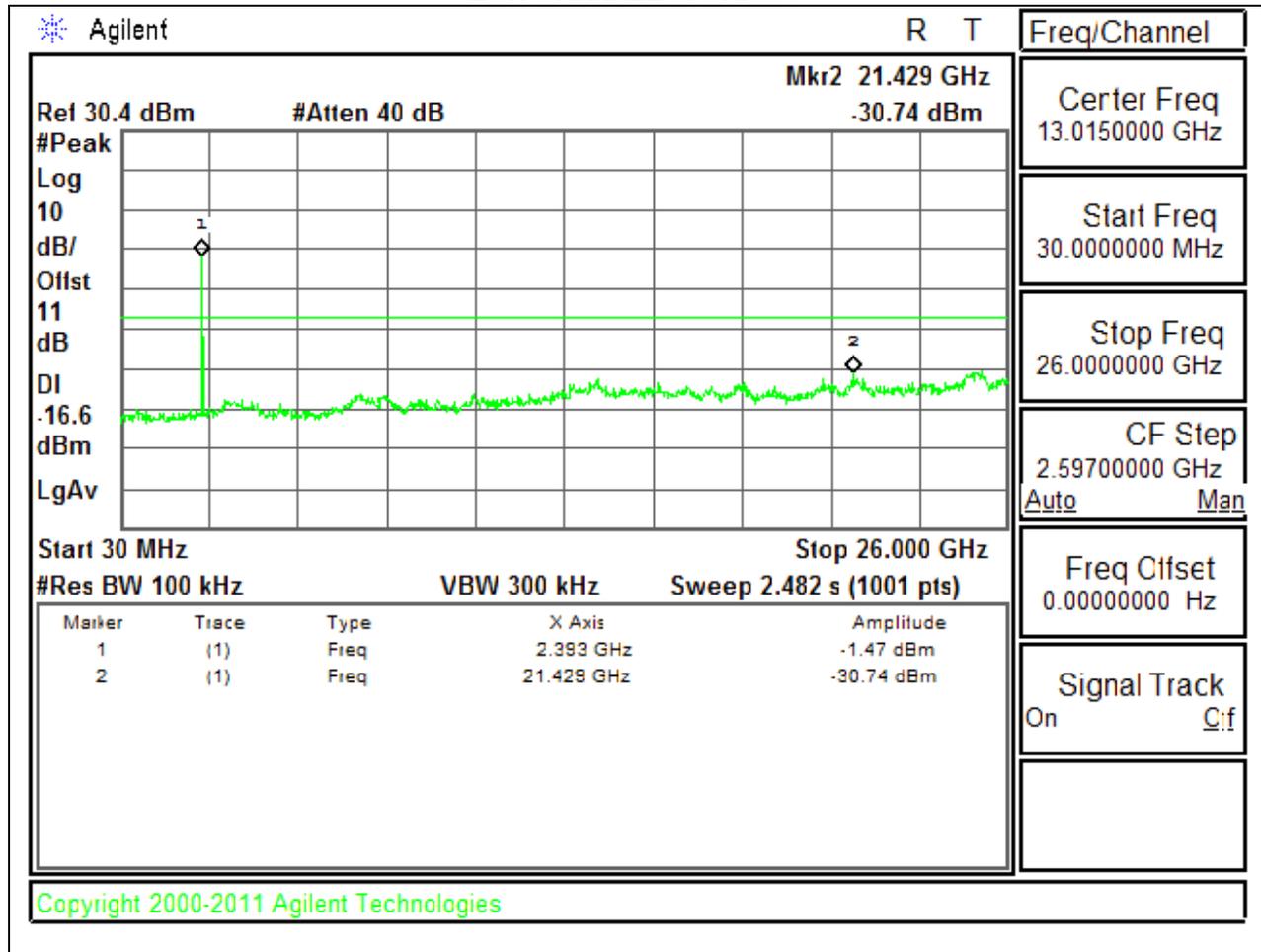


8.2.2. ENHANCED DATA RATE 8PSK MODULATION

SPURIOUS EMISSIONS, LOW CHANNEL

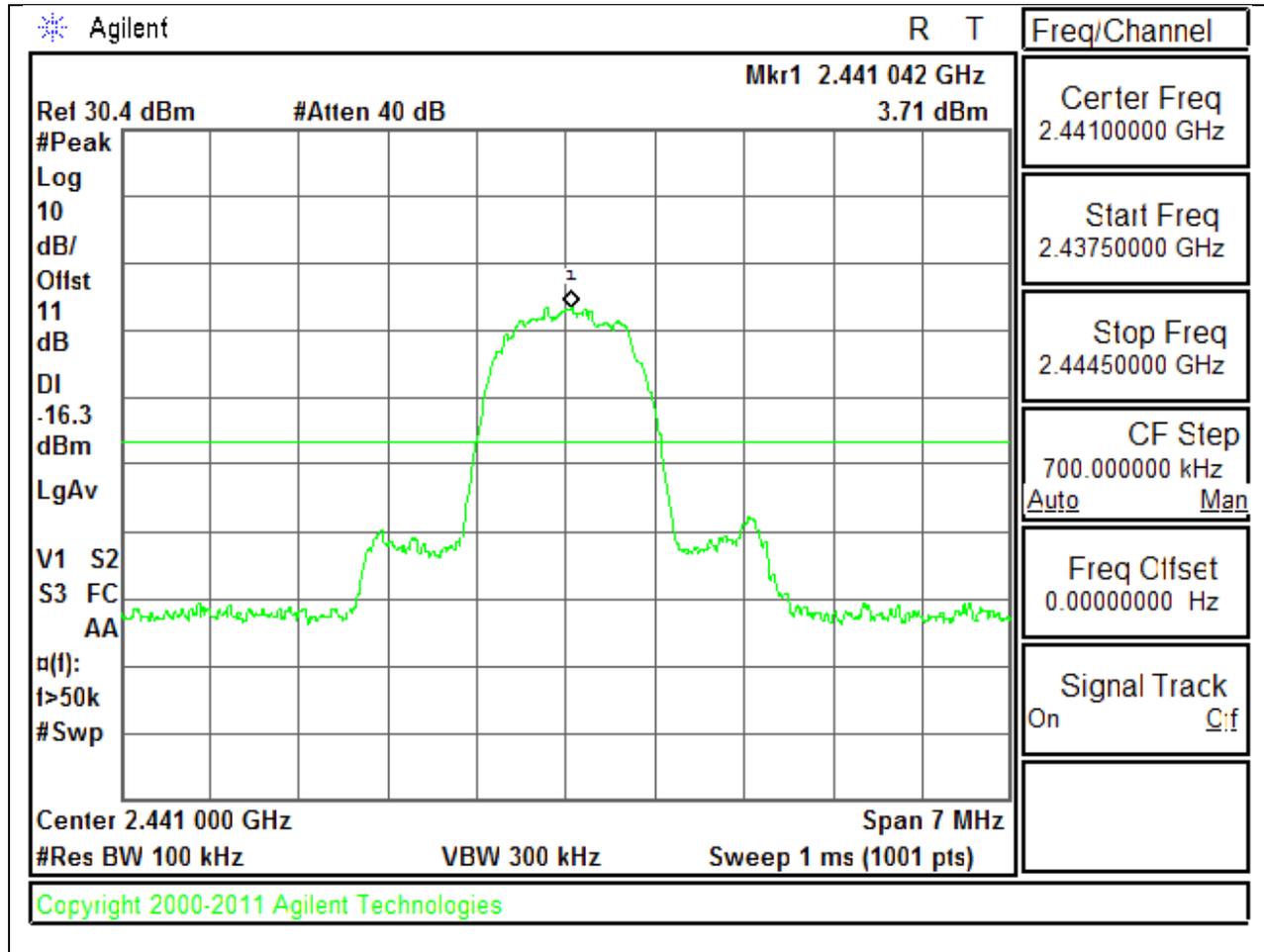


LOW CHANNEL SPURIOUS

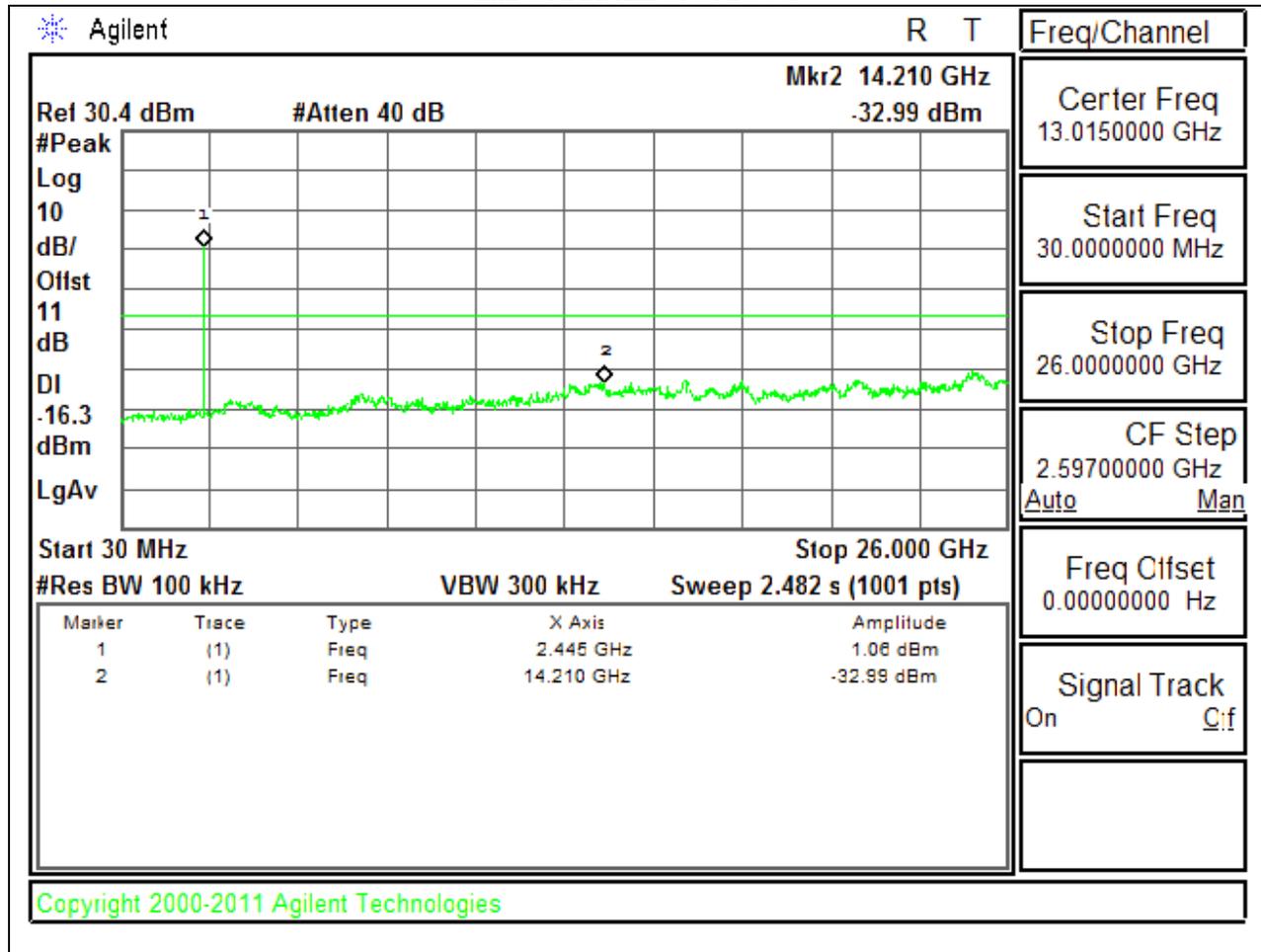


SPURIOUS EMISSIONS, MID CHANNEL

MID CHANNEL BANDEDGE

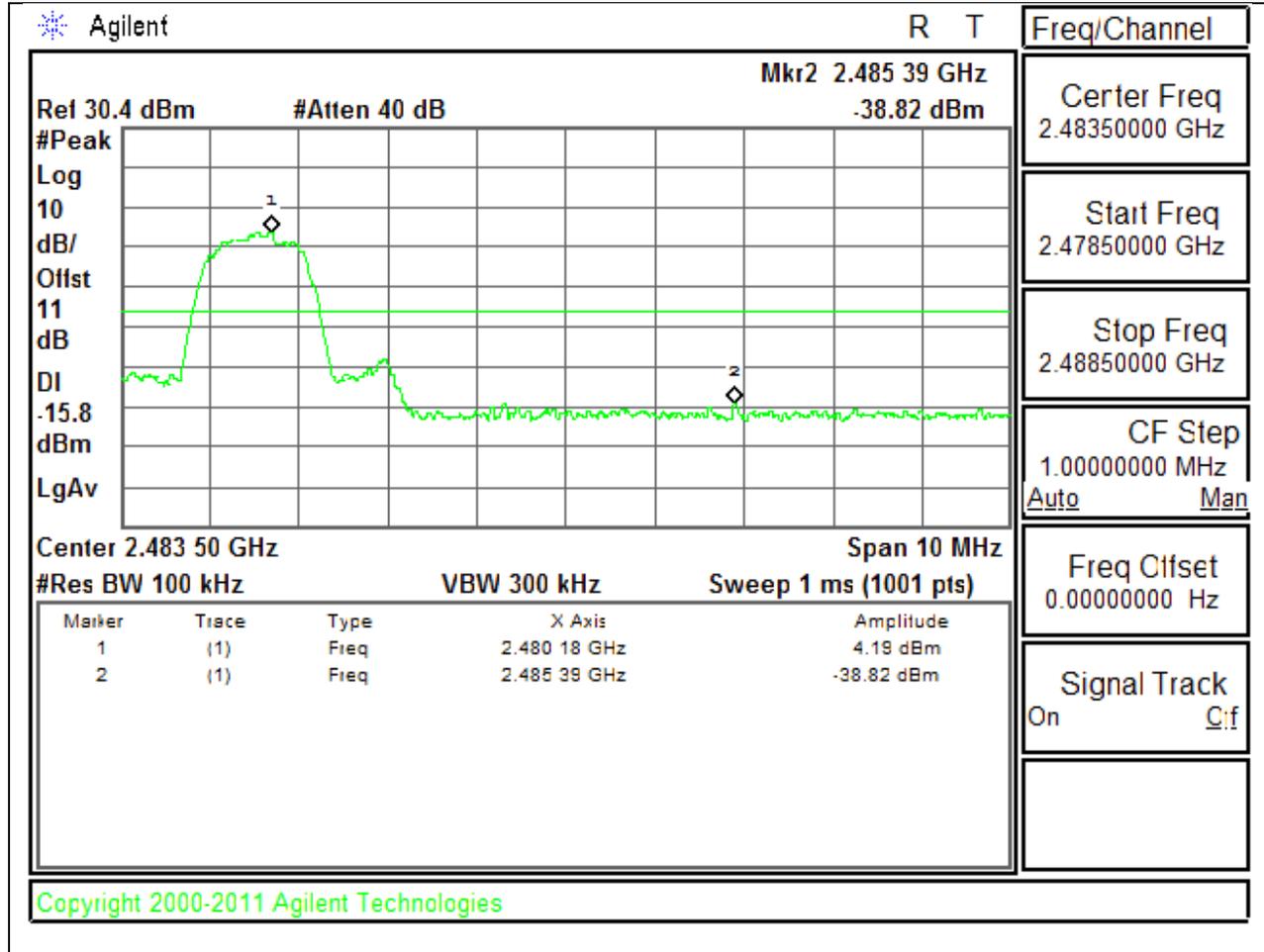


MID CHANNEL SPURIOUS

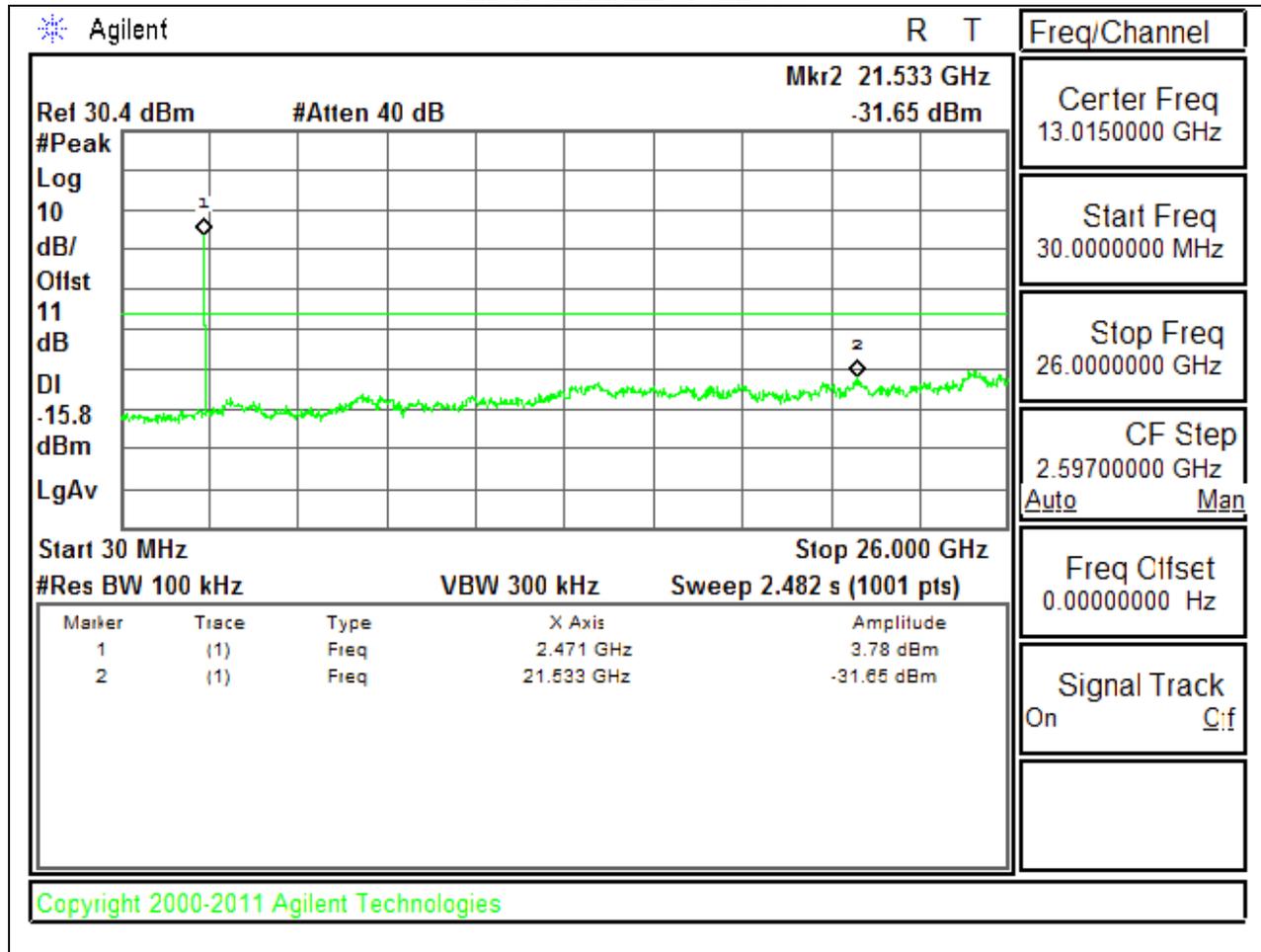


SPURIOUS EMISSIONS, HIGH CHANNEL

HIGH CHANNEL BANDEDGE

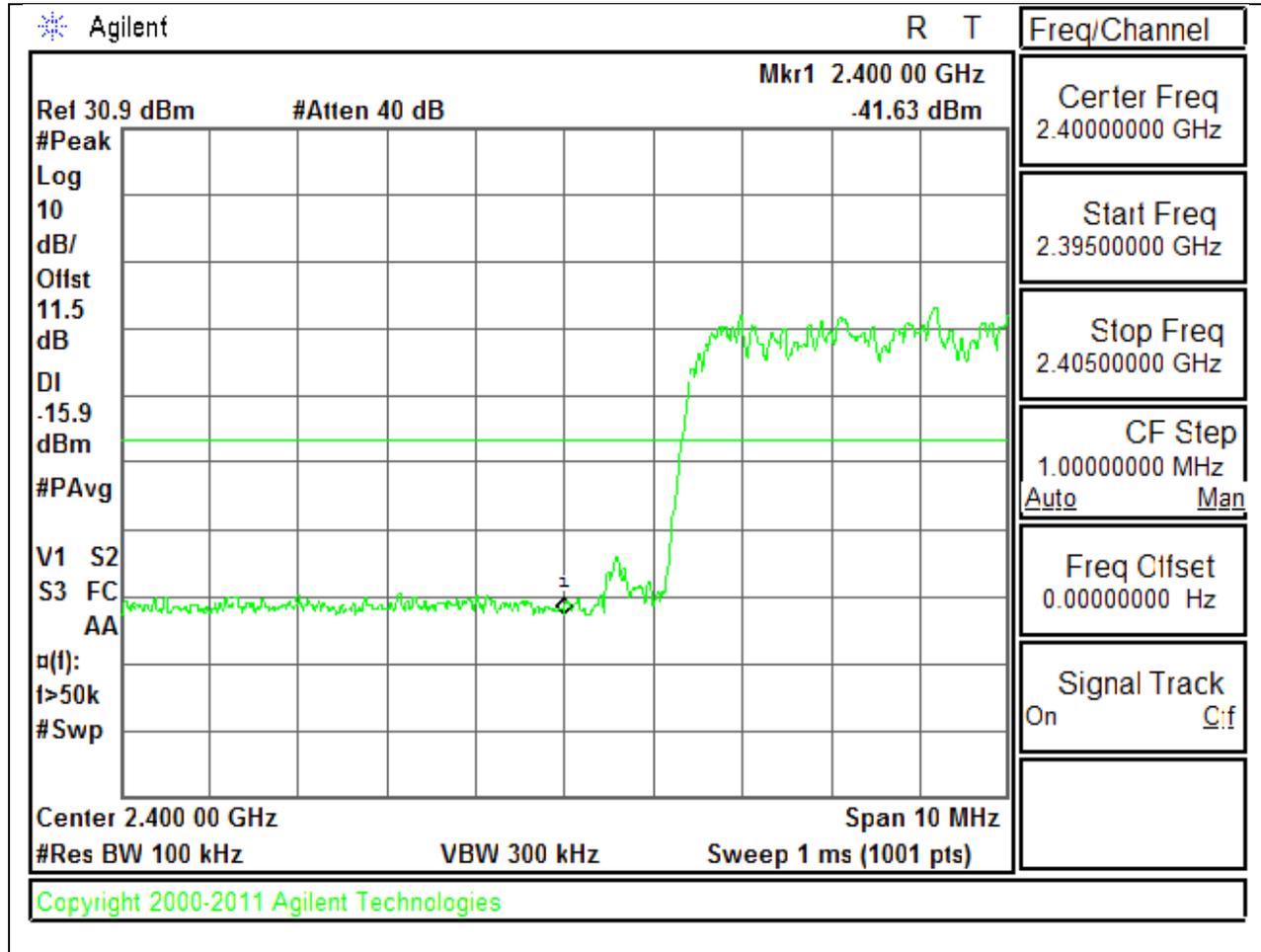


HIGH CHANNEL SPURIOUS

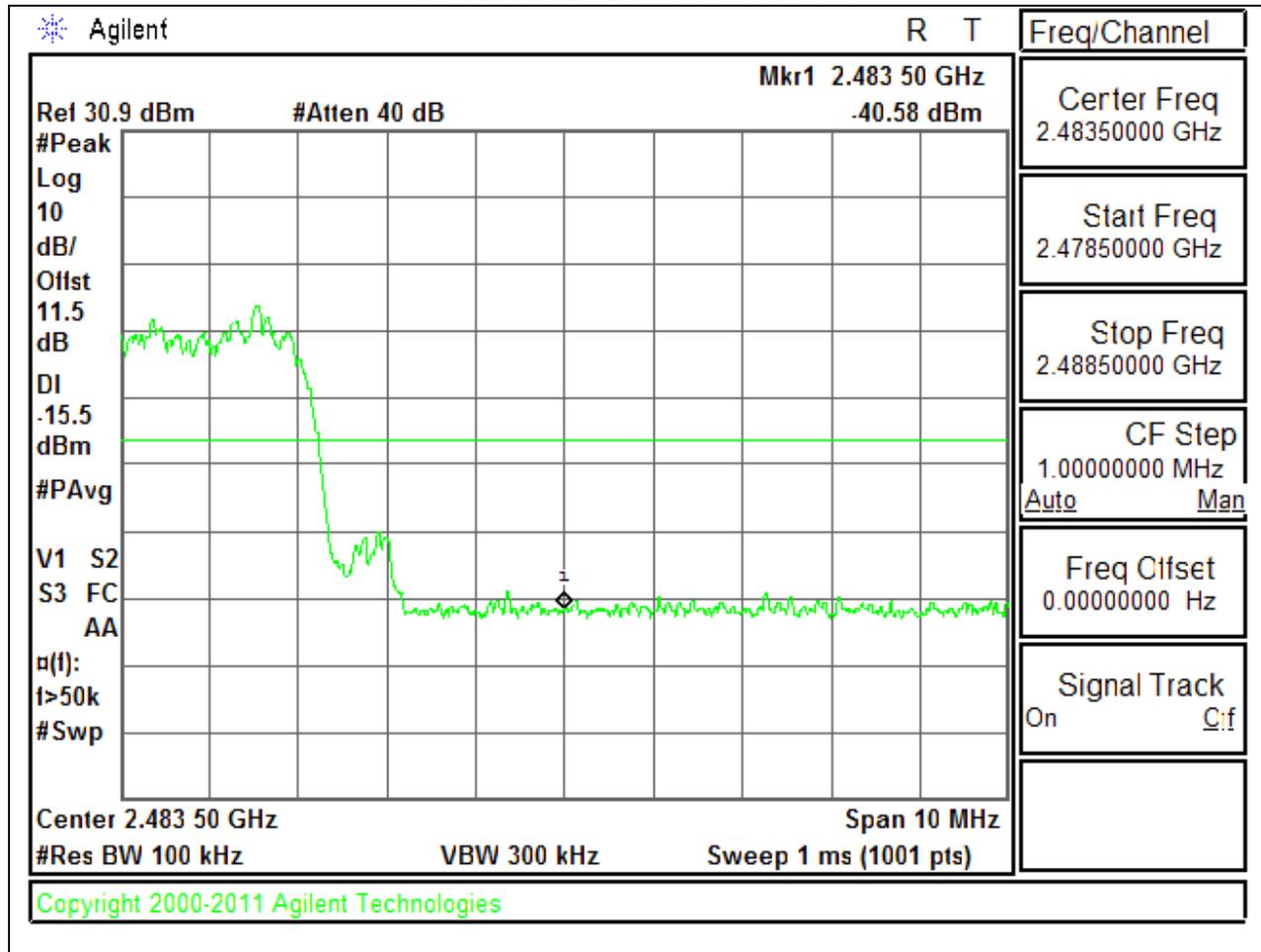


SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW BANDEDGE WITH HOPPING ON



HIGH BANDEDGE WITH HOPPING ON



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN Clause 8.9 (Transmitter)

IC RSS-GEN Clause 7 (Receiver)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. 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 band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 1/T (on time) for average measurement. $GFSK = 1/T = 1 / 0.002887S = 350Hz$.

The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

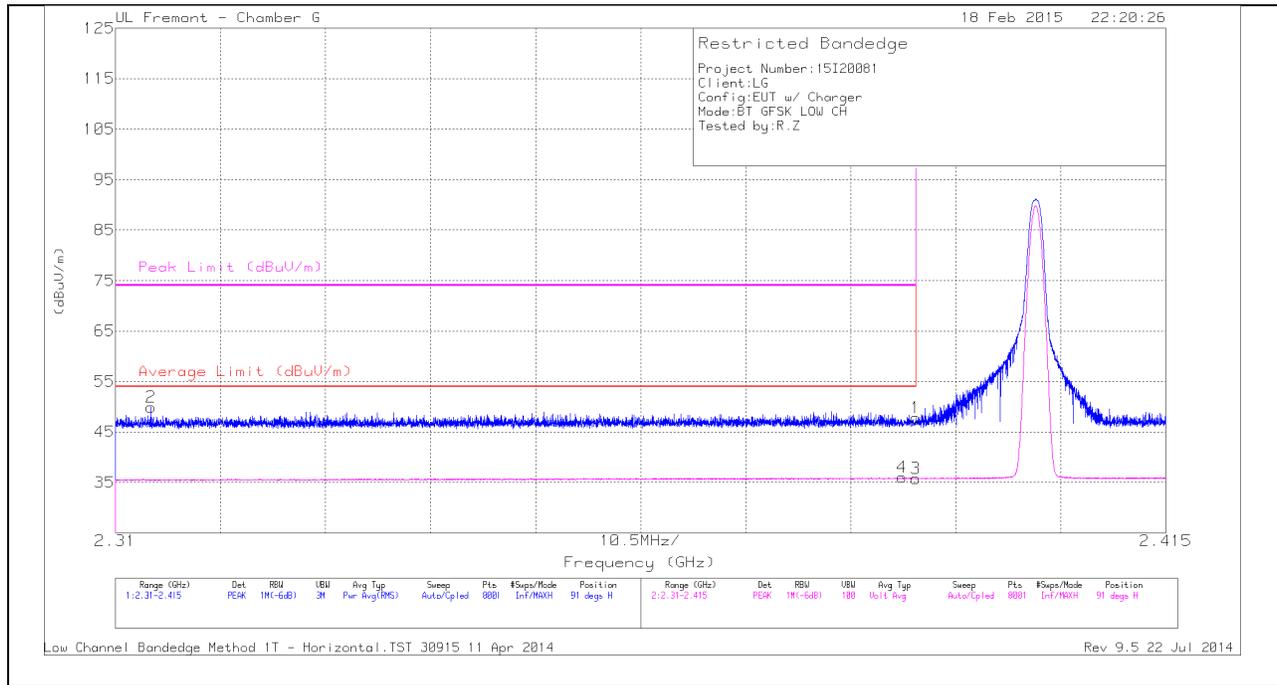
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEGE (LOW CHANNEL)

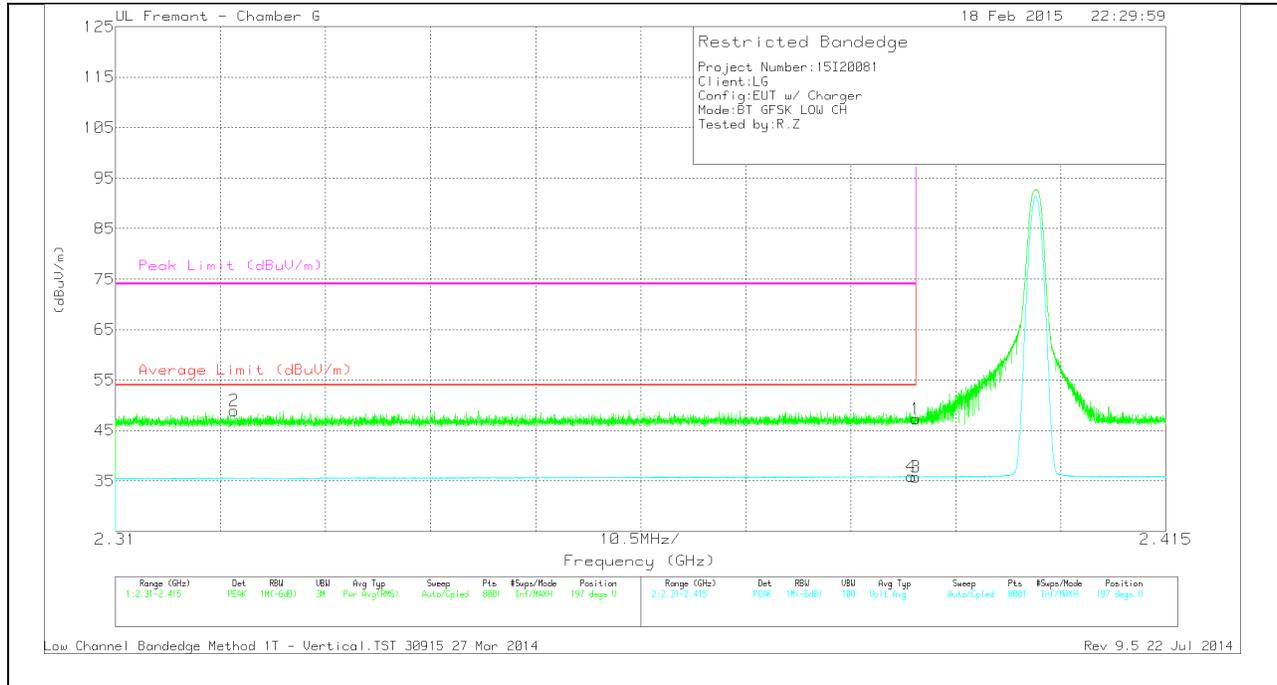
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.314	40.88	PK	31.8	-24.9	47.78	-	-	74	-26.22	91	106	H
2	* 2.314	43.29	PK	31.6	-25	49.89	-	-	74	-24.11	91	106	H
3	* 2.39	28.84	VB1T	31.8	-24.9	35.74	54	-18.26	-	-	91	106	H
4	* 2.389	29.06	VB1T	31.8	-24.9	35.96	54	-18.04	-	-	91	106	H

VERTICAL PEAK AND AVERAGE PLOT

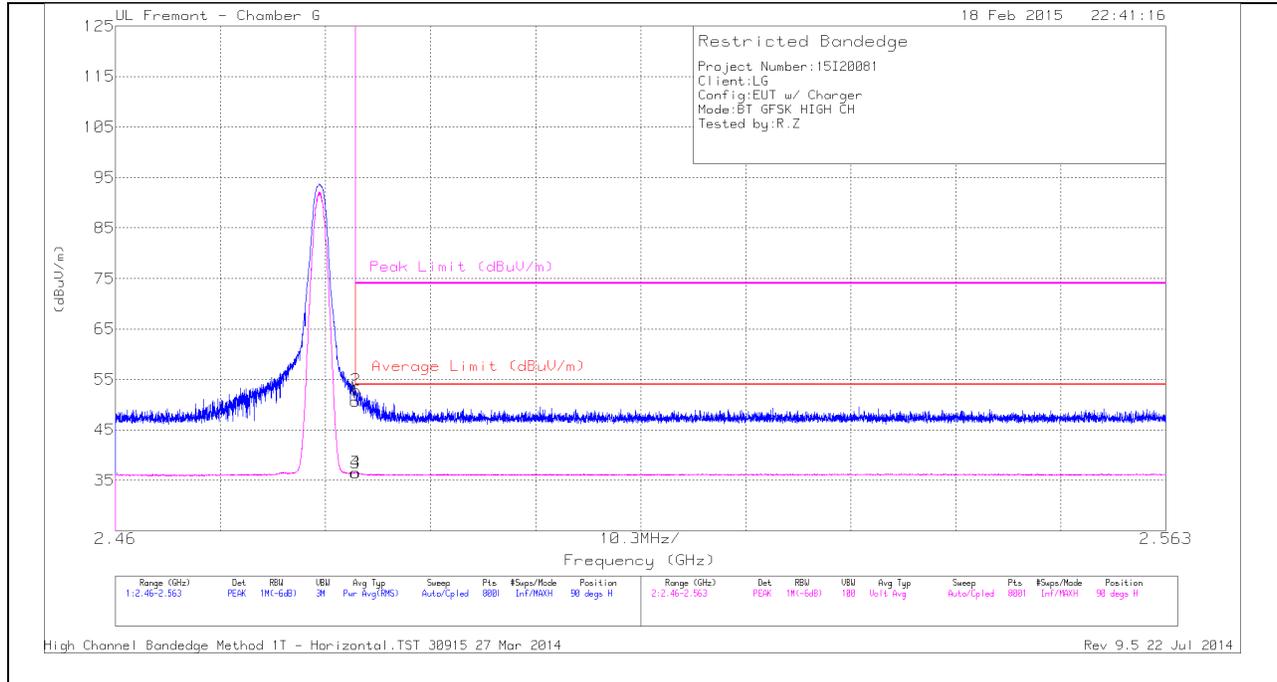


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.45	PK	31.8	-24.9	47.35	-	-	74	-26.65	197	104	V
2	* 2.322	42.31	PK	31.6	-25	48.91	-	-	74	-25.09	197	104	V
3	* 2.39	28.87	VB1T	31.8	-24.9	35.77	54	-18.23	-	-	197	104	V
4	* 2.39	29.01	VB1T	31.8	-24.9	35.91	54	-18.09	-	-	197	104	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

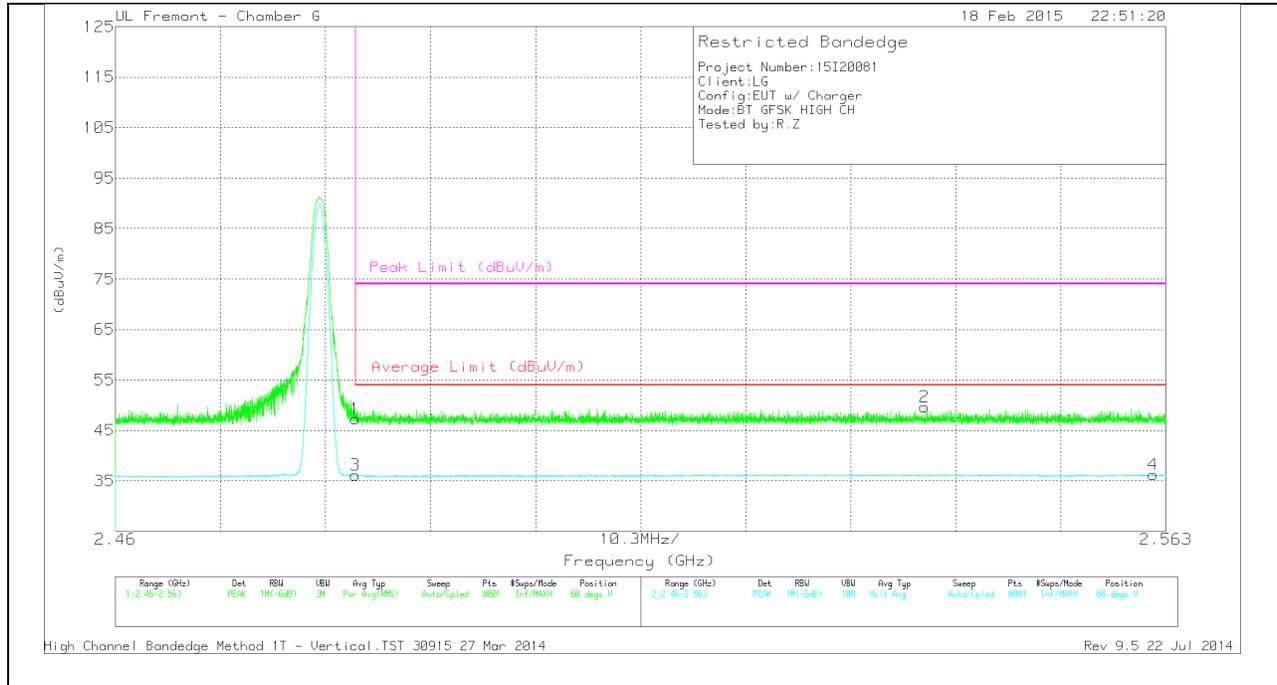
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.57	PK	32	-24.9	50.67	-	-	74	-23.33	90	213	H
2	* 2.484	45.76	PK	32	-24.9	52.86	-	-	74	-21.14	90	213	H
3	* 2.484	29.4	VB1T	32	-24.9	36.5	54	-17.5	-	-	90	213	H
4	* 2.484	29.47	VB1T	32	-24.9	36.57	54	-17.43	-	-	90	213	H

VERTICAL PEAK AND AVERAGE PLOT

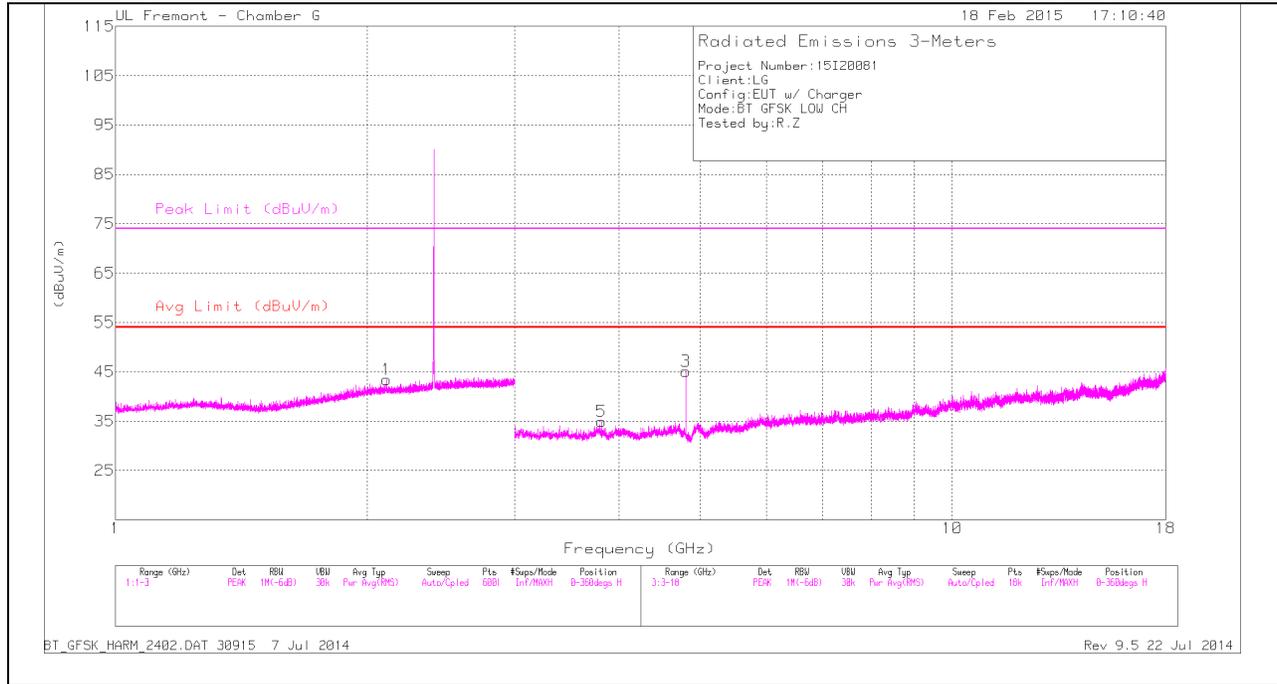


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.2	PK	32	-24.9	47.3	-	-	74	-26.7	60	101	V
3	* 2.484	29.01	VB1T	32	-24.9	36.11	54	-17.89	-	-	60	101	V
2	2.539	42.56	PK	32	-24.9	49.66	-	-	74	-24.34	60	101	V
4	2.562	29.16	VB1T	32	-24.9	36.26	54	-17.74	-	-	60	101	V

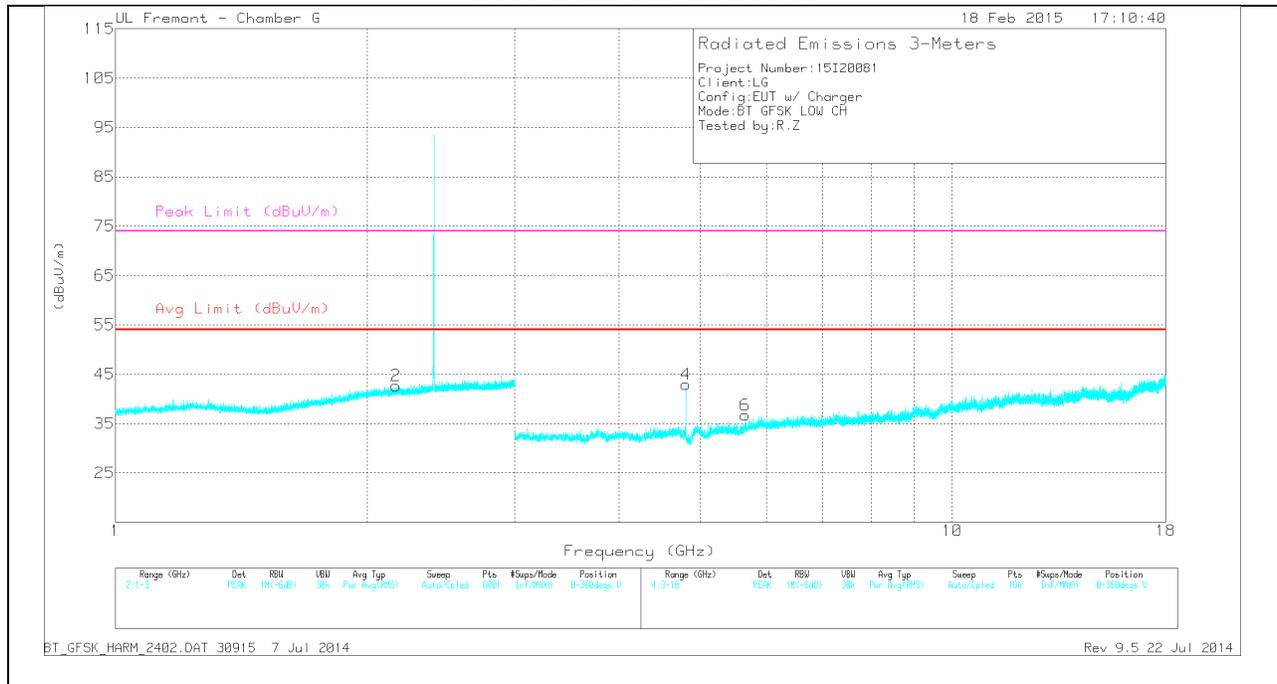
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

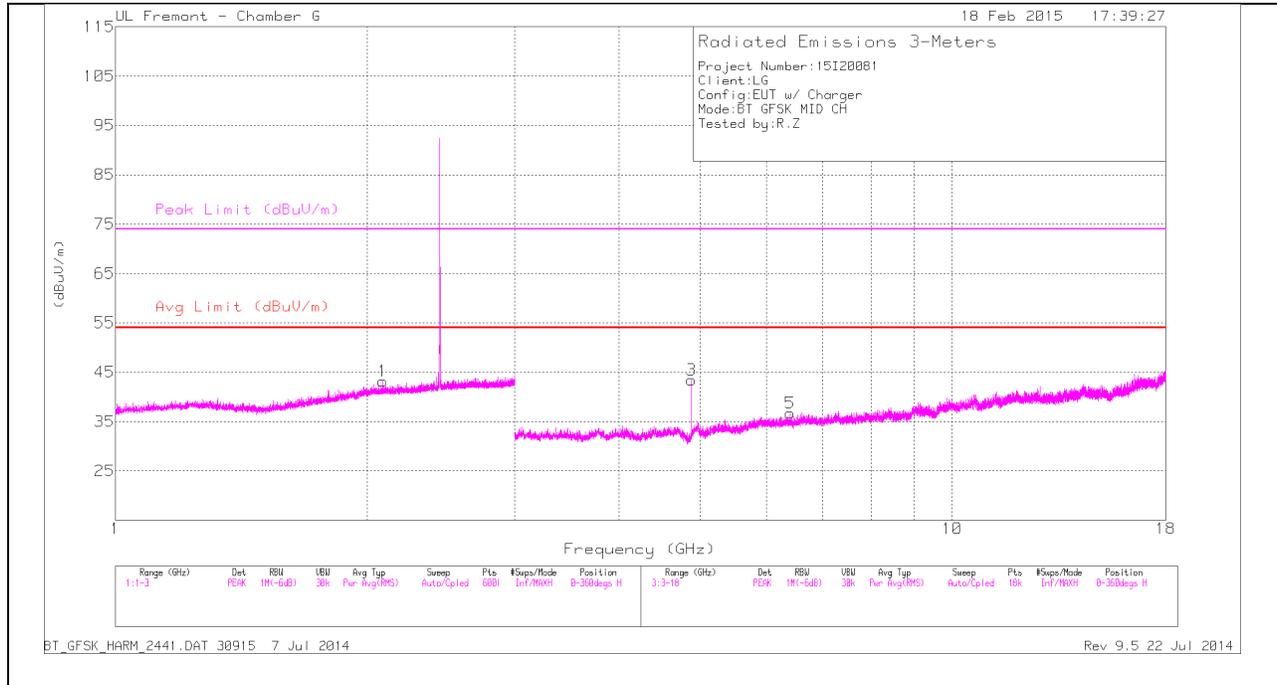
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.804	44.19	PK	34.1	-33.2	45.09	-	-	74	-28.91	0-360	101	H
5	* 3.807	35.13	PK	33	-33.2	34.93	-	-	74	-39.07	0-360	101	H
4	* 4.804	41.98	PK	34.1	-33.2	42.88	-	-	74	-31.12	0-360	201	V
1	2.107	37.1	PK	31.4	-25.1	43.4	-	-	-	-	0-360	101	H
2	2.162	36.42	PK	31.4	-25.1	42.72	-	-	-	-	0-360	201	V
6	5.661	34.02	PK	34.8	-32.1	36.72	-	-	-	-	0-360	201	V

PK - Peak detector

RADIATED EMISSIONS

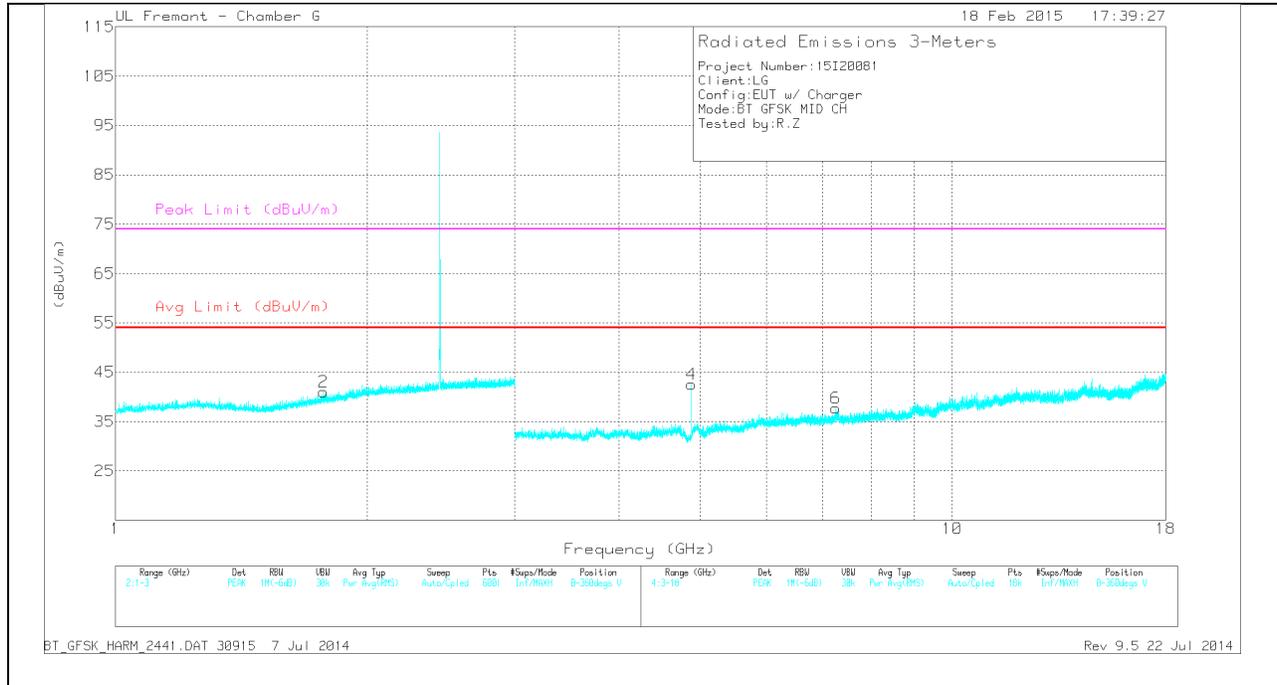
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.804	49.25	PK3	34.1	-33.2	50.15	-	-	74	-23.85	177	109	H
* 4.804	45.04	VB1T	34.1	-33.2	45.94	54	-8.06	-	-	177	109	H
* 3.807	41.11	PK3	33	-33.2	40.91	-	-	74	-33.09	177	102	H
* 3.807	28.95	VB1T	33	-33.2	28.75	54	-25.25	-	-	177	102	H
* 4.804	48.14	PK3	34.1	-33.2	49.04	-	-	74	-24.96	114	288	V
* 4.804	42.71	VB1T	34.1	-33.2	43.61	54	-10.39	-	-	114	288	V

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

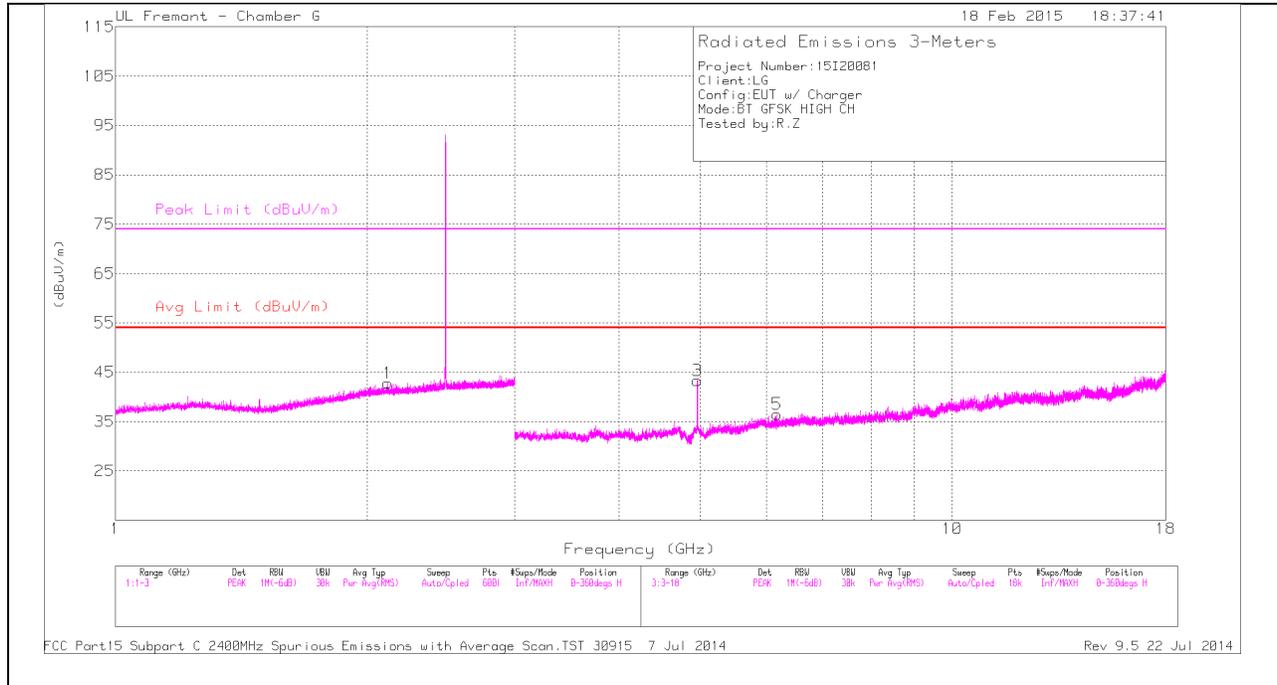
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.882	42.32	PK	34.1	-33	0	43.42	-	-	74	-30.58	0-360	201	H
4	* 4.882	41.4	PK	34.1	-33	0	42.5	-	-	74	-31.5	0-360	201	V
6	* 7.256	32.99	PK	35.6	-30.9	0	37.69	-	-	74	-36.31	0-360	201	V
2	1.771	36.72	PK	29.7	-25.4	0	41.02	-	-	-	-	0-360	201	V
1	2.087	36.94	PK	31.4	-25.1	0	43.24	-	-	-	-	0-360	101	H
5	6.402	33.57	PK	35.6	-32.4	0	36.77	-	-	-	-	0-360	101	H

PK - Peak detector

RADIATED EMISSIONS

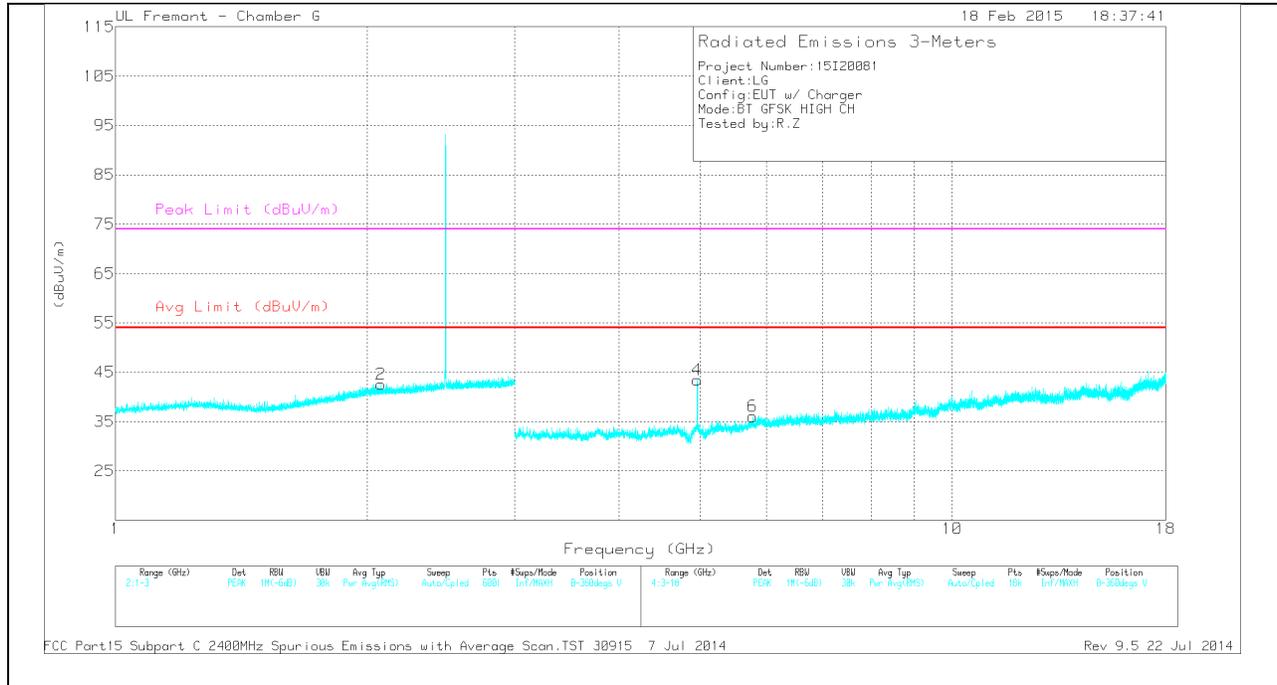
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.882	48.23	PK3	34.1	-33	0	49.33	-	-	74	-24.67	157	285	H
* 4.882	43.22	VB1T	34.1	-33	0	44.32	54	-9.68	-	-	157	285	H
* 4.883	46.01	PK3	34.1	-33	0	47.11	-	-	74	-26.89	89	310	V
* 4.882	40.87	VB1T	34.1	-33	0	41.97	54	-12.03	-	-	89	310	V

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.96	42.15	PK	34.1	-32.9	0	43.35	-	-	74	-30.65	0-360	201	H
4	* 4.96	42.27	PK	34.1	-32.9	0	43.47	-	-	74	-30.53	0-360	201	V
2	2.077	36.36	PK	31.4	-25.2	0	42.56	-	-	-	-	0-360	101	V
1	2.114	36.5	PK	31.4	-25.1	0	42.8	-	-	-	-	0-360	201	H
6	5.778	33.92	PK	34.8	-32.7	0	36.02	-	-	-	-	0-360	101	V
5	6.177	33.92	PK	35.6	-33	0	36.52	-	-	-	-	0-360	201	H

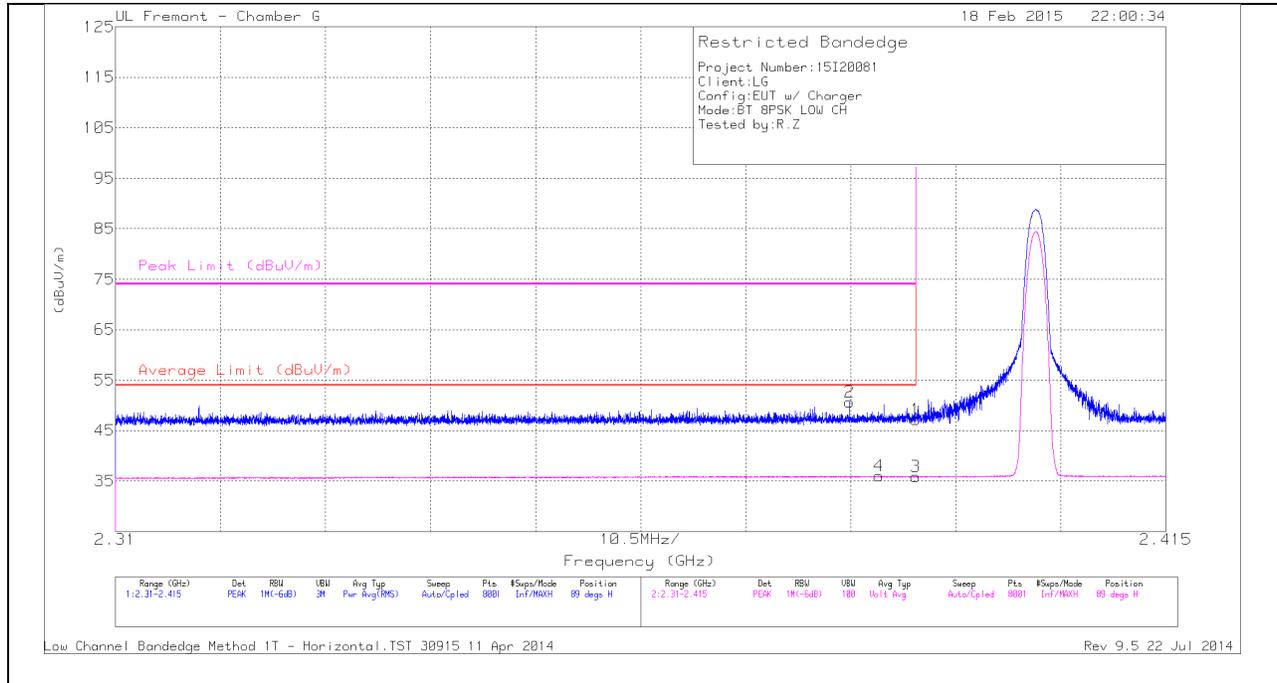
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/ Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96	47.58	PK3	34.1	-32.9	0	48.78	-	-	74	-25.22	152	180	H
* 4.96	41.88	VB1T	34.1	-32.9	0	43.08	54	-10.92	-	-	152	180	H
* 4.96	46.35	PK3	34.1	-32.9	0	47.55	-	-	74	-26.45	84	199	V
* 4.96	40.34	VB1T	34.1	-32.9	0	41.54	54	-12.46	-	-	84	199	V

9.2.2. ENHANCED DATA RATE 8PSK MODULATION RESTRICTED BANDEDGE (LOW CHANNEL)

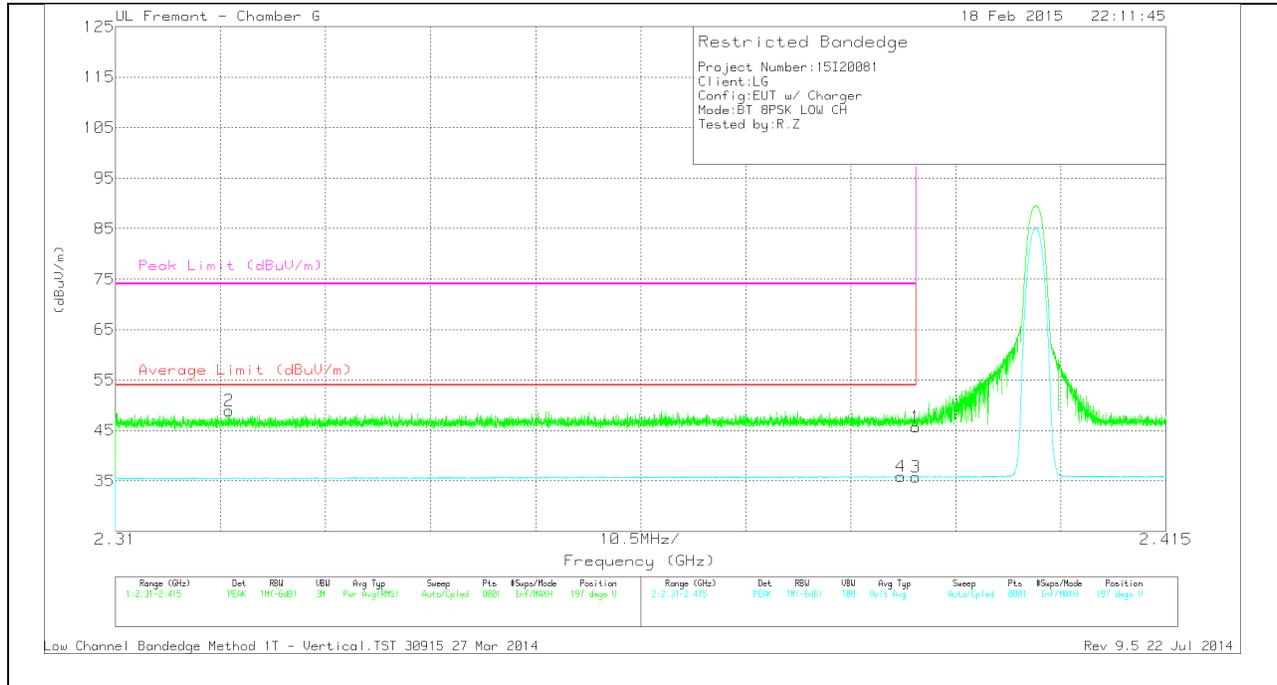
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	40.29	PK	31.8	-24.9	47.19	-	-	74	-26.81	89	178	H
2	* 2.383	43.72	PK	31.8	-24.9	50.62	-	-	74	-23.38	89	178	H
3	* 2.39	28.95	VB1T	31.8	-24.9	35.85	54	-18.15	-	-	89	178	H
4	* 2.386	29.11	VB1T	31.8	-24.9	36.01	54	-17.99	-	-	89	178	H

VERTICAL PEAK AND AVERAGE PLOT

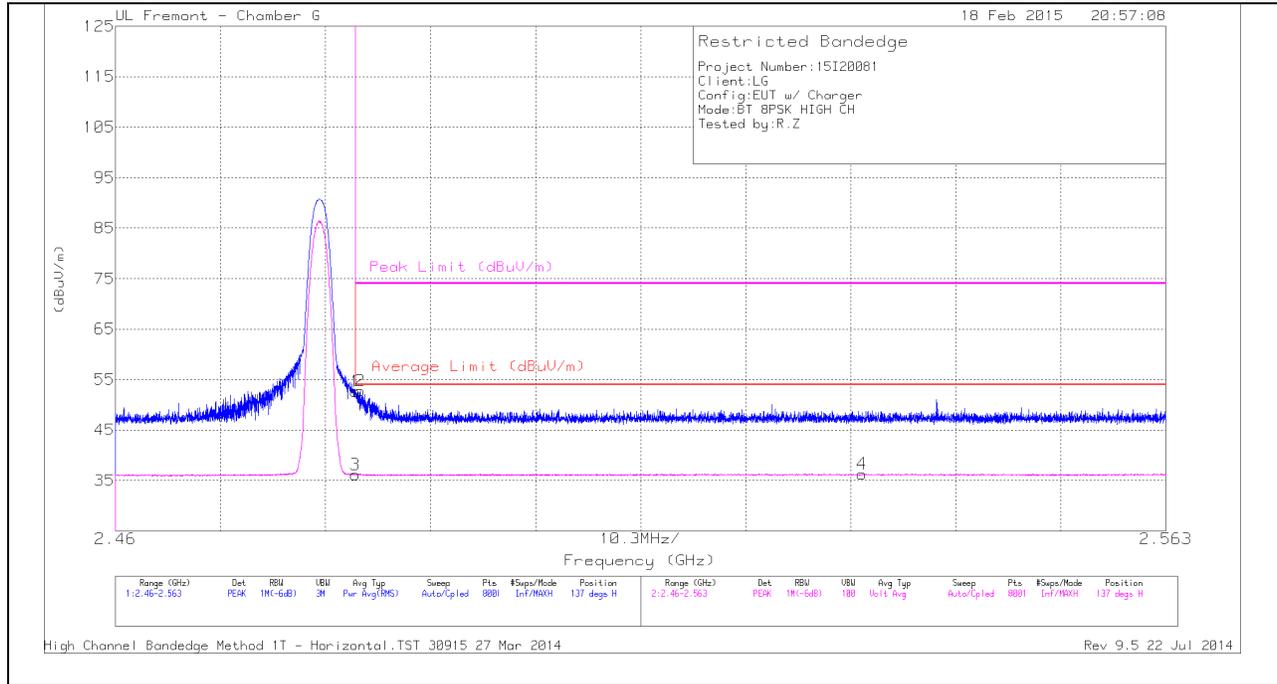


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.84	PK	31.8	-24.9	45.74	-	-	74	-28.26	197	103	V
2	* 2.321	42.3	PK	31.6	-25	48.9	-	-	74	-25.1	197	103	V
3	* 2.39	28.91	VB1T	31.8	-24.9	35.81	54	-18.19	-	-	197	103	V
4	* 2.388	28.99	VB1T	31.8	-24.9	35.89	54	-18.11	-	-	197	103	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

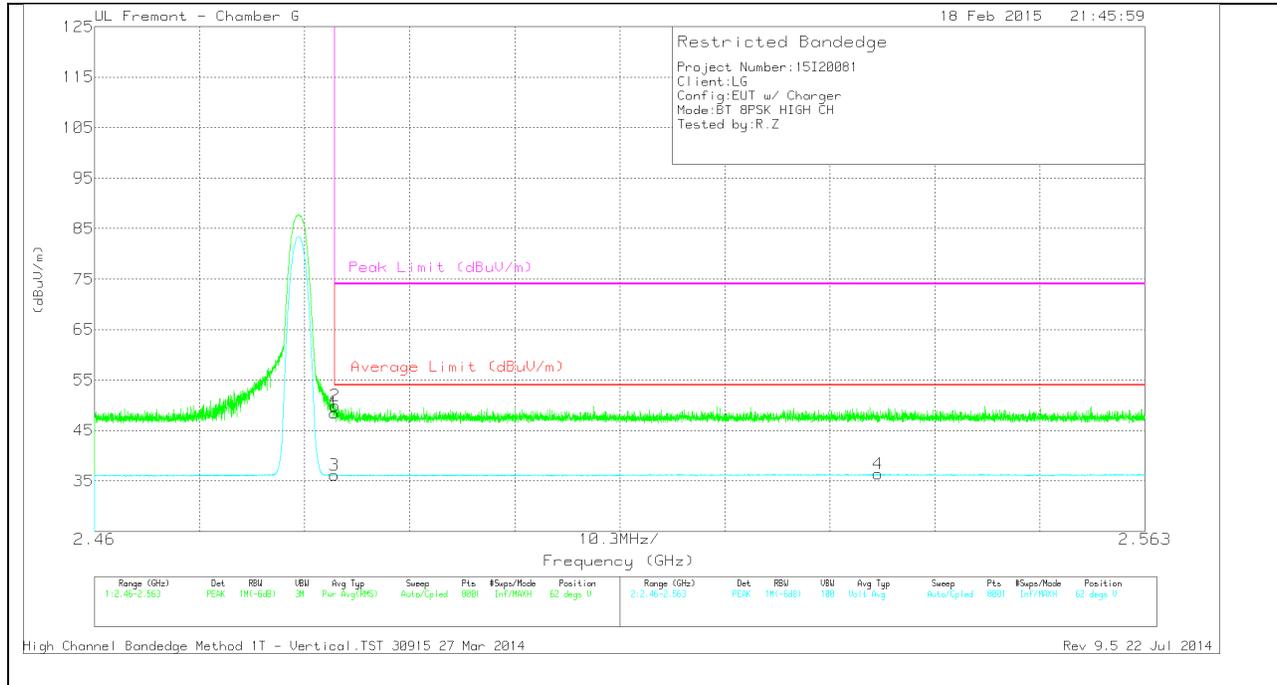
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.51	PK	32	-24.9	52.61	-	-	74	-21.39	137	211	H
2	* 2.484	45.64	PK	32	-24.9	52.74	-	-	74	-21.26	137	211	H
3	* 2.484	29.06	VB1T	32	-24.9	36.16	54	-17.84	-	-	137	211	H
4	2.533	29.22	VB1T	32	-24.9	36.32	54	-17.68	-	-	137	211	H

VERTICAL PEAK AND AVERAGE PLOT

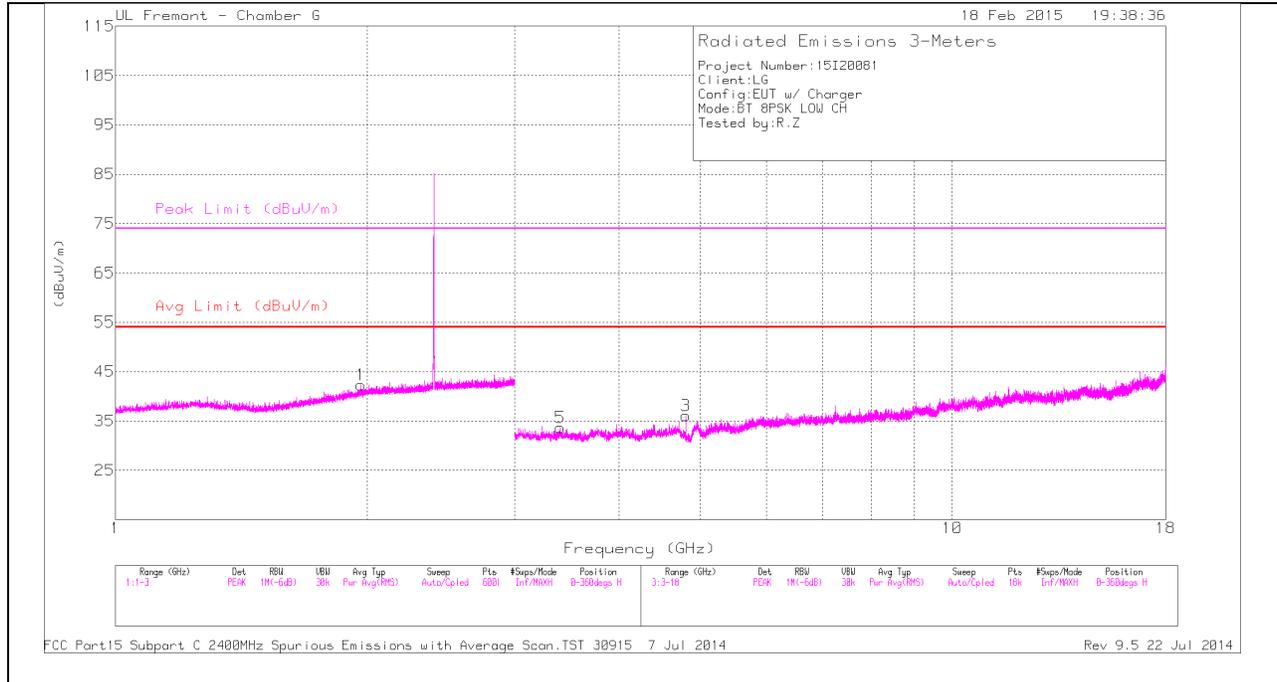


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	41.35	PK	32	-24.9	48.45	-	-	74	-25.55	62	102	V
2	* 2.484	42.77	PK	32	-24.9	49.87	-	-	74	-24.13	62	102	V
3	* 2.484	29.02	VB1T	32	-24.9	36.12	54	-17.88	-	-	62	102	V
4	2.537	29.23	VB1T	32	-24.9	36.33	54	-17.67	-	-	62	102	V

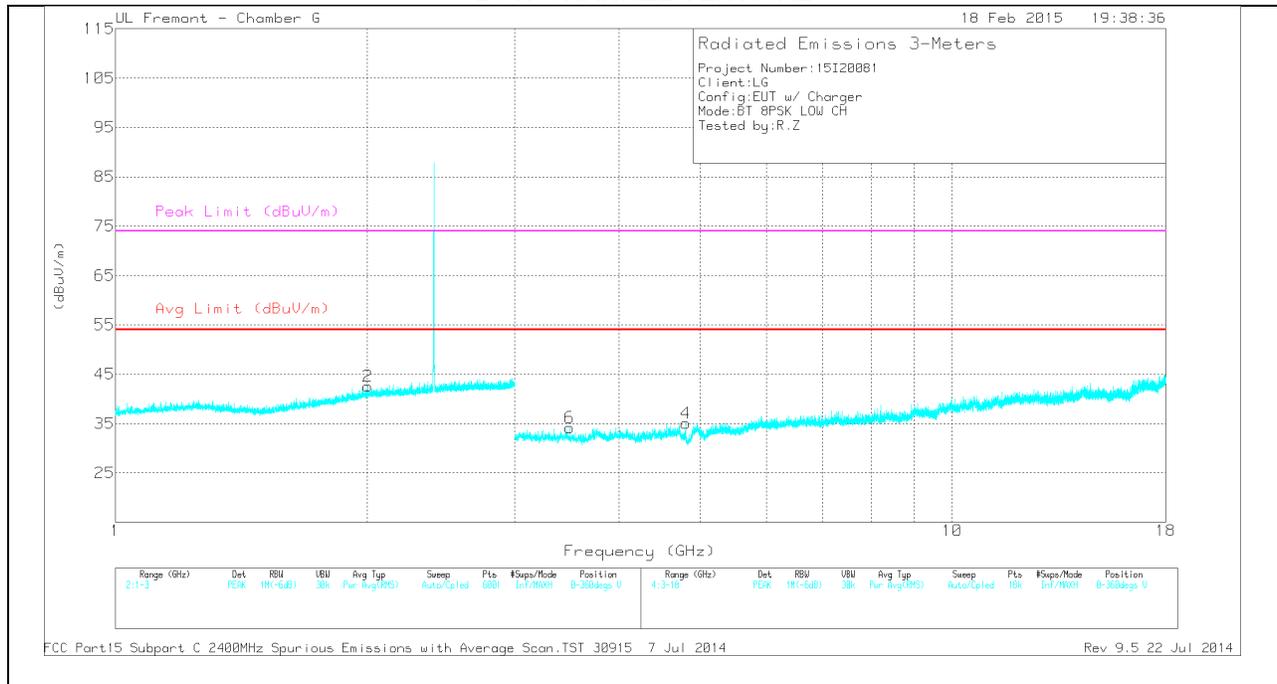
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

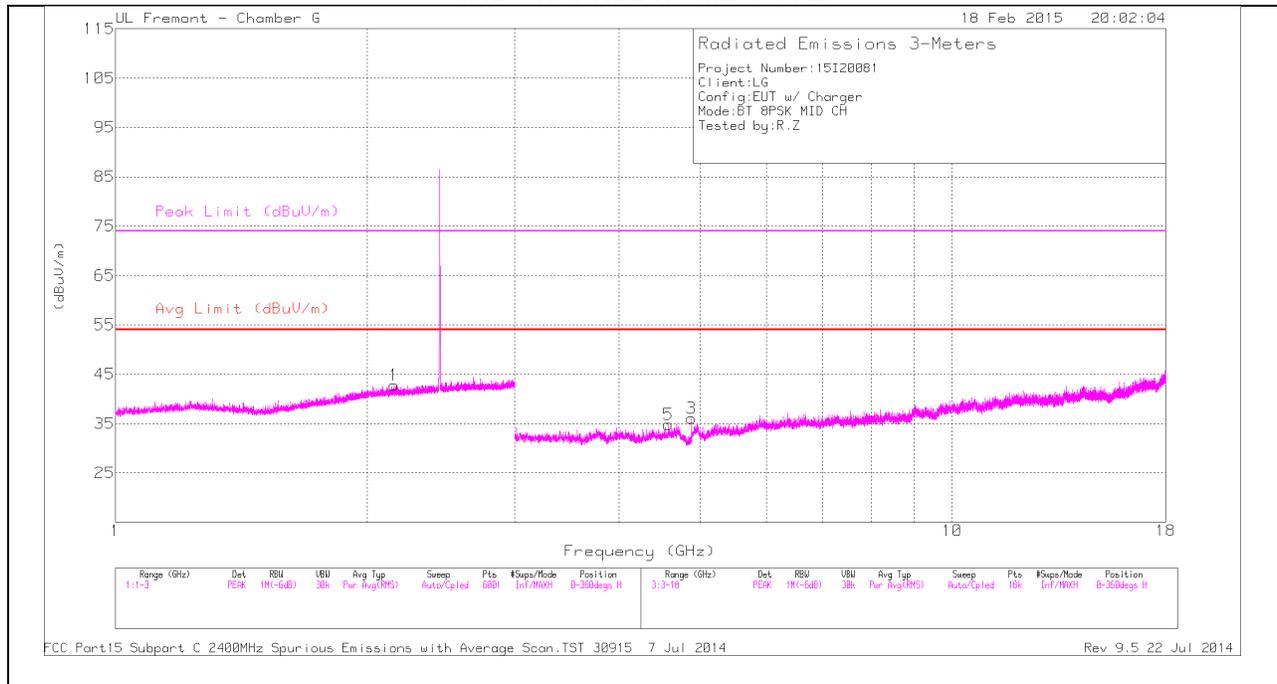
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.804	35.19	PK	34.1	-33.2	36.09	-	-	74	-37.91	0-360	201	H
4	* 4.804	34.11	PK	34.1	-33.2	35.01	-	-	74	-38.99	0-360	101	V
1	1.967	36.61	PK	31.1	-25.4	42.31	-	-	-	-	0-360	101	H
2	2.003	36.54	PK	31.3	-25.3	42.54	-	-	-	-	0-360	101	V
5	3.402	34.12	PK	32.9	-33.3	33.72	-	-	-	-	0-360	101	H
6	3.488	34.82	PK	32.8	-33.5	34.12	-	-	-	-	0-360	201	V

PK - Peak detector

RADIATED EMISSIONS

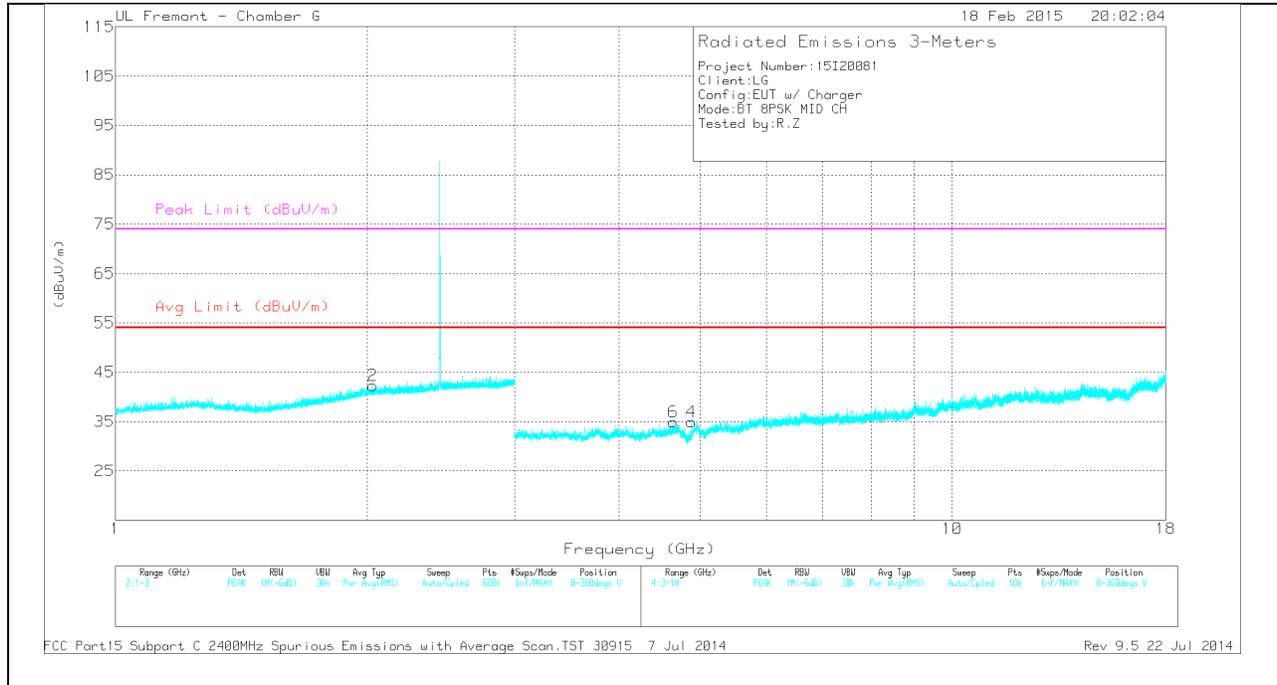
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.804	45.09	PK3	34.1	-33.2	45.99	-	-	74	-28.01	293	327	H
* 4.804	35.49	VB1T	34.1	-33.2	36.39	54	-17.61	-	-	293	327	H
* 4.804	43.94	PK3	34.1	-33.2	44.84	-	-	74	-29.16	142	109	V
* 4.804	34.18	VB1T	34.1	-33.2	35.08	54	-18.92	-	-	142	109	V

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

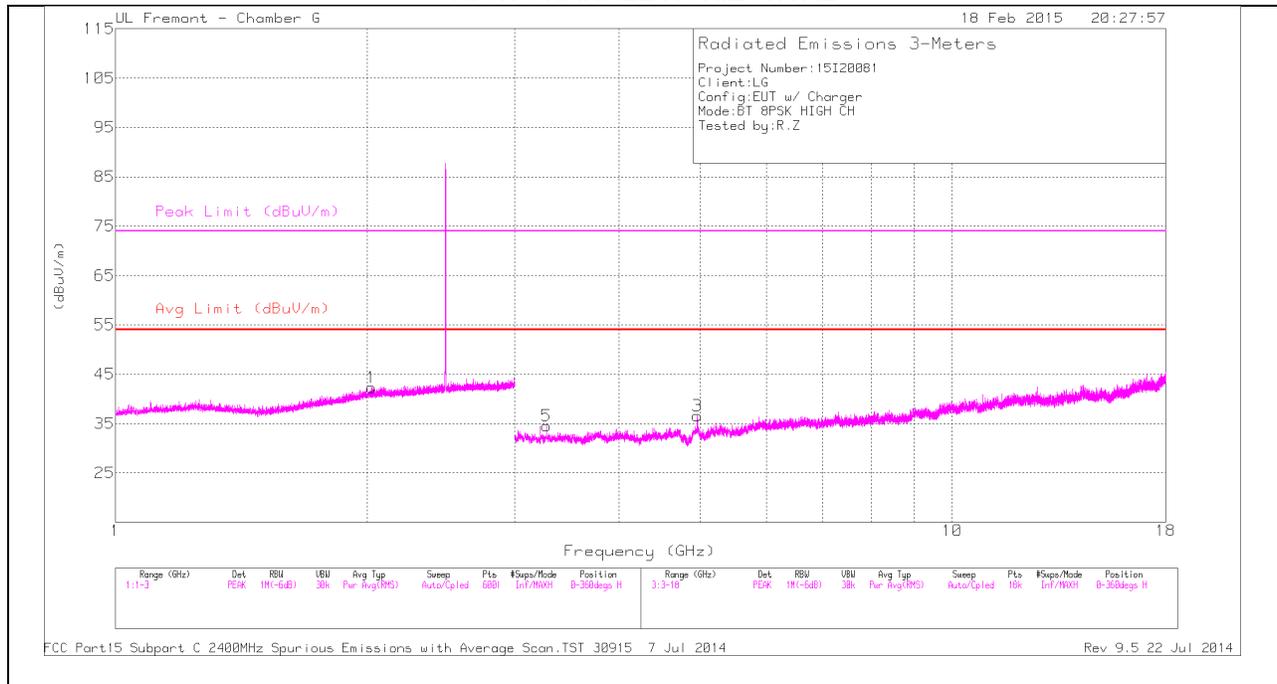
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.882	35.01	PK	34.1	-33	36.11	-	-	74	-37.89	0-360	101	H
5	* 4.581	34.25	PK	33.8	-33.2	34.85	-	-	74	-39.15	0-360	101	H
4	* 4.882	33.8	PK	34.1	-33	34.9	-	-	74	-39.1	0-360	201	V
6	* 4.642	34.07	PK	33.9	-33	34.97	-	-	74	-39.03	0-360	201	V
2	2.031	36.15	PK	31.3	-25.2	42.25	-	-	-	-	0-360	101	V
1	2.154	36.47	PK	31.4	-25.1	42.77	-	-	-	-	0-360	100	H

PK - Peak detector

RADIATED EMISSIONS

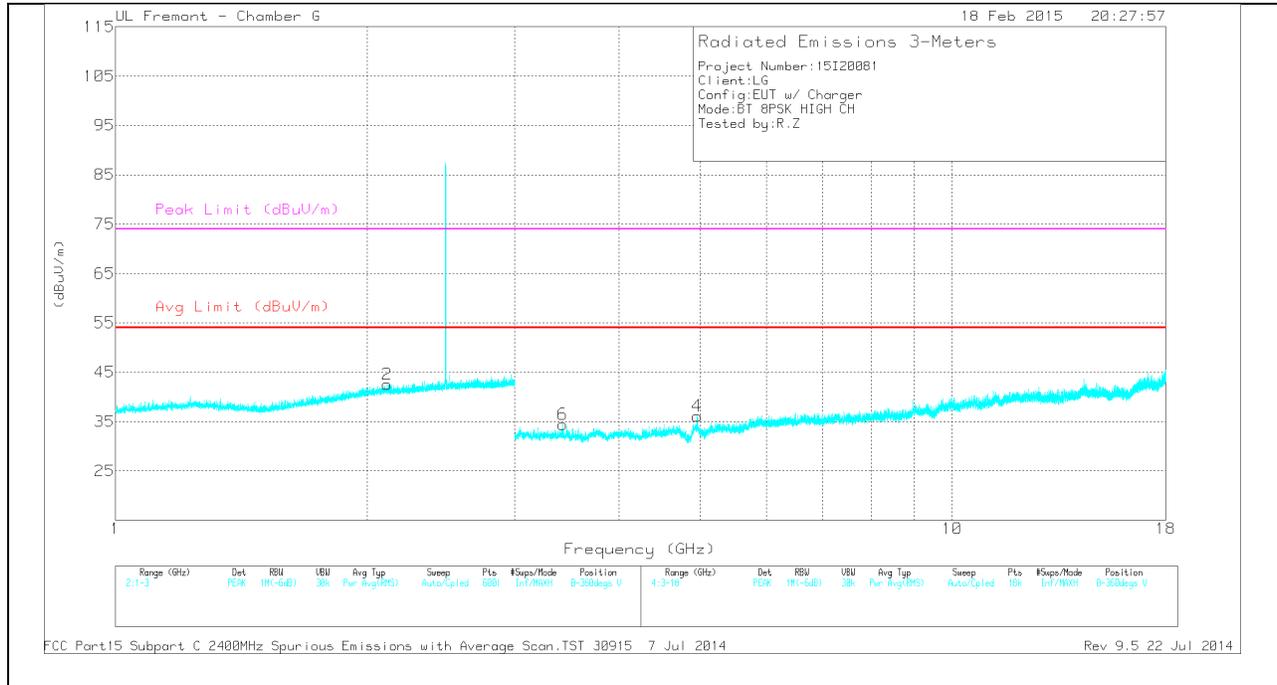
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.882	43.6	PK3	34.1	-33	44.7	-	-	74	-29.3	170	284	H
* 4.882	34.24	VB1T	34.1	-33	35.34	54	-18.66	-	-	170	284	H
* 4.58	41.21	PK3	33.8	-33.2	41.81	-	-	74	-32.19	107	382	H
* 4.582	28.59	VB1T	33.8	-33.2	29.19	54	-24.81	-	-	107	382	H
* 4.882	43.43	PK3	34.1	-33	44.53	-	-	74	-29.47	87	209	V
* 4.882	32.94	VB1T	34.1	-33	34.04	54	-19.96	-	-	87	209	V

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.96	35.43	PK	34.1	-32.9	36.63	-	-	74	-37.37	0-360	201	H
4	* 4.96	34.94	PK	34.1	-32.9	36.14	-	-	74	-37.86	0-360	201	V
1	2.025	36.34	PK	31.3	-25.3	42.34	-	-	-	-	0-360	201	H
2	2.112	36.28	PK	31.4	-25.1	42.58	-	-	-	-	0-360	201	V
5	3.275	35.01	PK	33	-33.5	34.51	-	-	-	-	0-360	101	H
6	3.427	34.82	PK	32.9	-33.3	34.42	-	-	-	-	0-360	201	V

PK - Peak detector

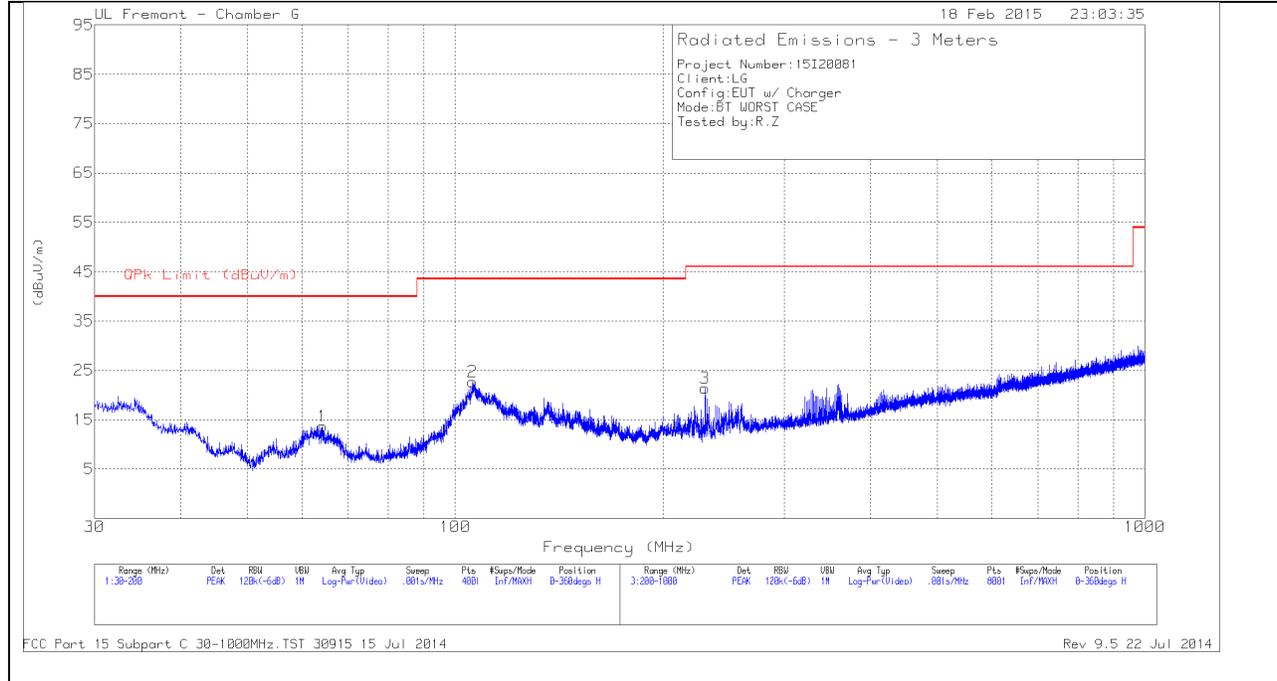
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96	44.03	PK3	34.1	-32.9	45.23	-	-	74	-28.77	158	224	H
* 4.96	33.36	VB1T	34.1	-32.9	34.56	54	-19.44	-	-	158	224	H
* 4.96	42.76	PK3	34.1	-32.9	43.96	-	-	74	-30.04	81	205	V
* 4.96	32.36	VB1T	34.1	-32.9	33.56	54	-20.44	-	-	81	205	V

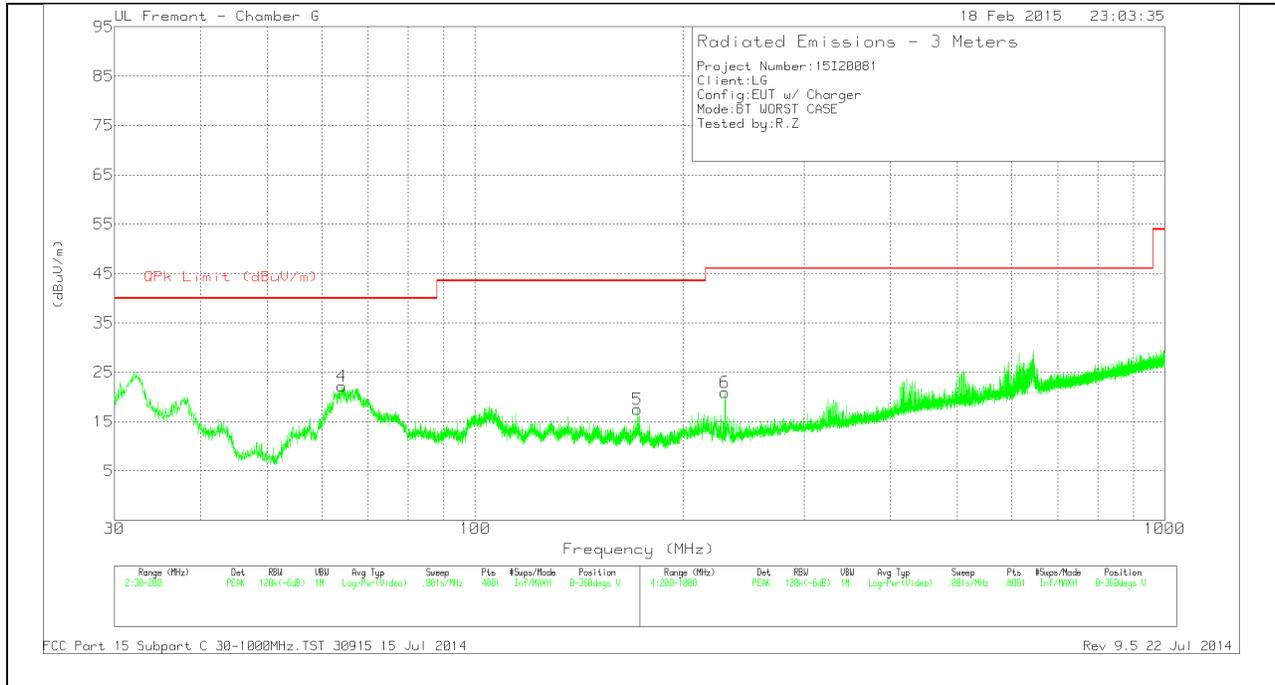
9.3. WORST-CASE BELOW 1 GHz

GFSK SPOURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



VERTICAL PLOT



BELOW 1 GHz TABLE

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid	Amp Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 171.865	32.54	PK	14.8	-29.9	17.44	43.52	-26.08	0-360	100	V
4	64.1275	41.83	PK	11.1	-30.8	22.13	40	-17.87	0-360	100	V
1	64.17	33.42	PK	11.1	-30.8	13.72	40	-26.28	0-360	401	H
2	106.0325	38.45	PK	14.7	-30.5	22.65	43.52	-20.87	0-360	301	H
3	230.4	36.8	PK	14	-29.4	21.4	46.02	-24.62	0-360	100	H
6	230.4	36.36	PK	14	-29.4	20.96	46.02	-25.06	0-360	100	V

PK - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

^{*} Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

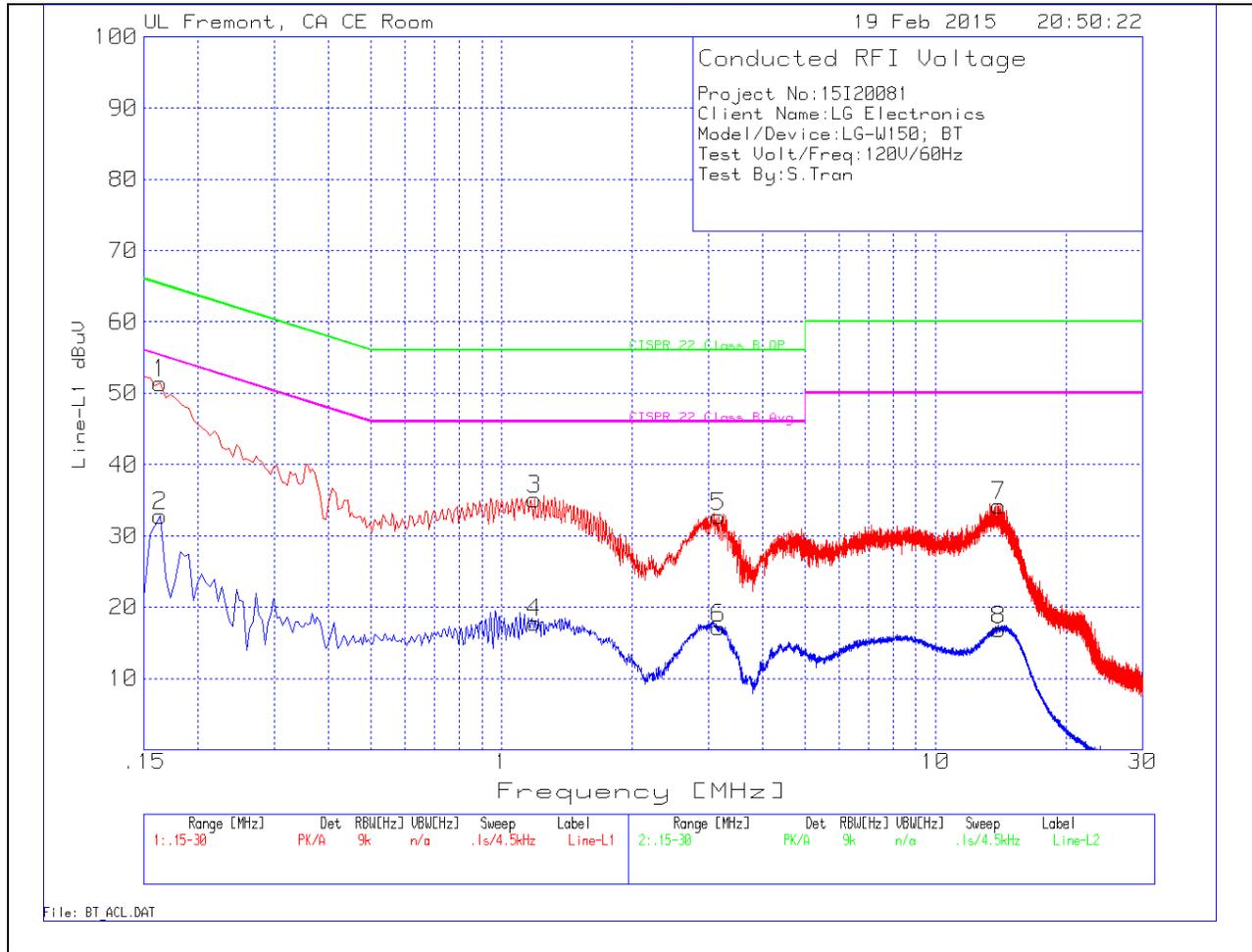
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



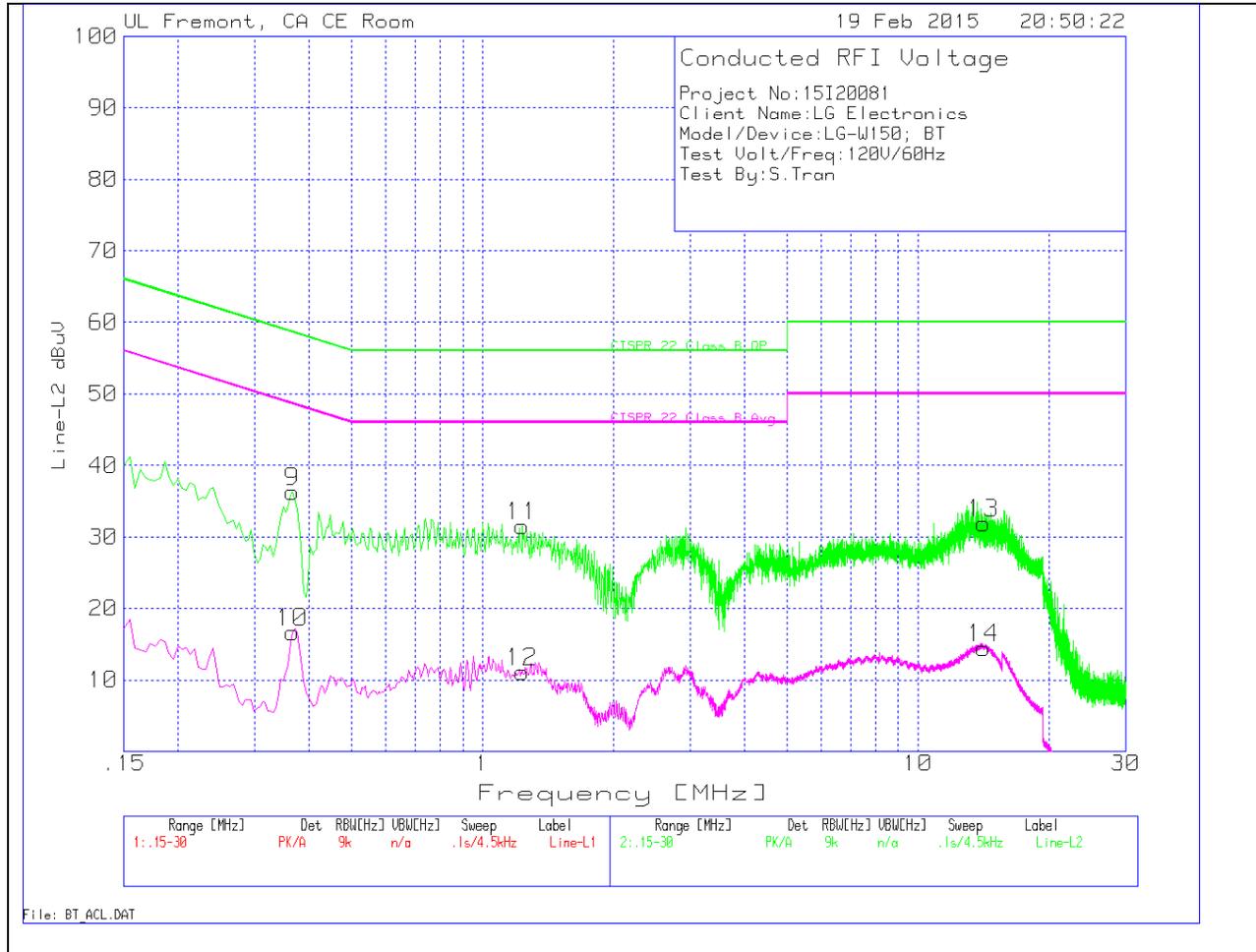
LINE 1 RESULTS

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.1635	50.26	PK	1.2	0	51.46	65.3	-13.84	-	-
2	.1635	31.57	Av	1.2	0	32.77	-	-	55.3	-22.53
3	1.1895	34.84	PK	.2	.1	35.14	56	-20.86	-	-
4	1.1895	17.5	Av	.2	.1	17.8	-	-	46	-28.2
5	3.165	32.44	PK	.2	.1	32.74	56	-23.26	-	-
6	3.165	16.81	Av	.2	.1	17.11	-	-	46	-28.89
7	13.983	33.83	PK	.2	.2	34.23	60	-25.77	-	-
8	13.983	16.45	Av	.2	.2	16.85	-	-	50	-33.15

LINE 2 PLOT



LINE 2 RESULTS

Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
9	.366	35.78	PK	.5	0	36.28	58.6	-22.32	-	-
10	.366	16.2	Av	.5	0	16.7	-	-	48.6	-31.9
11	1.2345	31.22	PK	.2	.1	31.52	56	-24.48	-	-
12	1.2345	10.79	Av	.2	.1	11.09	-	-	46	-34.91
13	14.1585	31.5	PK	.2	.2	31.9	60	-28.1	-	-
14	14.1585	14.05	Av	.2	.2	14.45	-	-	50	-35.55