



FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE Tablet + Bluetooth, DTS/UNII a/b/g/n/ac, ANT+ & NFC

FCC ID: PY7TM-0053

REPORT NUMBER: 14U17921- E2

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.

EUT DESCRIPTION: GSM/WCDMA/LTE Tablet + Bluetooth, DTS/UNII a/b/g/n/ac, ANT+ & NFC

SERIAL NUMBER: CB5A20E0RY (Radiated), CB5A208FAY (Conducted)

DATE TESTED: August 11-28, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	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, and FCC CFR 47 Part 15.

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 checked="" type="checkbox"/> Chamber A	<input type="checkbox"/> Chamber D
<input checked="" type="checkbox"/> Chamber B	<input type="checkbox"/> Chamber E
<input checked="" type="checkbox"/> Chamber C	<input type="checkbox"/> Chamber F
	<input type="checkbox"/> Chamber G
	<input type="checkbox"/> Chamber H

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 26000 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 GSM/WCDMA/LTE TABLET + Bluetooth, DTS/UNII a/b/g/n/ac, ANT+ & NFC.
This test report addresses the Bluetooth (BT) operational mode.

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	4.17	2.61
2402 - 2480	Enhanced 8PSK	5.50	3.55

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 an FPCB antenna, with a maximum gain of -1.9 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	Sony	EP880	3514W01 S08489 SEM 060	DoC
Earphone	Sony	MH410c	14071EB60060A84	DoC
MHL cable	Sony	N/A	N/A	N/A

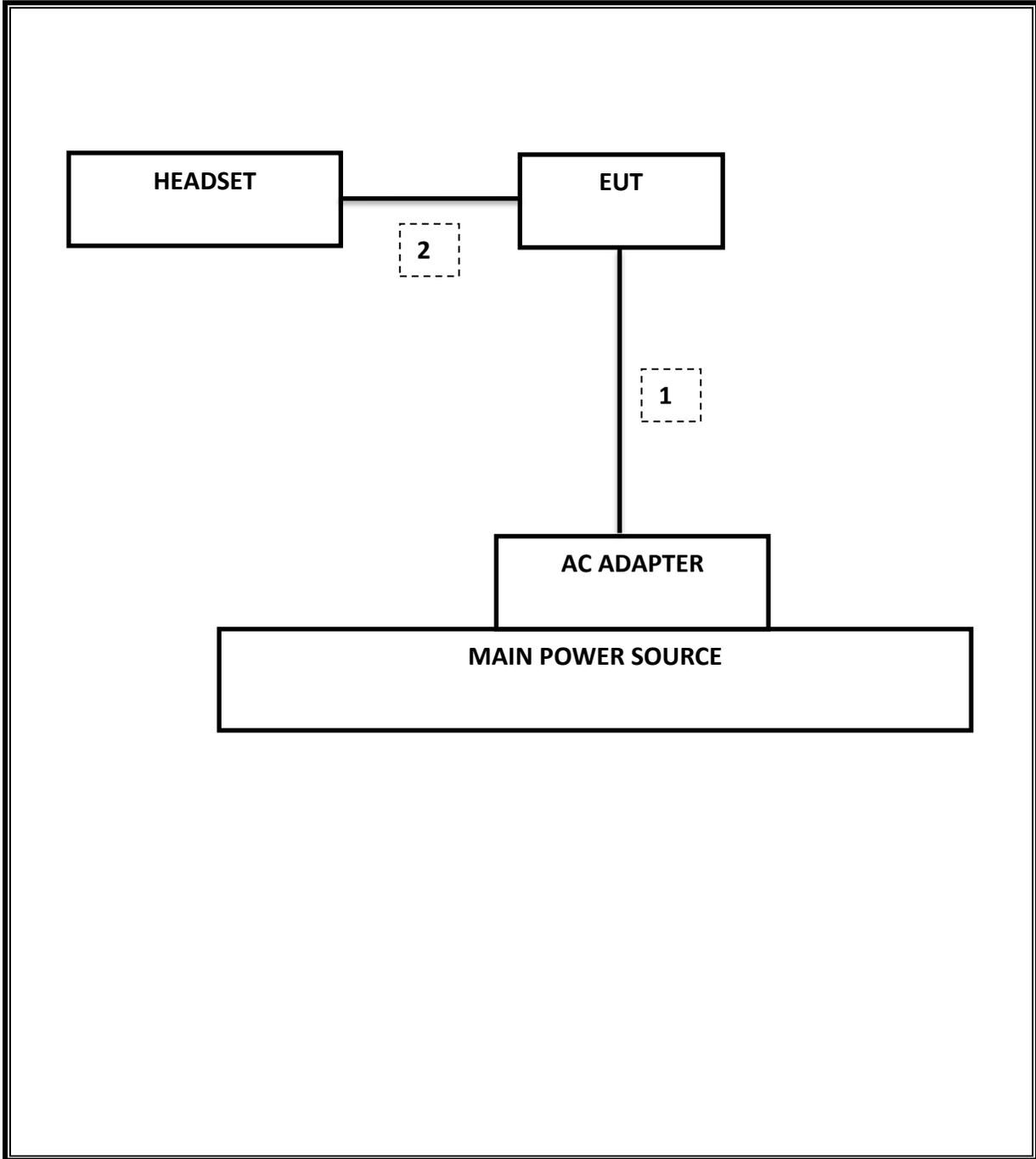
I/O CABLES

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.

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	C01171	02/13/15
Antenna, Horn, 18GHz	EMCO	3115	C00783	10/25/14
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/14/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/28/15
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	10/22/14
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/14
CBT Bluetooth Tester	R & S	CBT	None	07/12/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/14
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/14
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/15
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/14
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/14

7. SUMMARY TABLE

The FCC ID: PY7TM-0053 shares the same enclosure and circuit board as FCC ID: PY7TM-0050. The Bluetooth circuitry and layout, including antenna, are almost identical between the two units. The Bluetooth antenna and surrounding circuitry is the same between these two units. The main difference between the two models is that WWAN circuitry in FCC ID: PY7TM-0050 is removed few bands for FCC ID: PY7TM-0053

After confirming through preliminary radiated emissions that the performance of the FCC ID: PY7TM-0053 remains representative of FCC ID: PY7TM-0050, test data for FCC ID: PY7TM-0050 is being submitted for this application to cover Bluetooth features.

Radiated emissions were fully re-evaluated against FCC Part 15B requirements for digital devices and results indicated no significant differences between the two versions due to the depopulation of the WWAN circuitry.

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
2.1049	RSS-GEN 4.6	Occupied Band width (99%)	N/A	Conducted	Pass	1.231MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-38.95 dBm
15.247 (b)(1)	RSS-210 A8.4	TX conducted output power	<21dBm		Pass	9.01 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
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Avg Time of Occupancy	< 0.4sec		Pass	0.375sec
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	31.19 dBuV(AV)
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	39.66 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	0.928	0.87
Middle	2441	0.926	0.852
High	2480	0.926	0.874
Worst		0.928	0.874

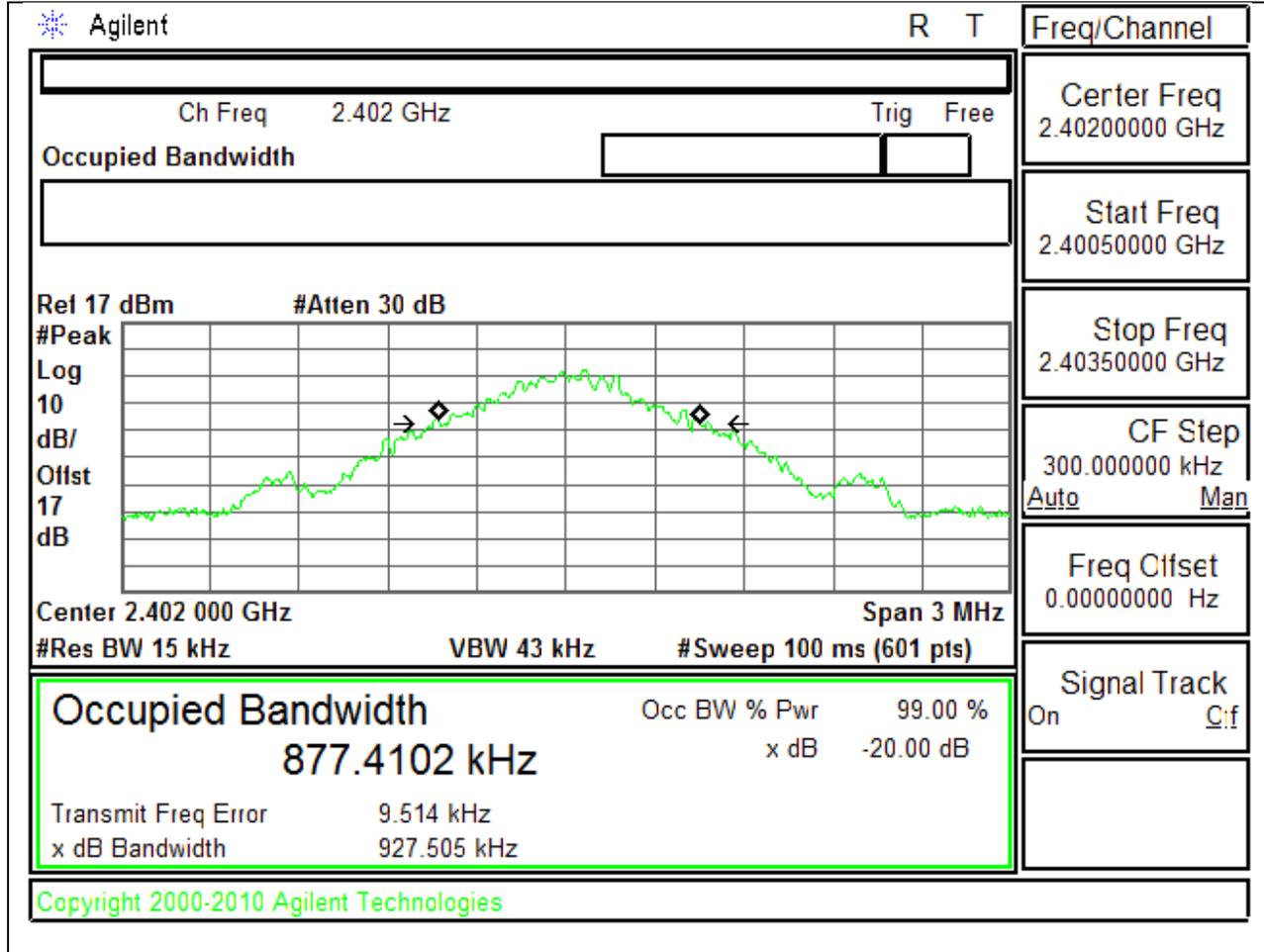
8.1.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	1.34	1.218
Middle	2441	1.341	1.191
High	2480	1.333	1.231
Worst		1.341	1.231

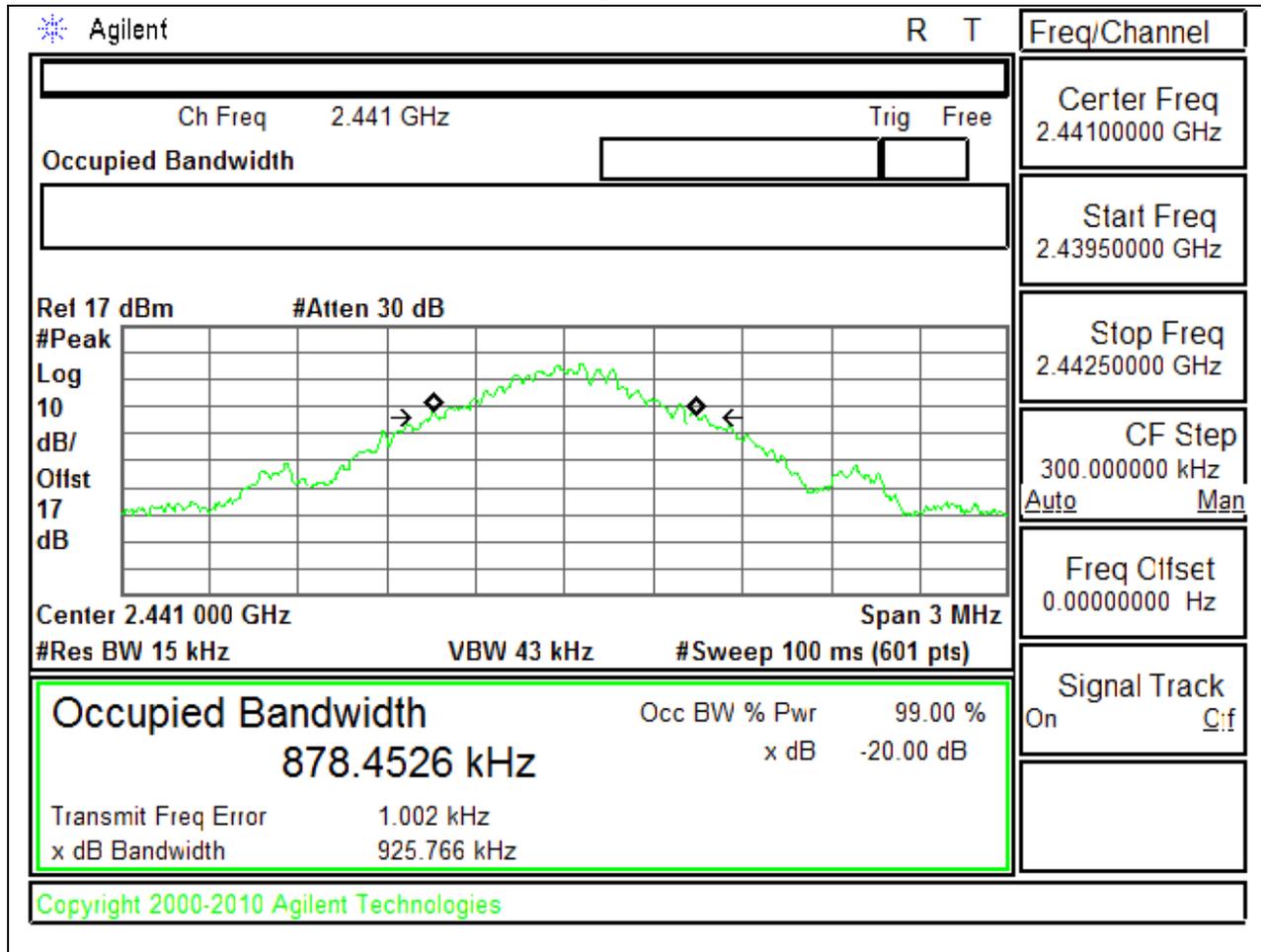
20 dB AND 99% BANDWIDTH PLOTS

GFSK 20 dB BANDWIDTH

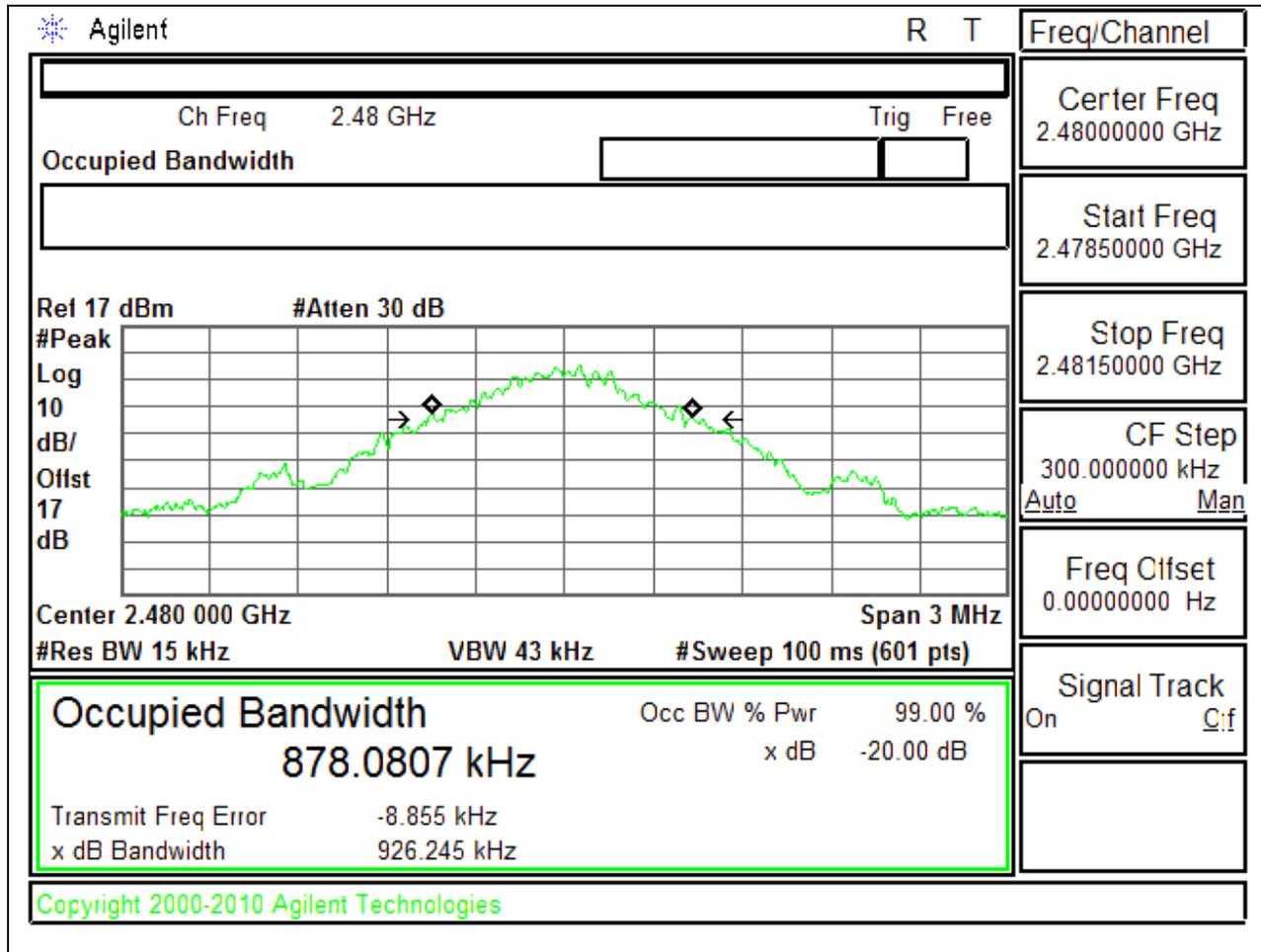
LOW CHANNEL



MID CHANNEL

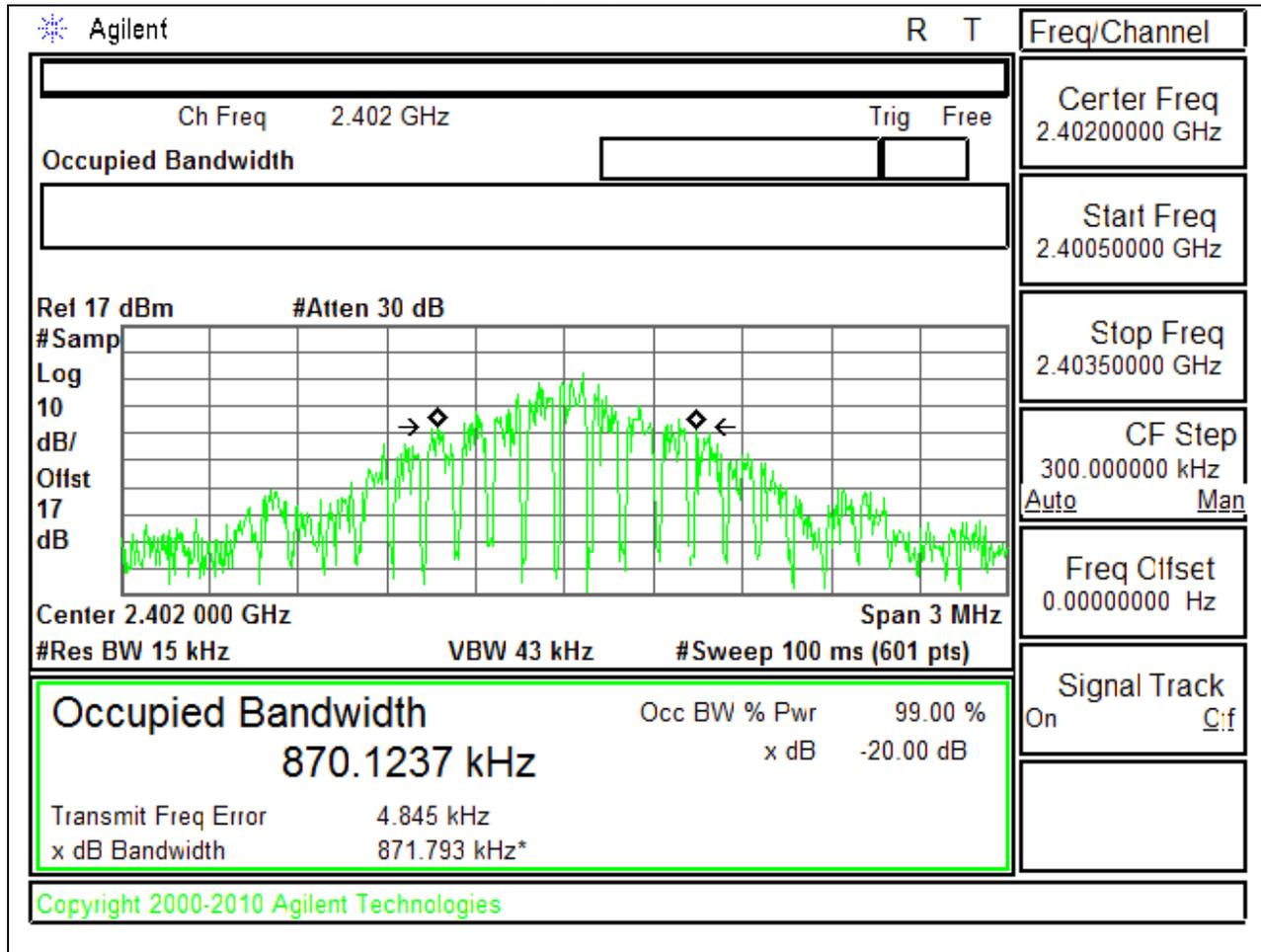


HIGH CHANNEL

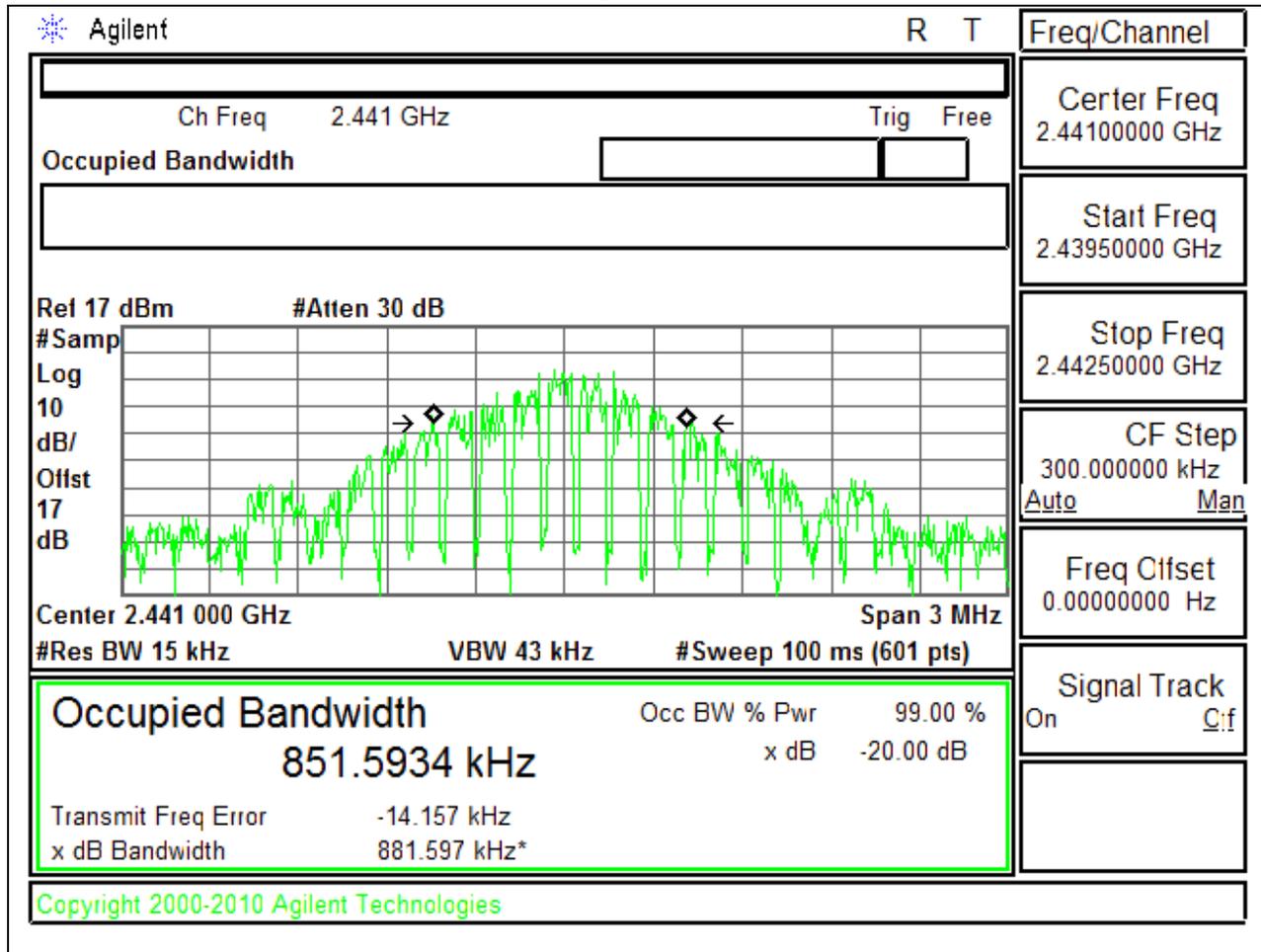


GFSK 99% BANDWIDTH

LOW CHANNEL



MID CHANNEL

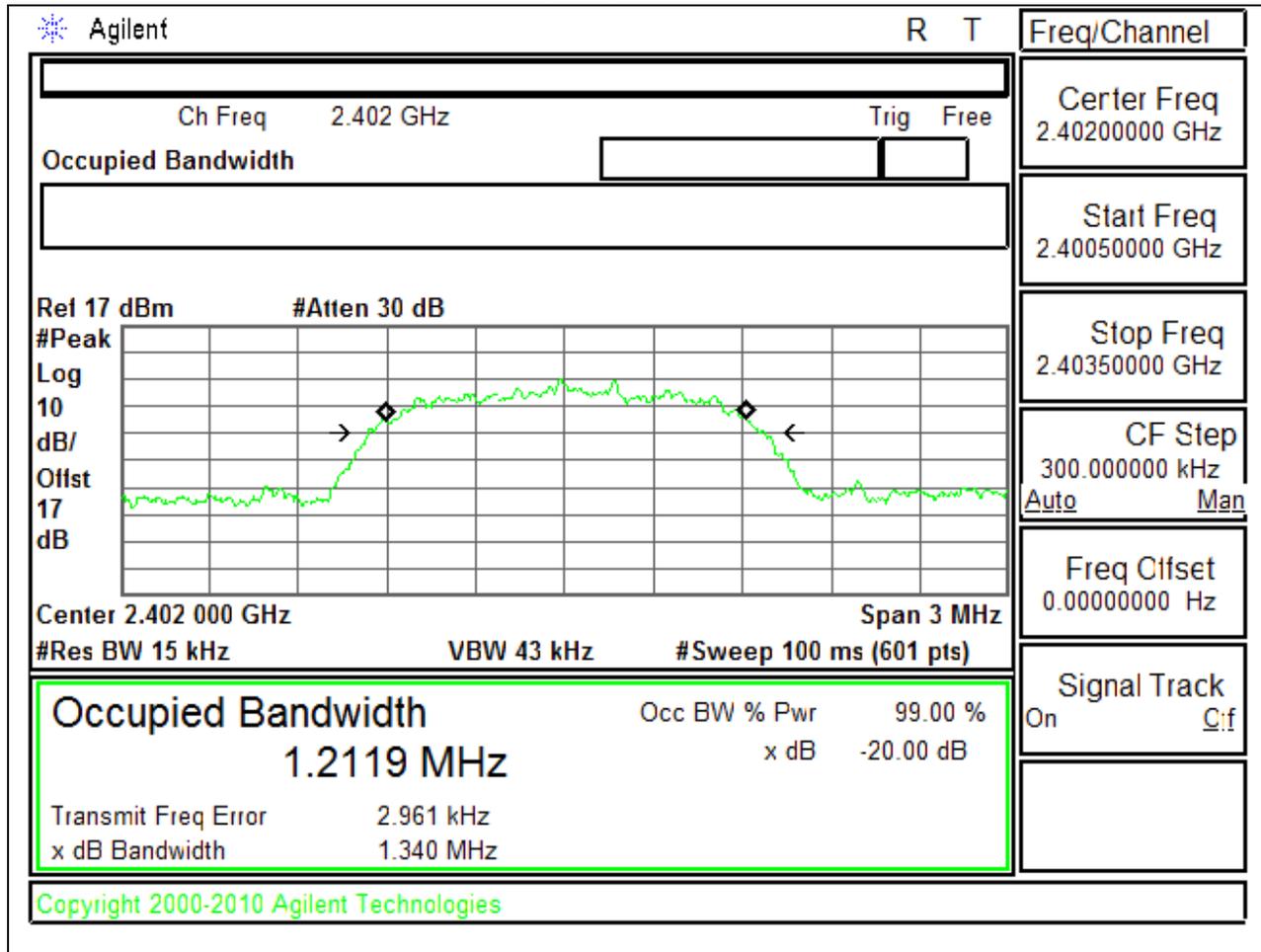


HIGH CHANNEL

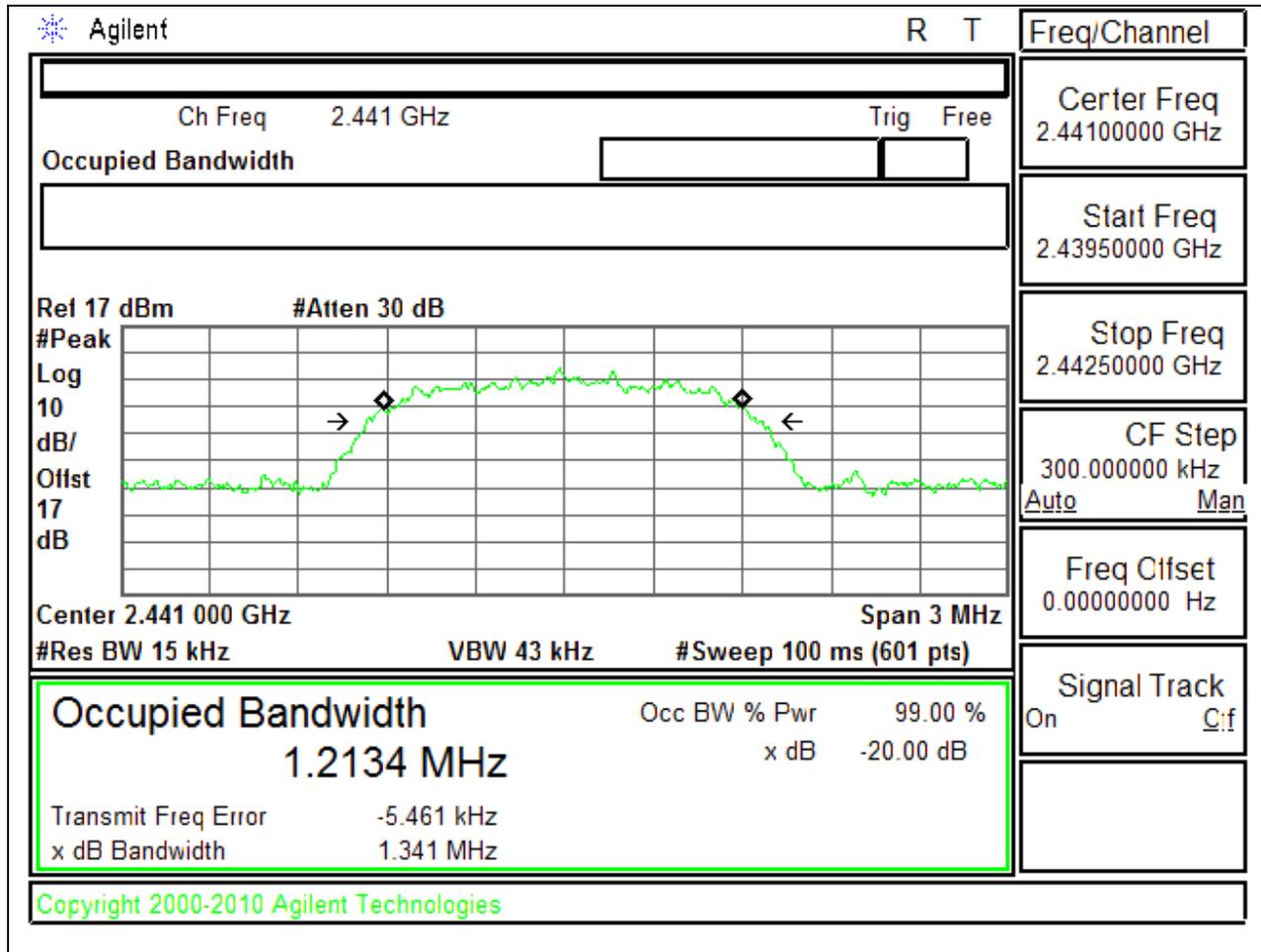
Agilent		R T	Freq/Channel
Ch Freq 2.48 GHz		Trig Free	Center Freq 2.4800000 GHz
Occupied Bandwidth			Start Freq 2.4785000 GHz
Rel 17 dBm #Atten 30 dB			Stop Freq 2.4815000 GHz
# Samp			CF Step 300.000000 kHz Auto Man
Log			Freq Offset 0.0000000 Hz
10 dB/			Signal Track On Cif
Offst			
17 dB			
Center 2.480 000 GHz		Span 3 MHz	
#Res BW 15 kHz	VBW 43 kHz	#Sweep 100 ms (601 pts)	
Occupied Bandwidth 873.7131 kHz		Occ BW % Pwr 99.00 % x dB -20.00 dB	
Transmit Freq Error -18.313 kHz			
x dB Bandwidth 881.926 kHz*			
Copyright 2000-2010 Agilent Technologies			

8PSK 20 dB BANDWIDTH

LOW CHANNEL



MID CHANNEL

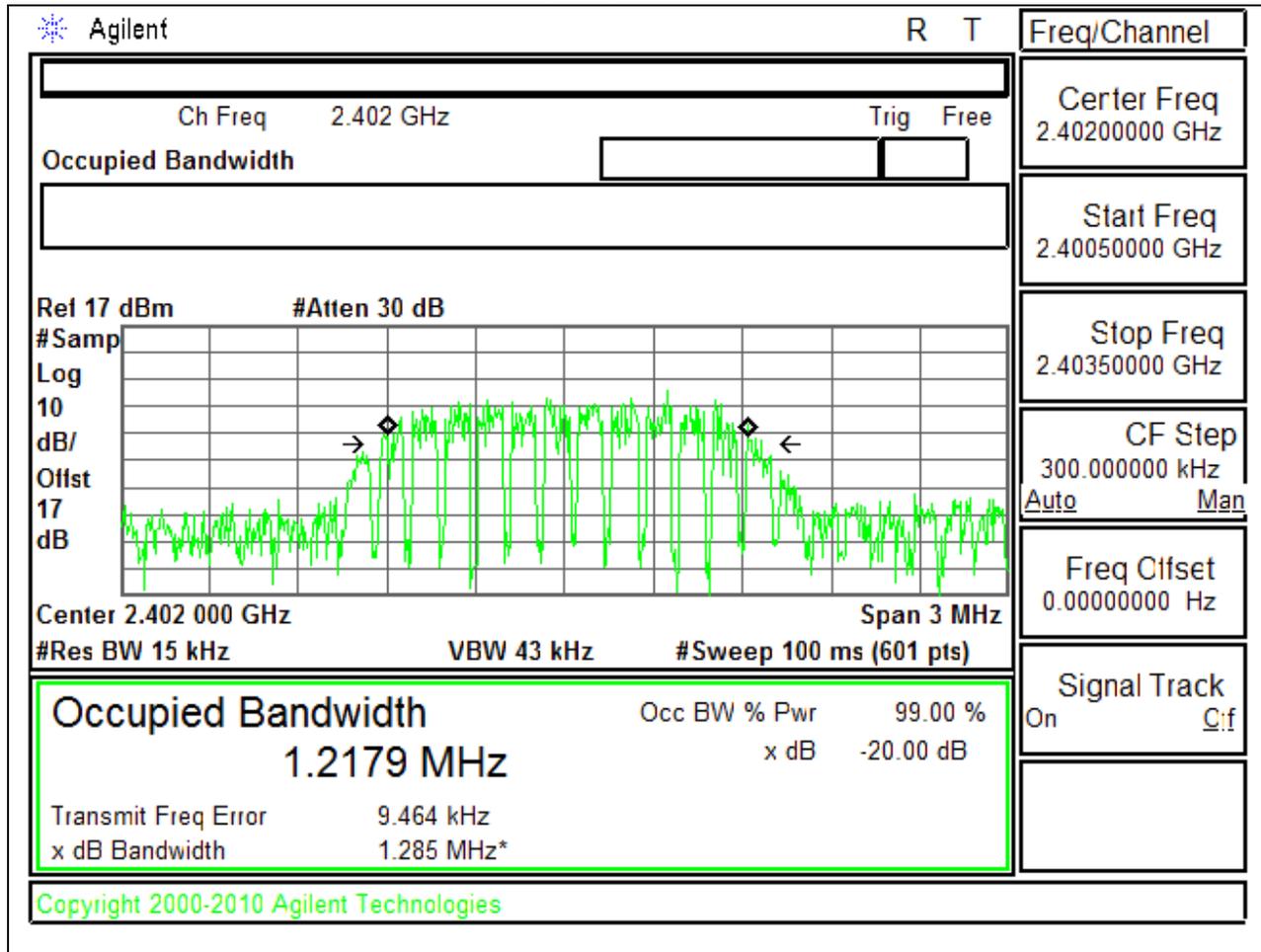


HIGH CHANNEL

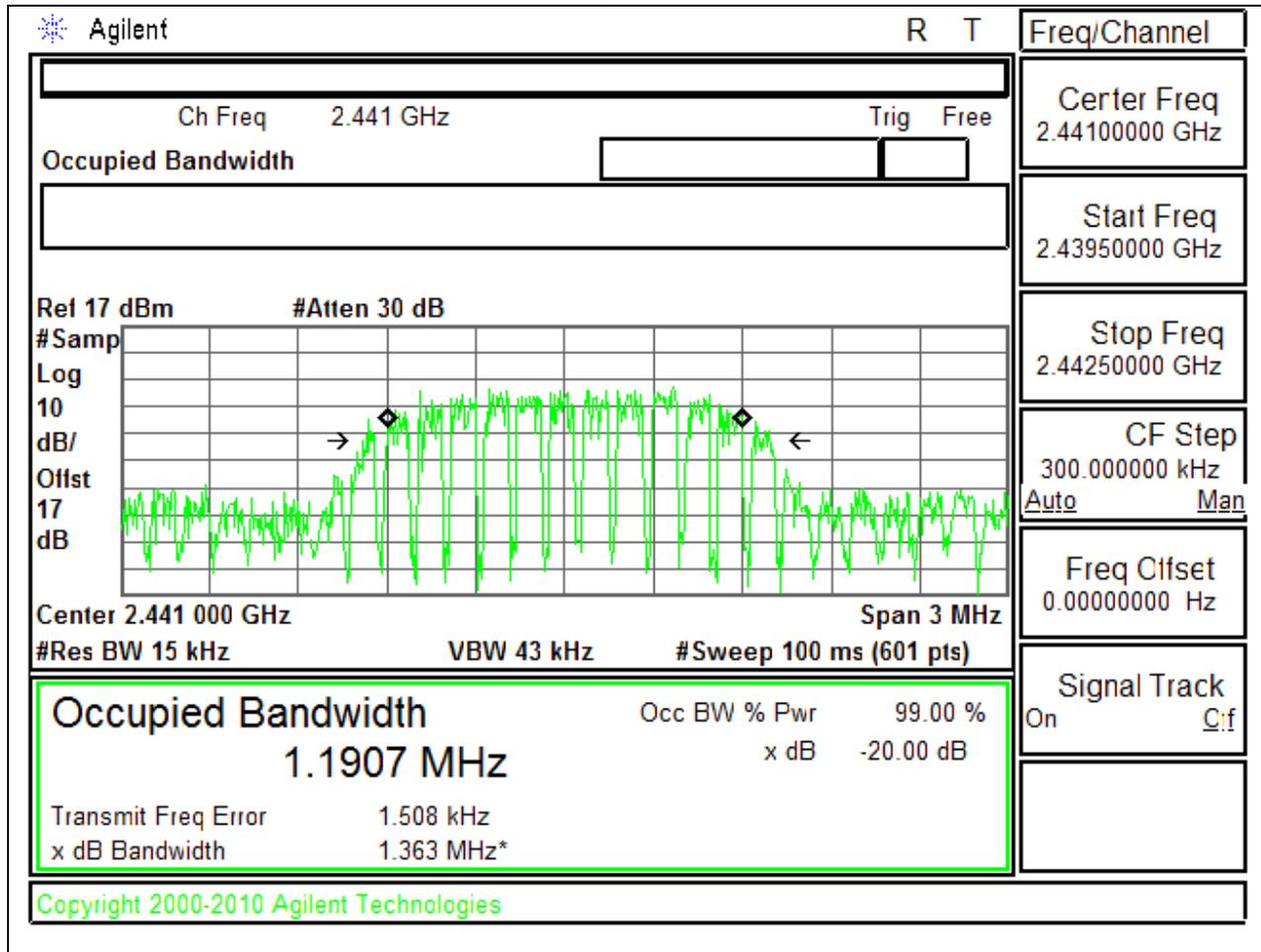
Agilent	R T	Freq/Channel								
Ch Freq 2.48 GHz		Center Freq 2.4800000 GHz								
Occupied Bandwidth		Start Freq 2.4785000 GHz								
Rel 17 dBm #Atten 30 dB		Stop Freq 2.4815000 GHz								
#Peak Log 10 dB/Offst 17 dB		CF Step 300.000000 kHz Auto Man								
		Freq Offset 0.0000000 Hz								
Center 2.480 000 GHz Span 3 MHz		Signal Track On Clf								
#Res BW 15 kHz VBW 43 kHz #Sweep 100 ms (601 pts)										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Occupied Bandwidth</td> <td style="width: 50%;">Occ BW % Pwr 99.00 %</td> </tr> <tr> <td style="text-align: center;">1.2093 MHz</td> <td style="text-align: center;">x dB -20.00 dB</td> </tr> <tr> <td>Transmit Freq Error -14.920 kHz</td> <td></td> </tr> <tr> <td>x dB Bandwidth 1.333 MHz</td> <td></td> </tr> </table>			Occupied Bandwidth	Occ BW % Pwr 99.00 %	1.2093 MHz	x dB -20.00 dB	Transmit Freq Error -14.920 kHz		x dB Bandwidth 1.333 MHz	
Occupied Bandwidth	Occ BW % Pwr 99.00 %									
1.2093 MHz	x dB -20.00 dB									
Transmit Freq Error -14.920 kHz										
x dB Bandwidth 1.333 MHz										
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8PSK 99% BANDWIDTH

LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Agilent		R	T	Freq/Channel	
Ch Freq 2.48 GHz		Trig Free		Center Freq 2.4800000 GHz	
Occupied Bandwidth				Start Freq 2.4785000 GHz	
Rel 17 dBm #Atten 30 dB				Stop Freq 2.4815000 GHz	
# Samp				CF Step 300.00000 kHz Auto Man	
Log				Freq Offset 0.0000000 Hz	
10 dB/				Signal Track On Cif	
Offst 17 dB					
Center 2.480 000 GHz		Span 3 MHz			
#Res BW 15 kHz	VBW 43 kHz	#Sweep 100 ms (601 pts)			
Occupied Bandwidth 1.2309 MHz		Occ BW % Pwr 99.00 % x dB -20.00 dB			
Transmit Freq Error -14.198 kHz					
x dB Bandwidth 1.354 MHz*					
Copyright 2000-2010 Agilent Technologies					

8.2. HOPPING FREQUENCY SEPARATION

LIMIT

FCC §15.247 (a) (1)

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.

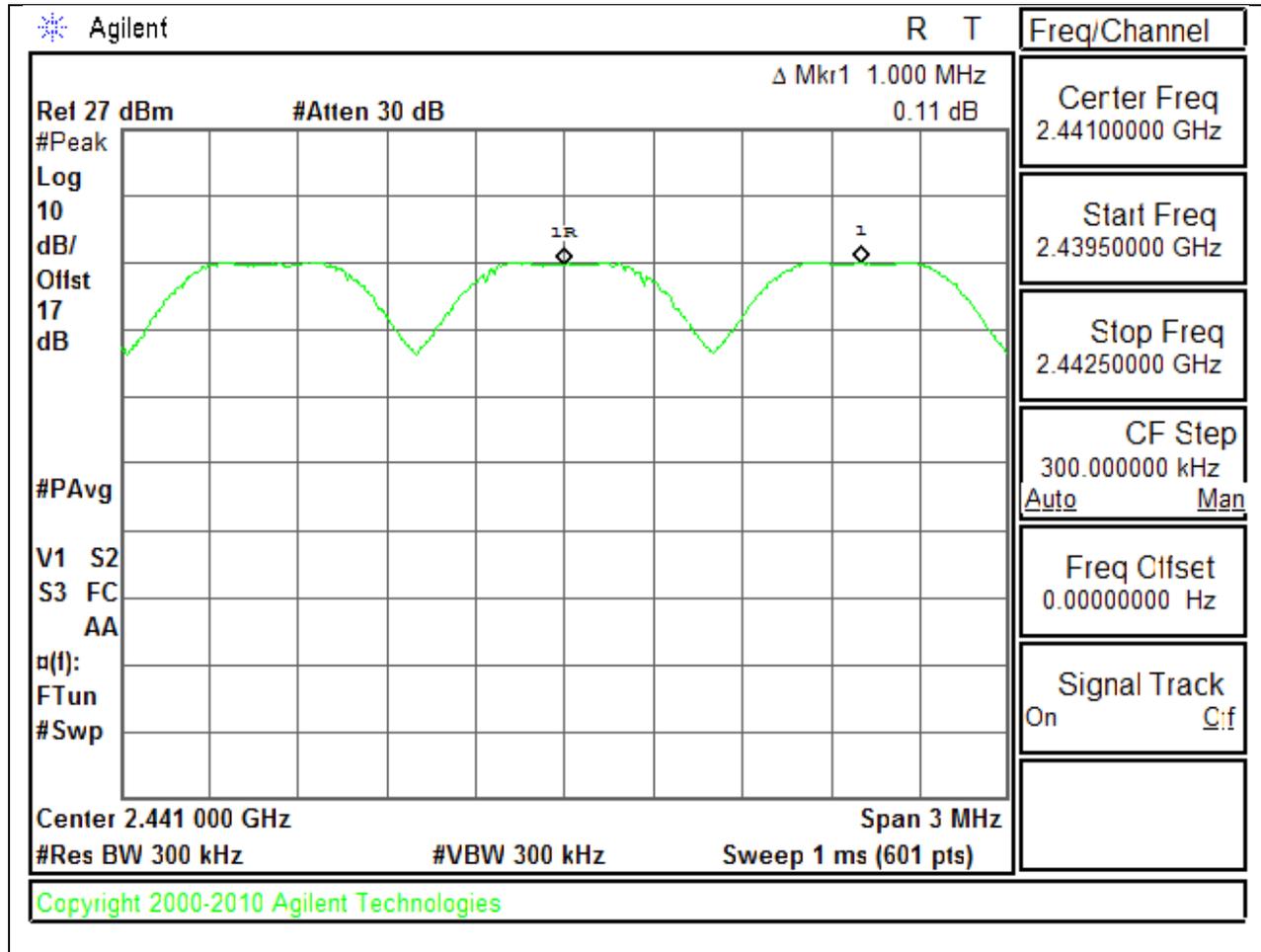
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than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

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

TEST PROCEDURE

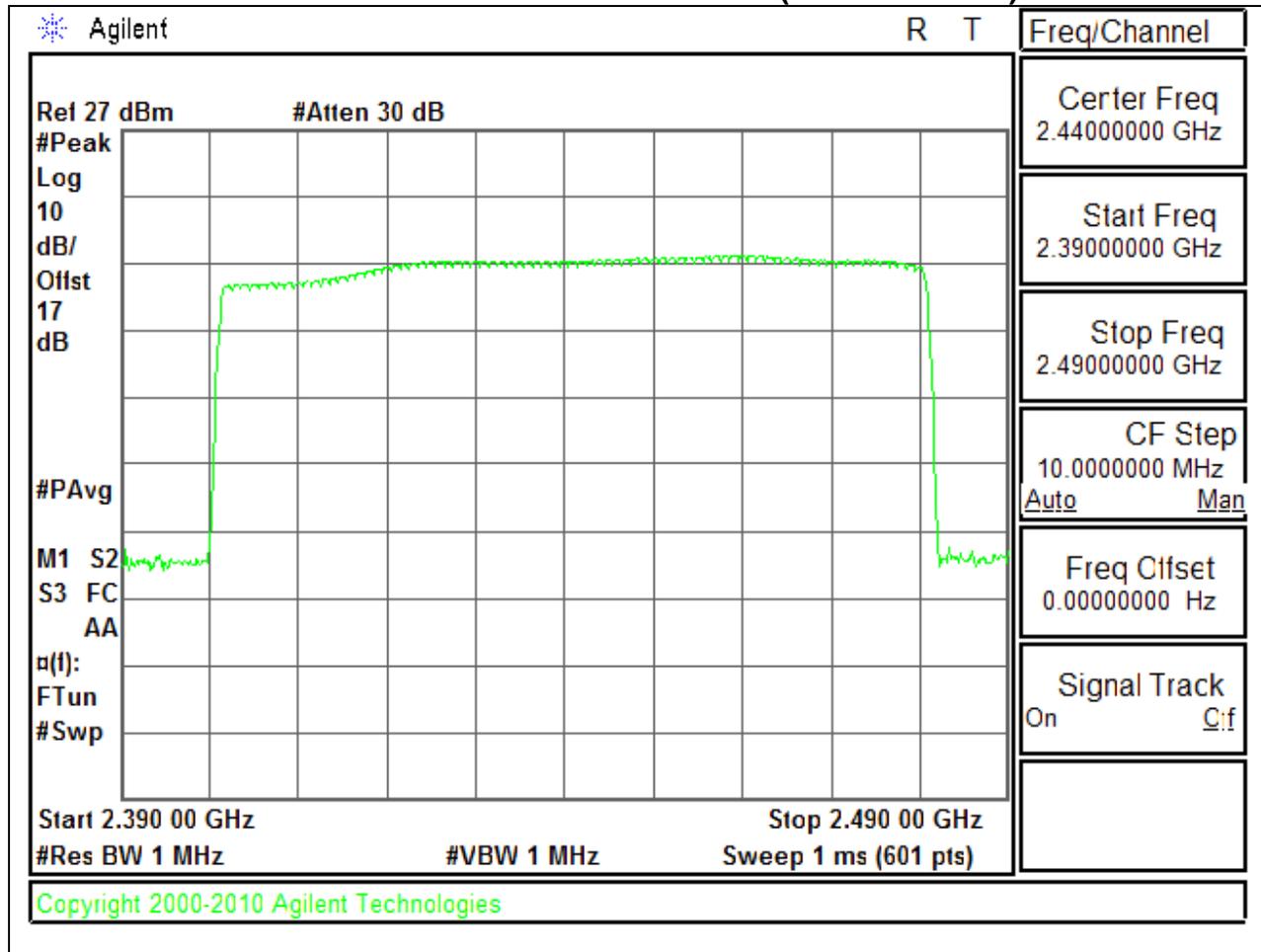
DA 00-705: The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

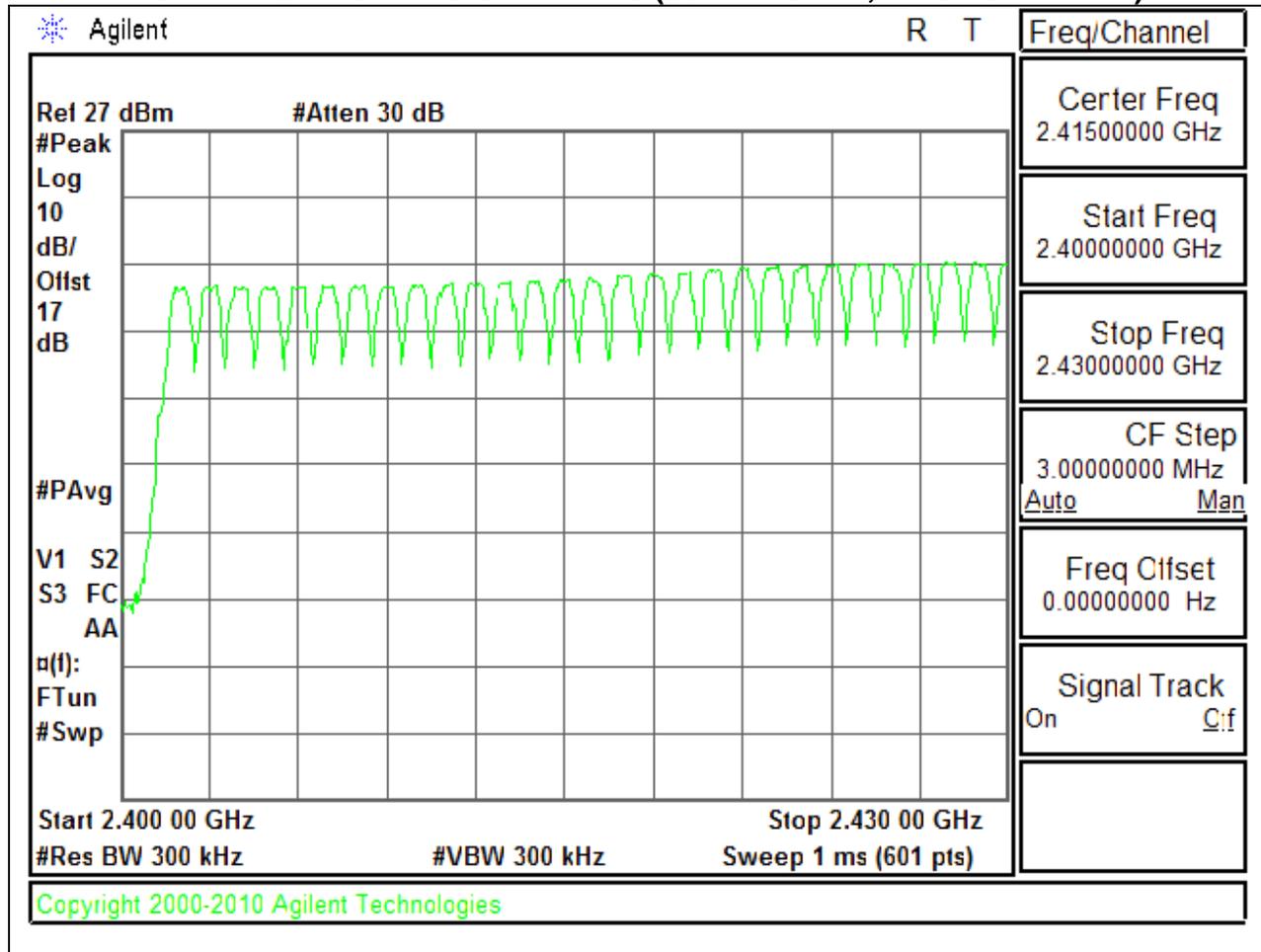
Normal Mode: 79 Channels observed.

NUMBER OF HOPPING CHANNELS PLOTS

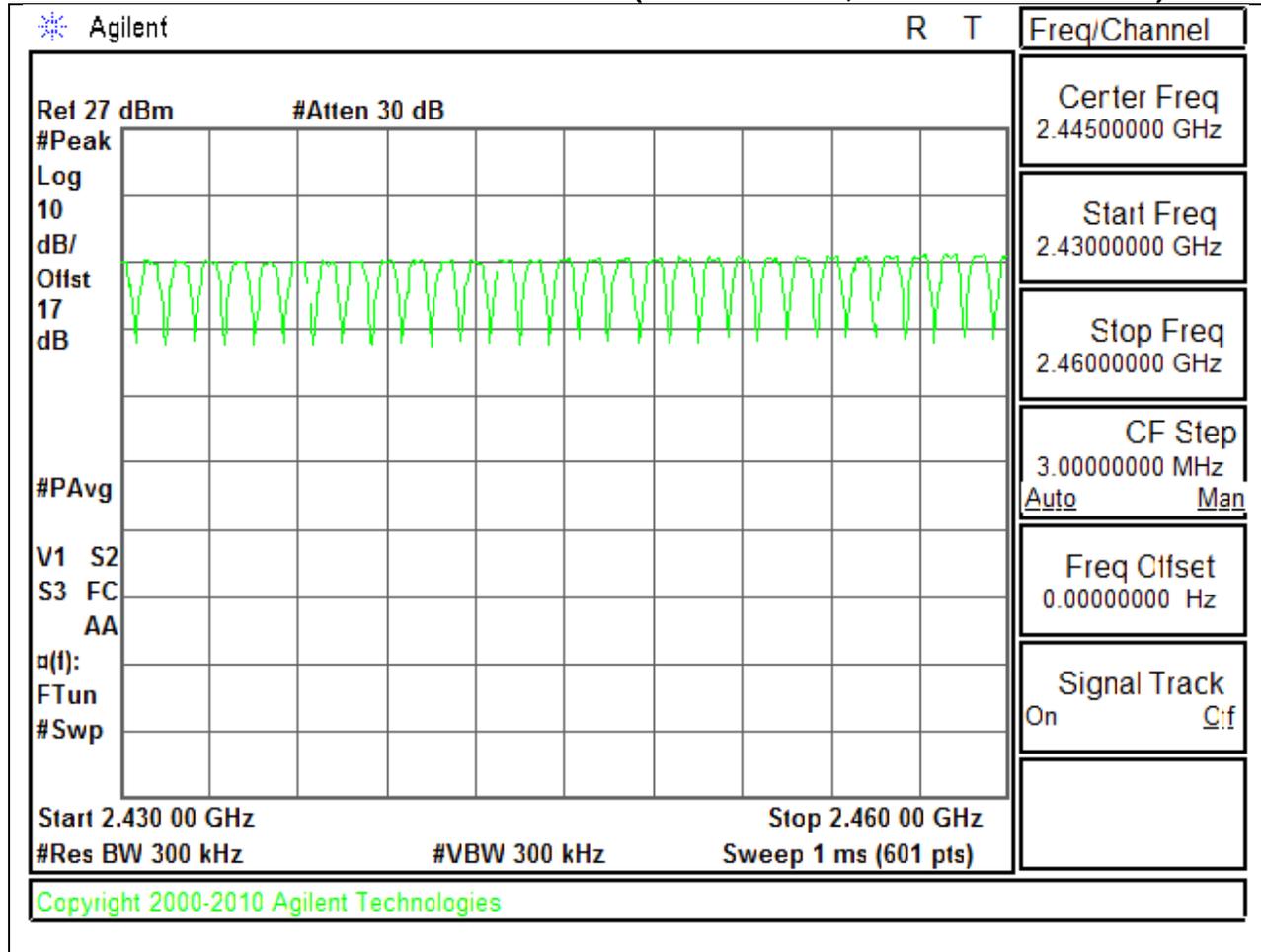
NUMBER OF HOPPING CHANNELS (100 MHZ SPAN)



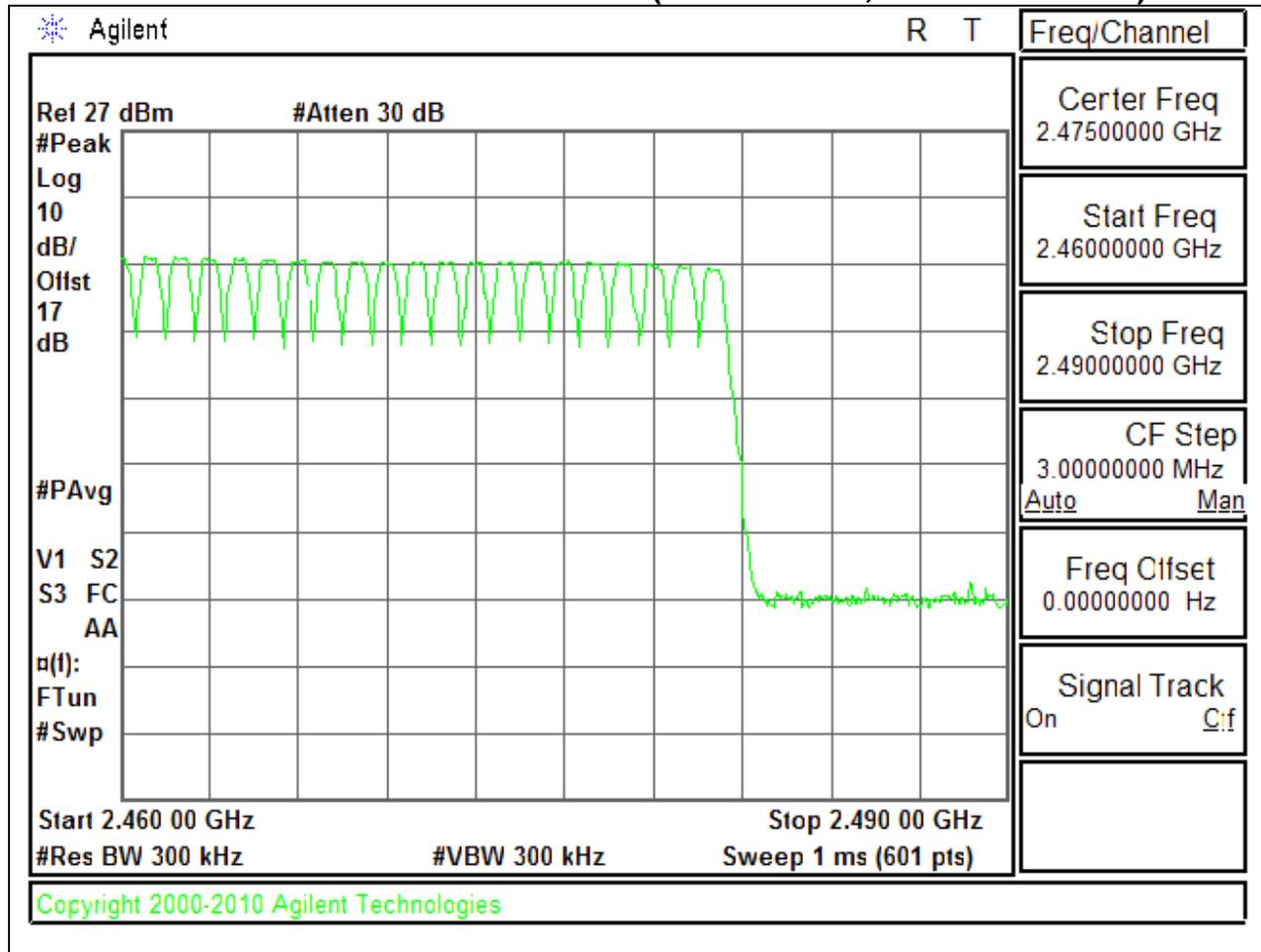
NUMBER OF HOPPING CHANNELS (30 MHZ SPAN, FIRST SEGMENT)



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)

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.

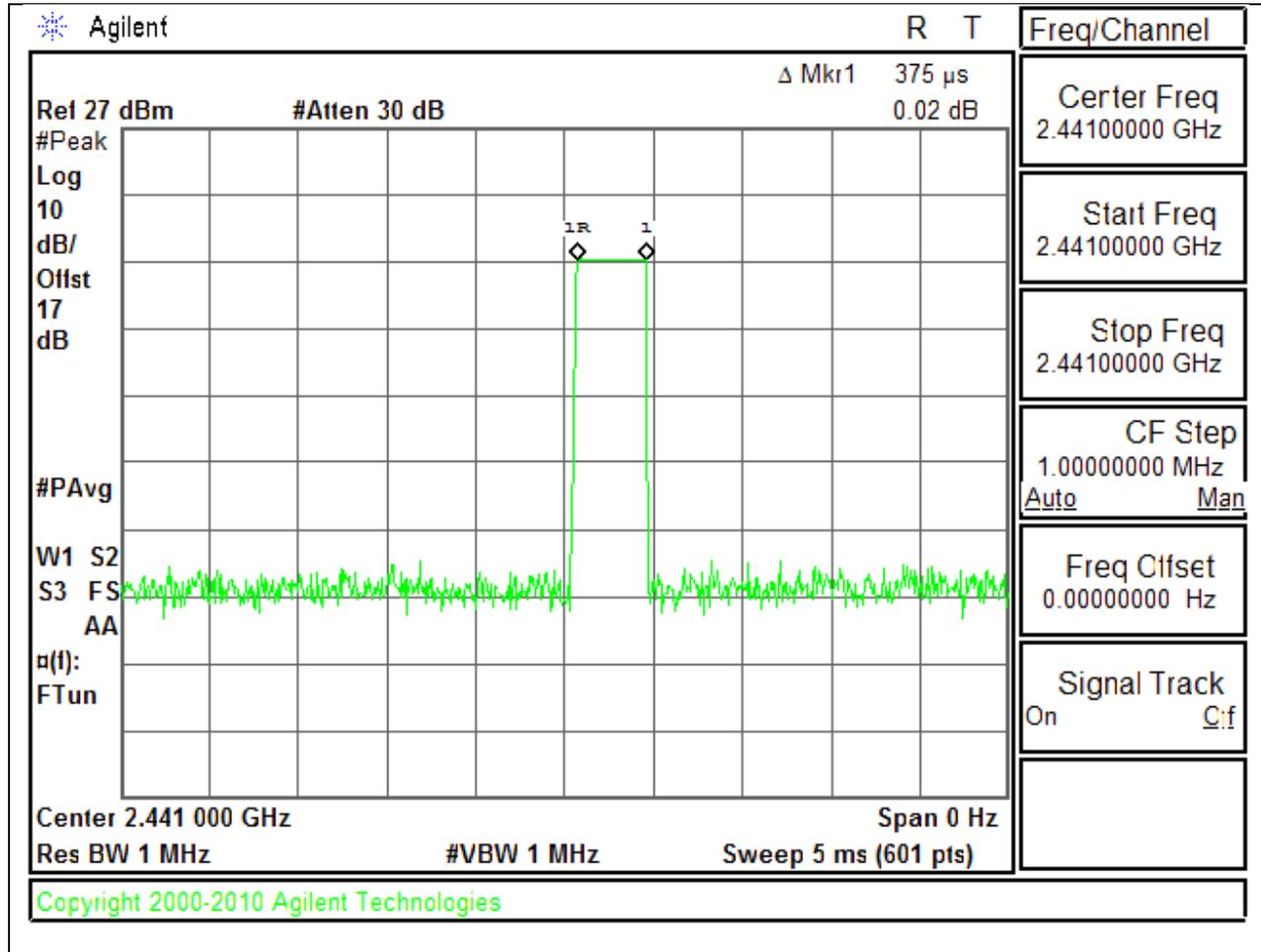
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{ pulse width}$.

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

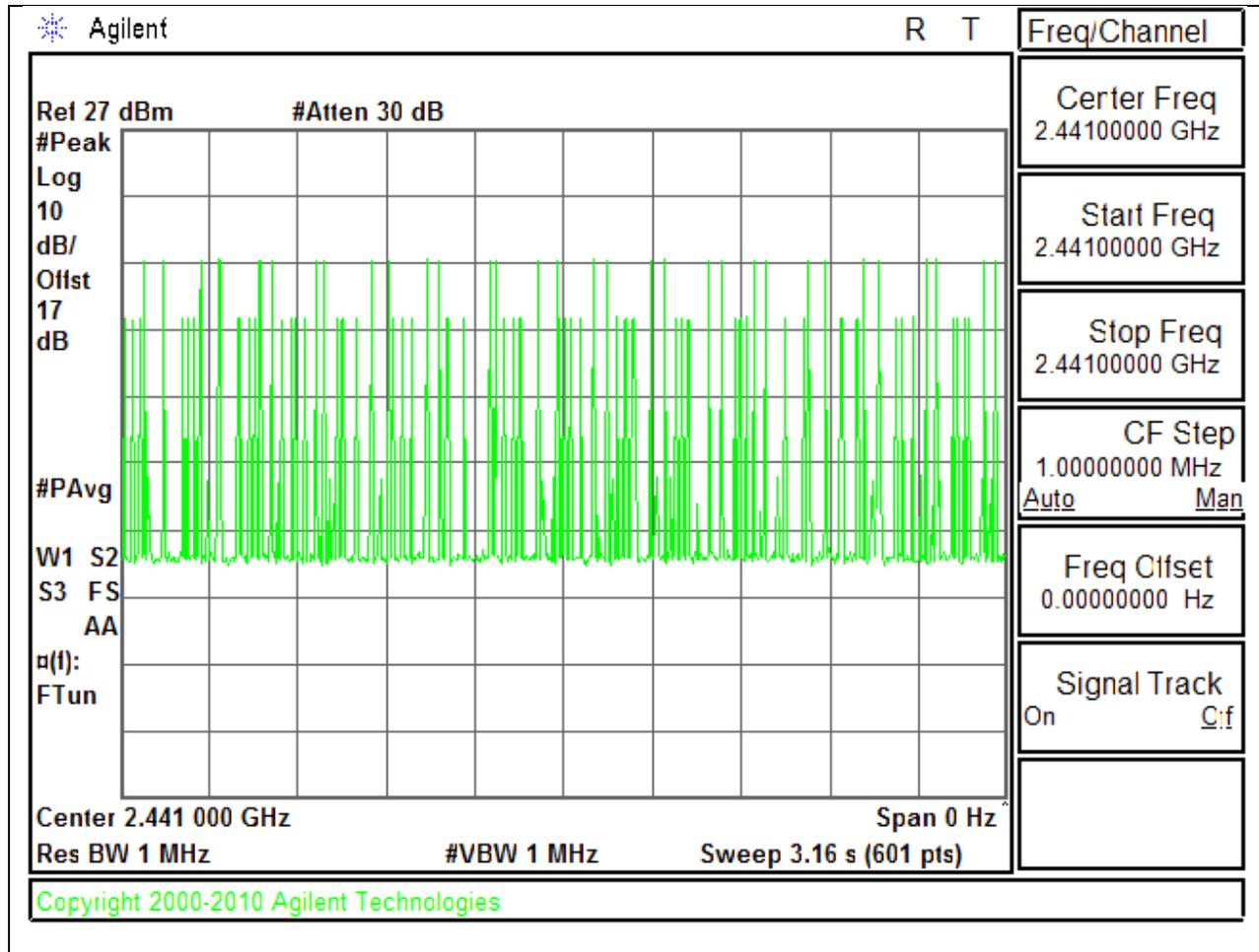
RESULTS

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	32	0.12	0.4	-0.28
DH3	1.642	22	0.36	0.4	-0.04
DH5	2.883	13	0.37	0.4	-0.03
DH Packet					
	Pulse Width (msec)	Number of Pulses in 0.8 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
GFSK AFH Mode					
DH1	0.375	8	0.03	0.4	-0.37
DH3	1.642	5.5	0.09	0.4	-0.31
DH5	2.883	3.25	0.09	0.4	-0.31

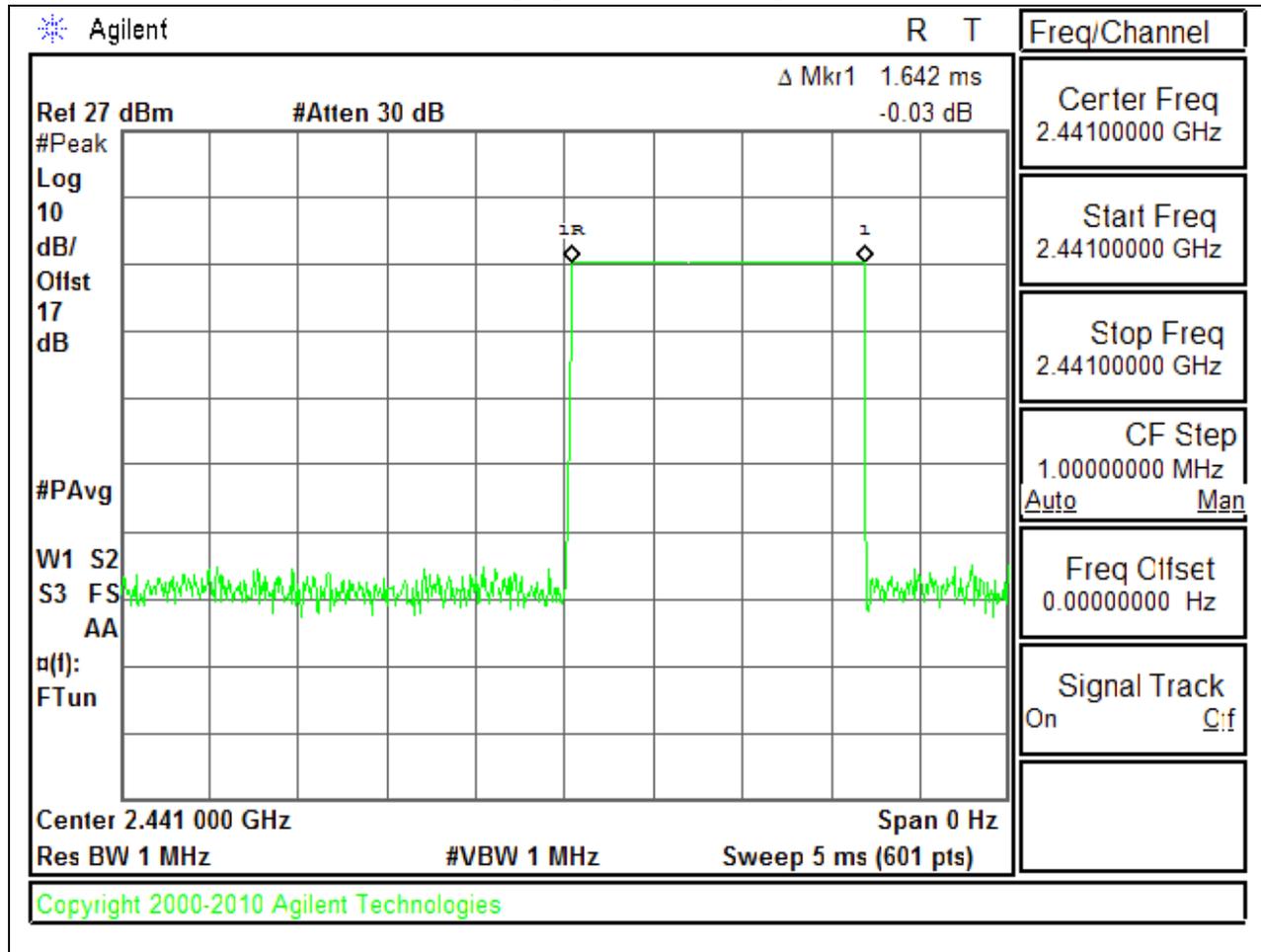
PULSE WIDTH - DH1



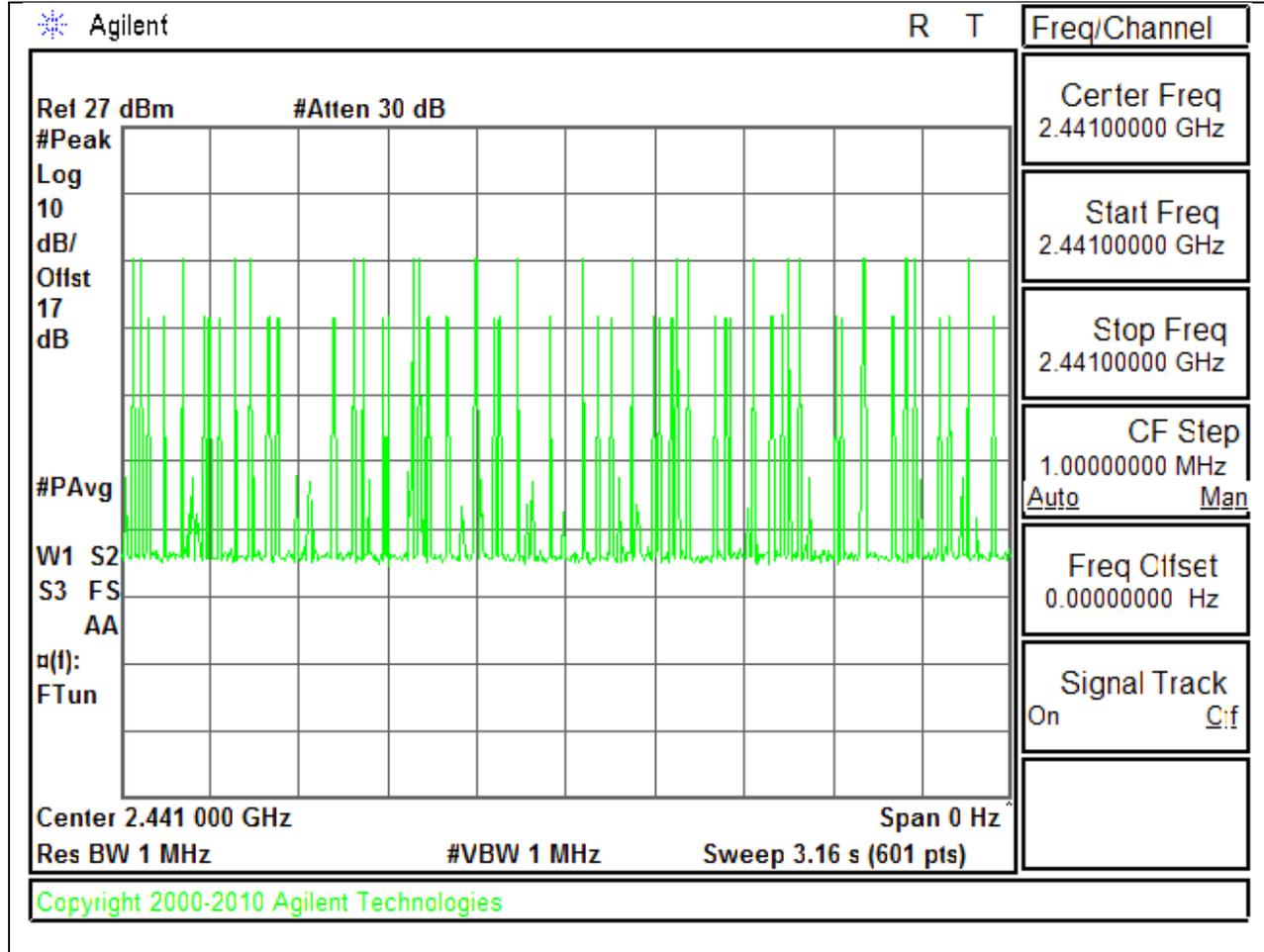
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH1



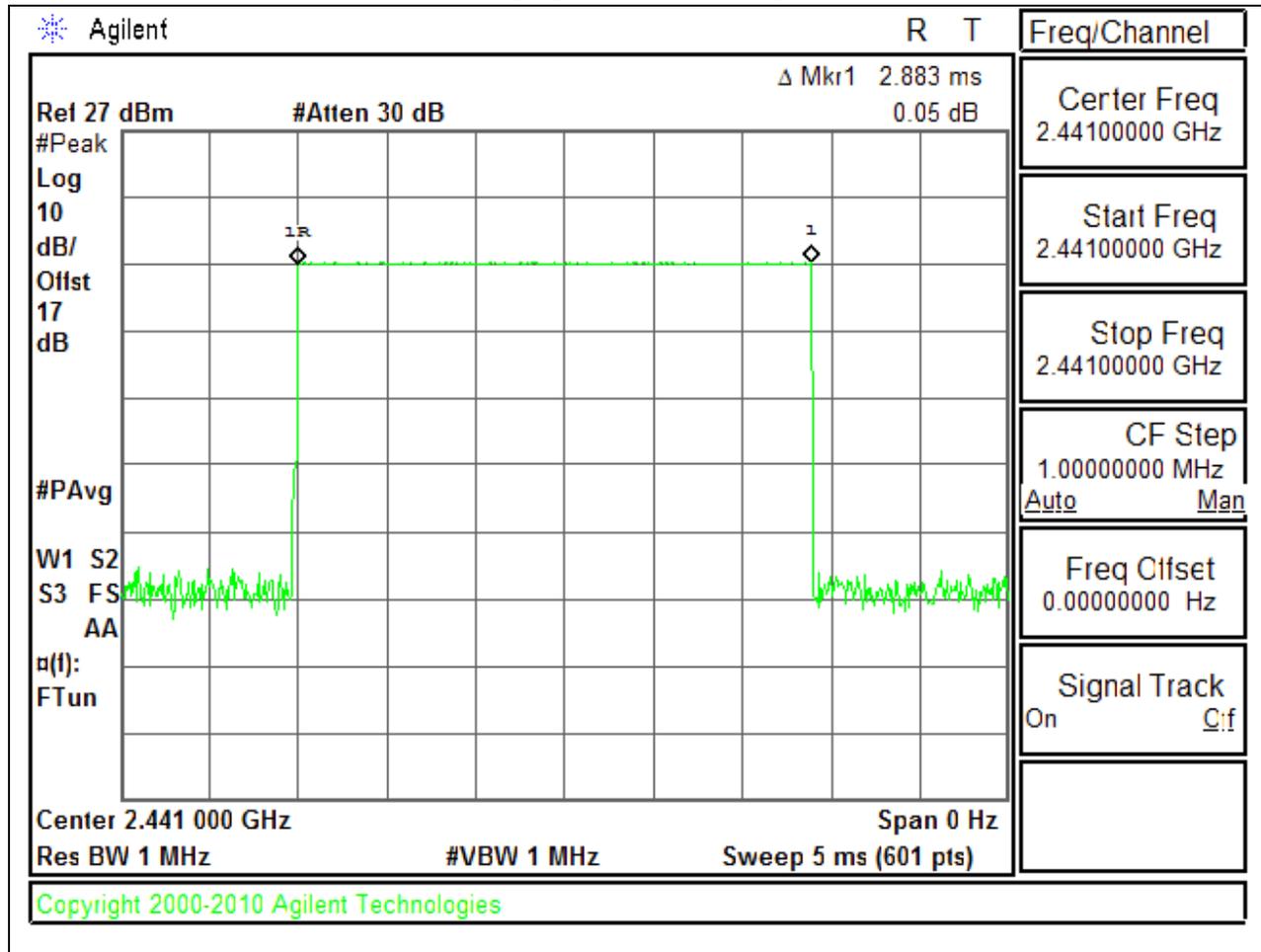
PULSE WIDTH - DH3



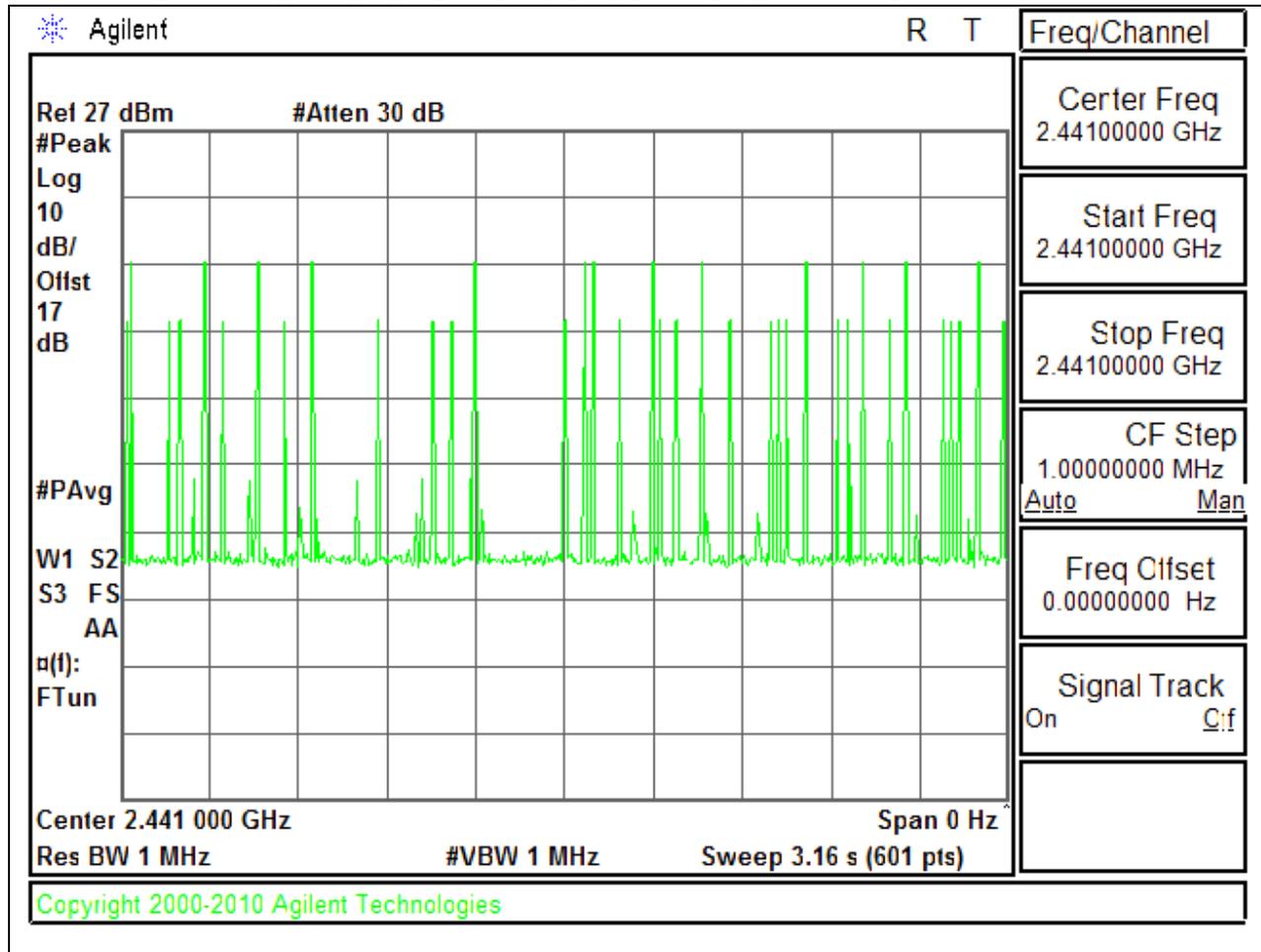
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH3



PULSE WIDTH - DH5



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH5



8.5. OUTPUT POWER

LIMIT

§15.247 (b) (1)

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

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	3.64	21	-17.36
Middle	2441	7.27	21	-13.73
High	2480	6.41	21	-14.59
Worst		7.27		-13.73

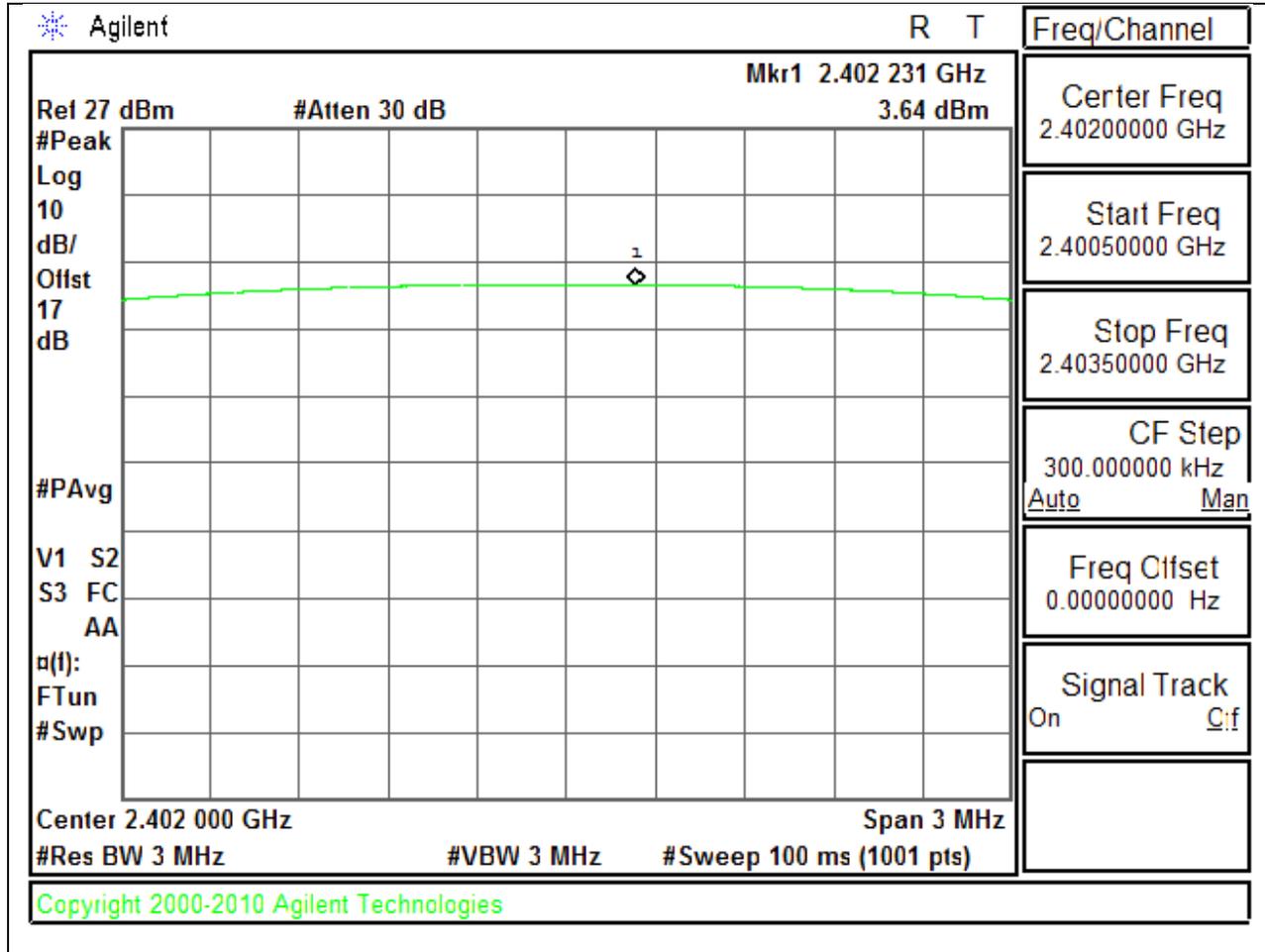
8.5.2. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	5.27	21	-15.73
Middle	2441	9.01	21	-11.99
High	2480	8.04	21	-12.96
Worst		9.01		-11.99

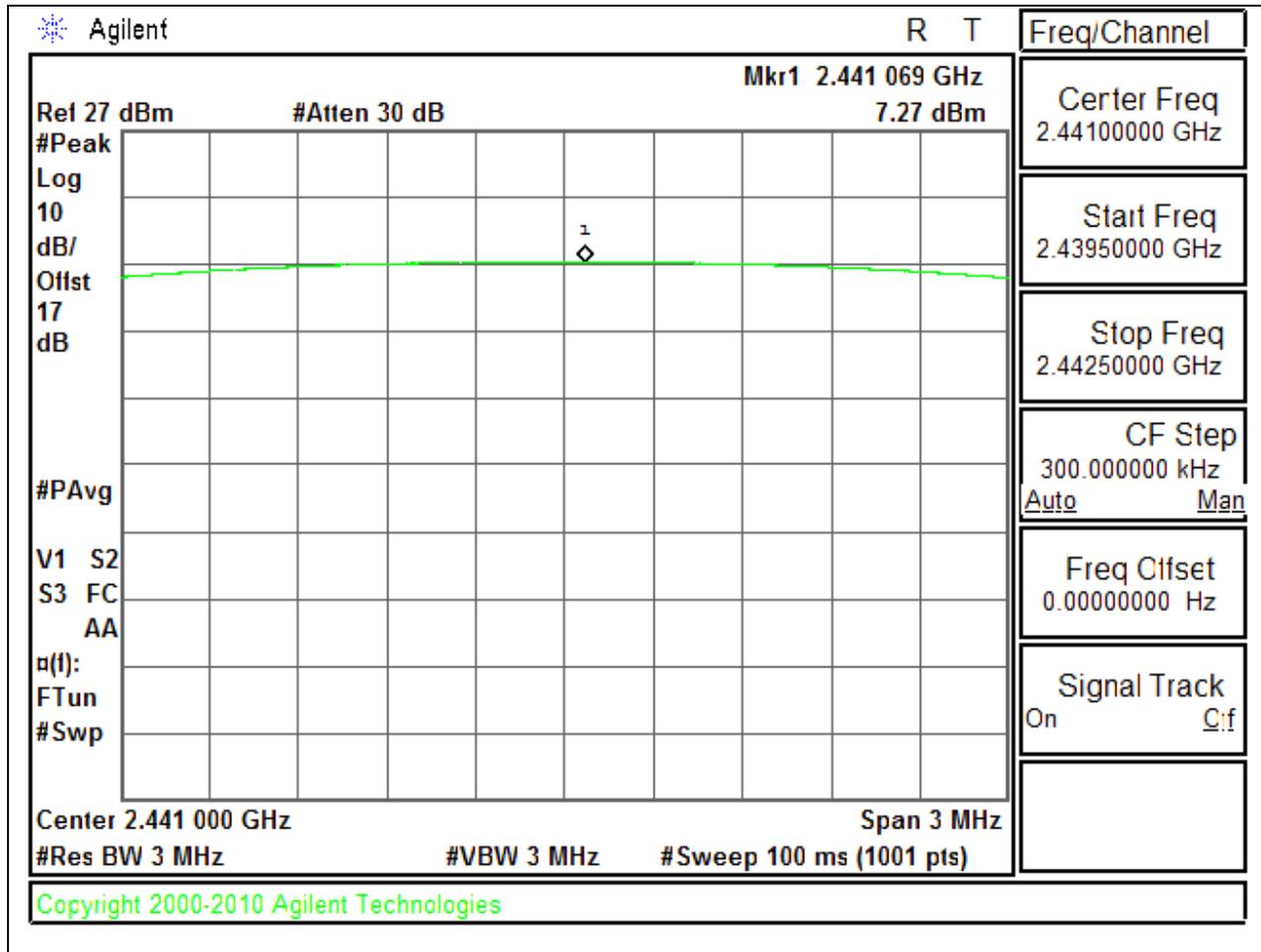
8.5.3. OUTPUT POWER PLOTS

GFSK OUTPUT POWER

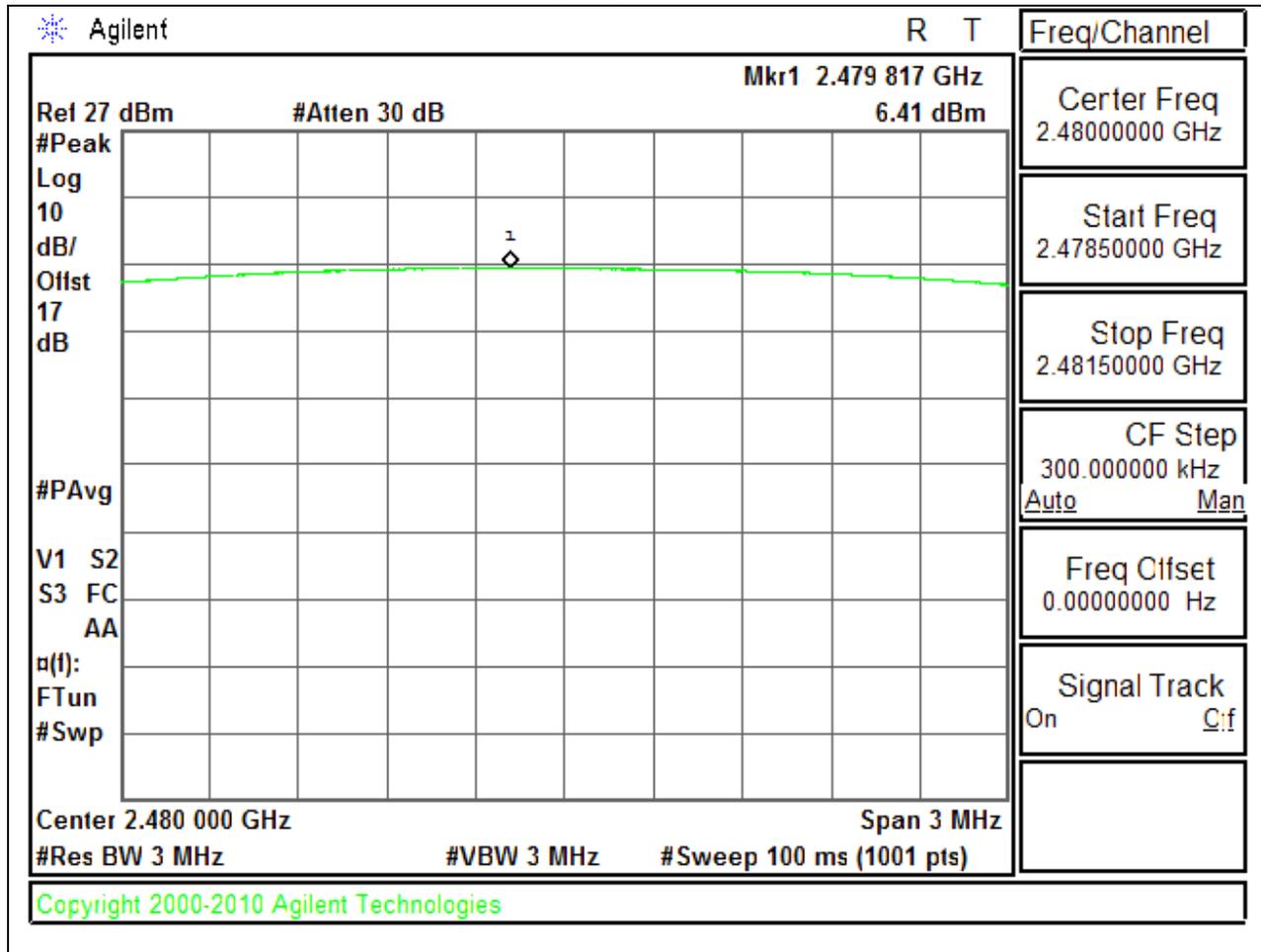
LOW CHANNEL



MID CHANNEL

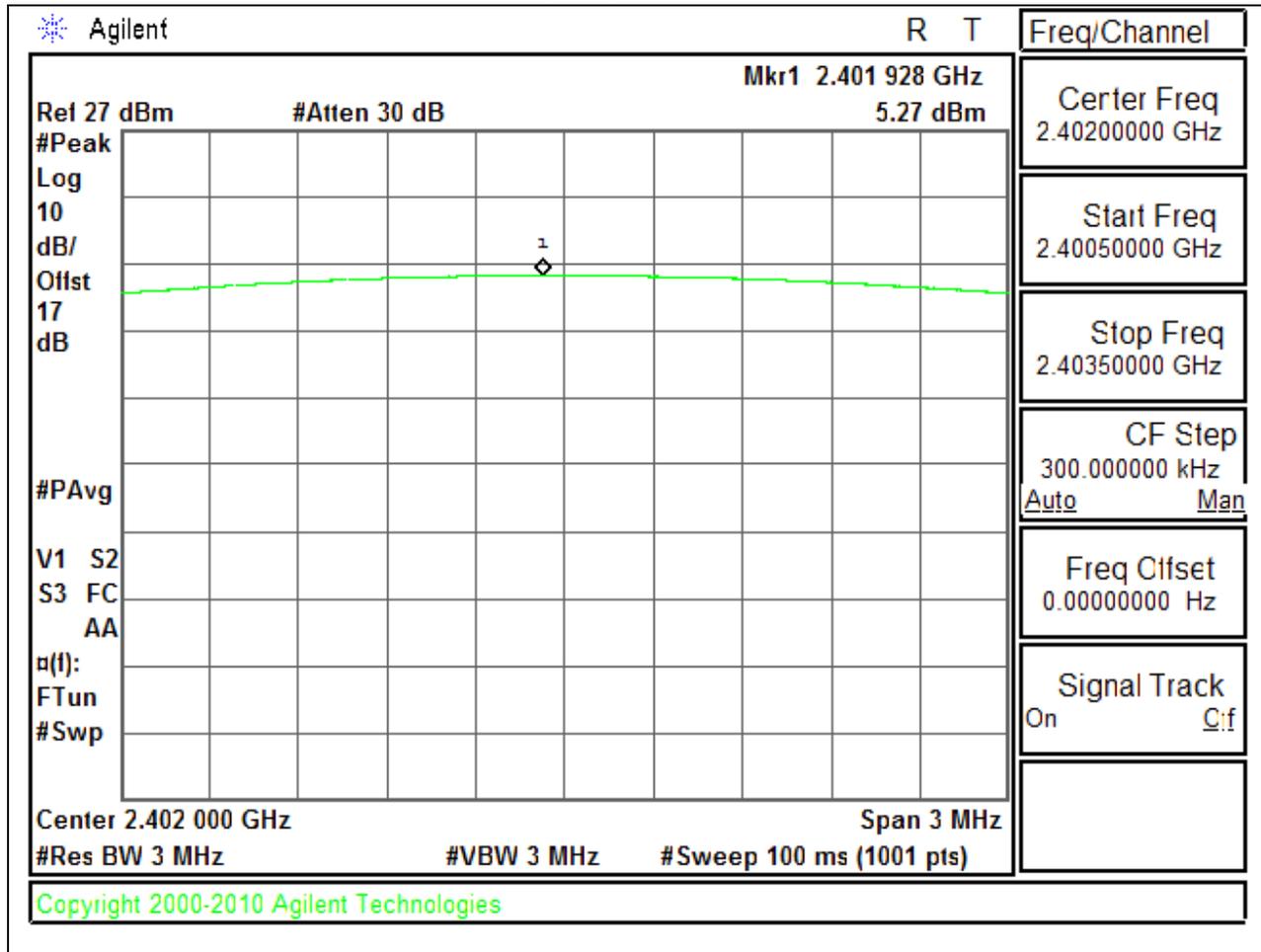


HIGH CHANNEL

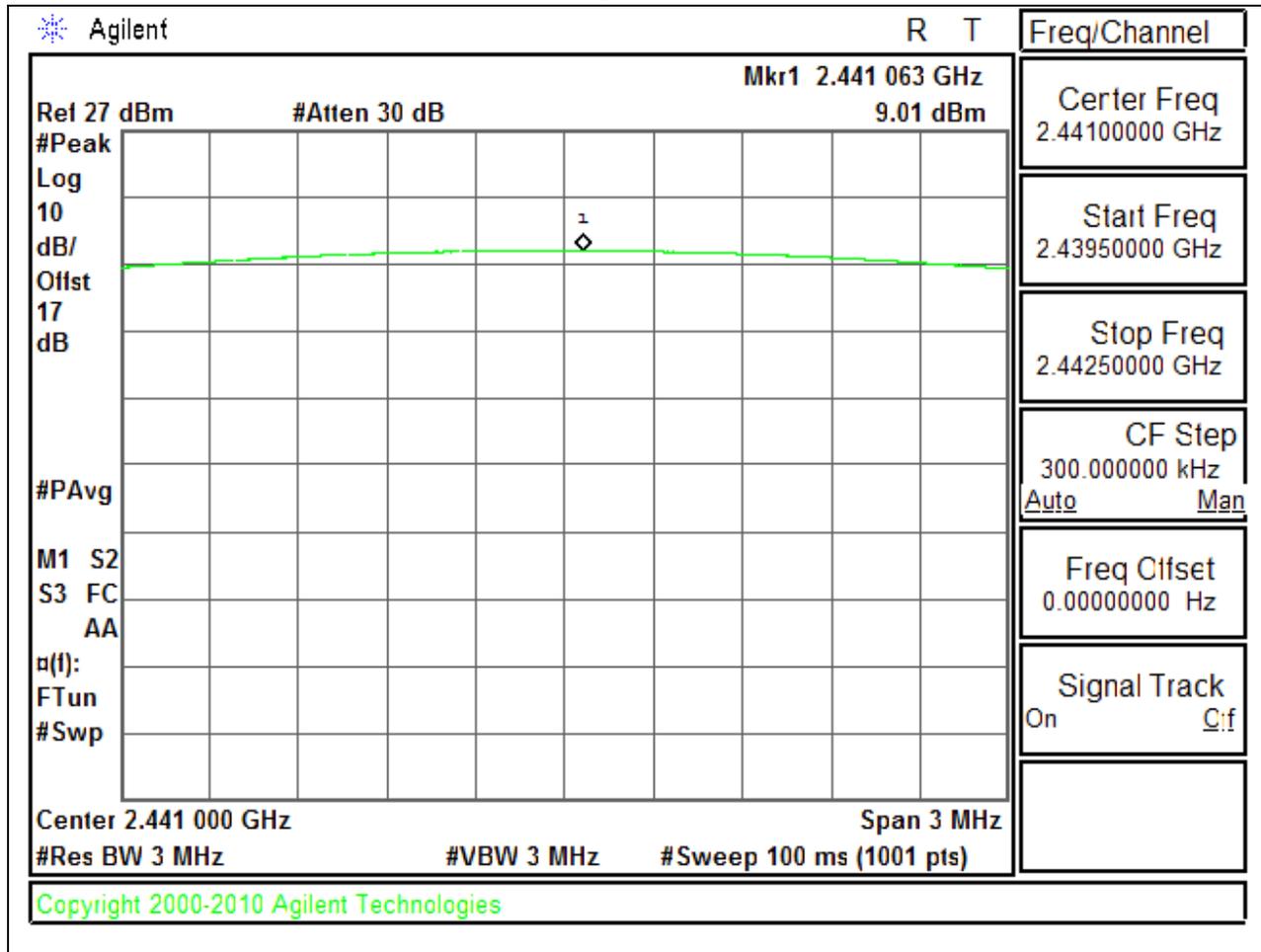


8PSK OUTPUT POWER

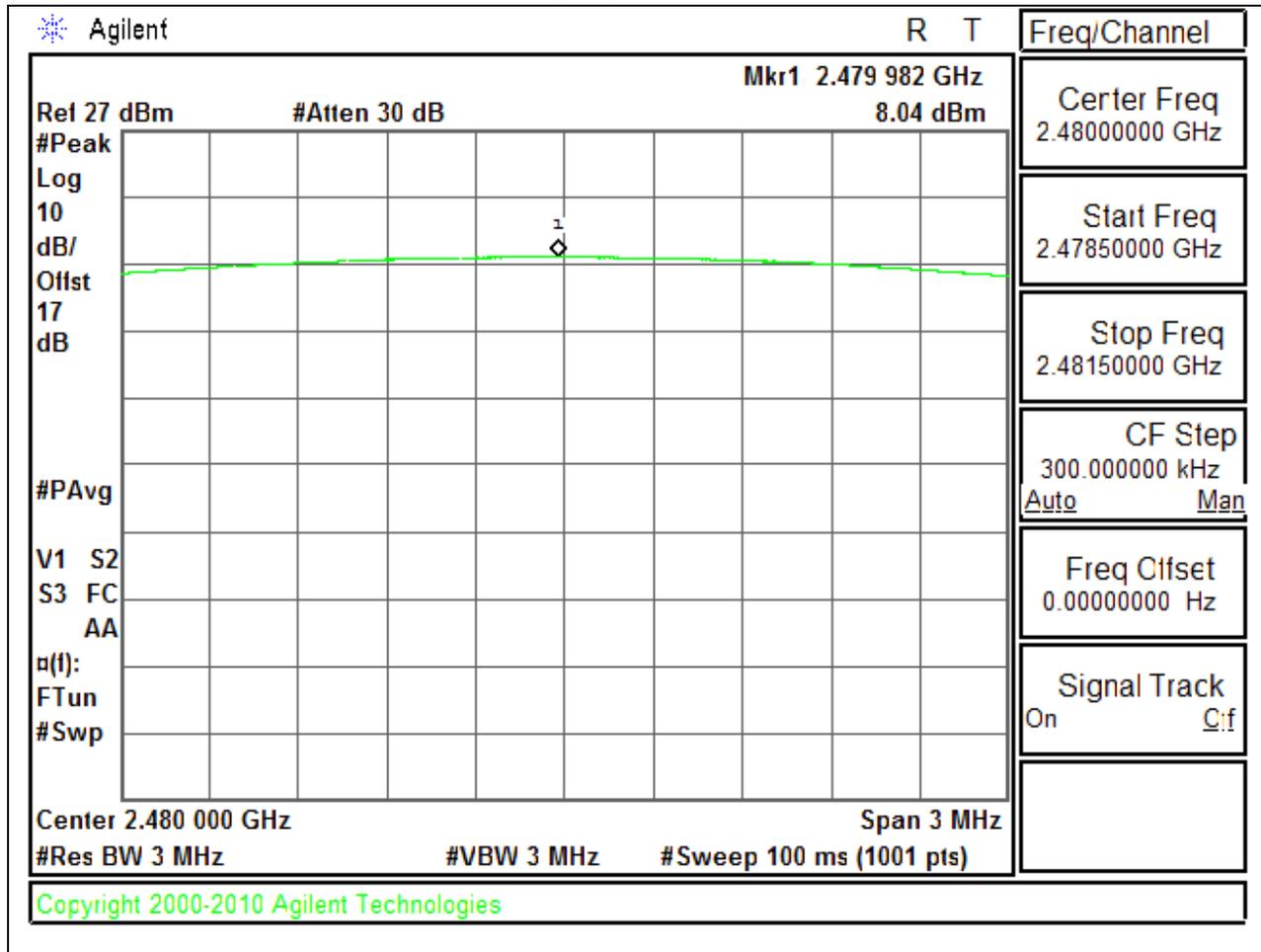
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.6. AVERAGE POWER

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

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

RESULTS

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.

8.6.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	3.3
Middle	2441	6.2
High	2480	4.8
Worst		6.2

8.6.2. DATA RATE PI/4-DQPSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	6.00
Middle	2441	5.90
High	2480	4.30
Worst		6.00

8.6.3. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	3.4
Middle	2441	7.4
High	2480	6.5
Worst		7.4

8.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

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.

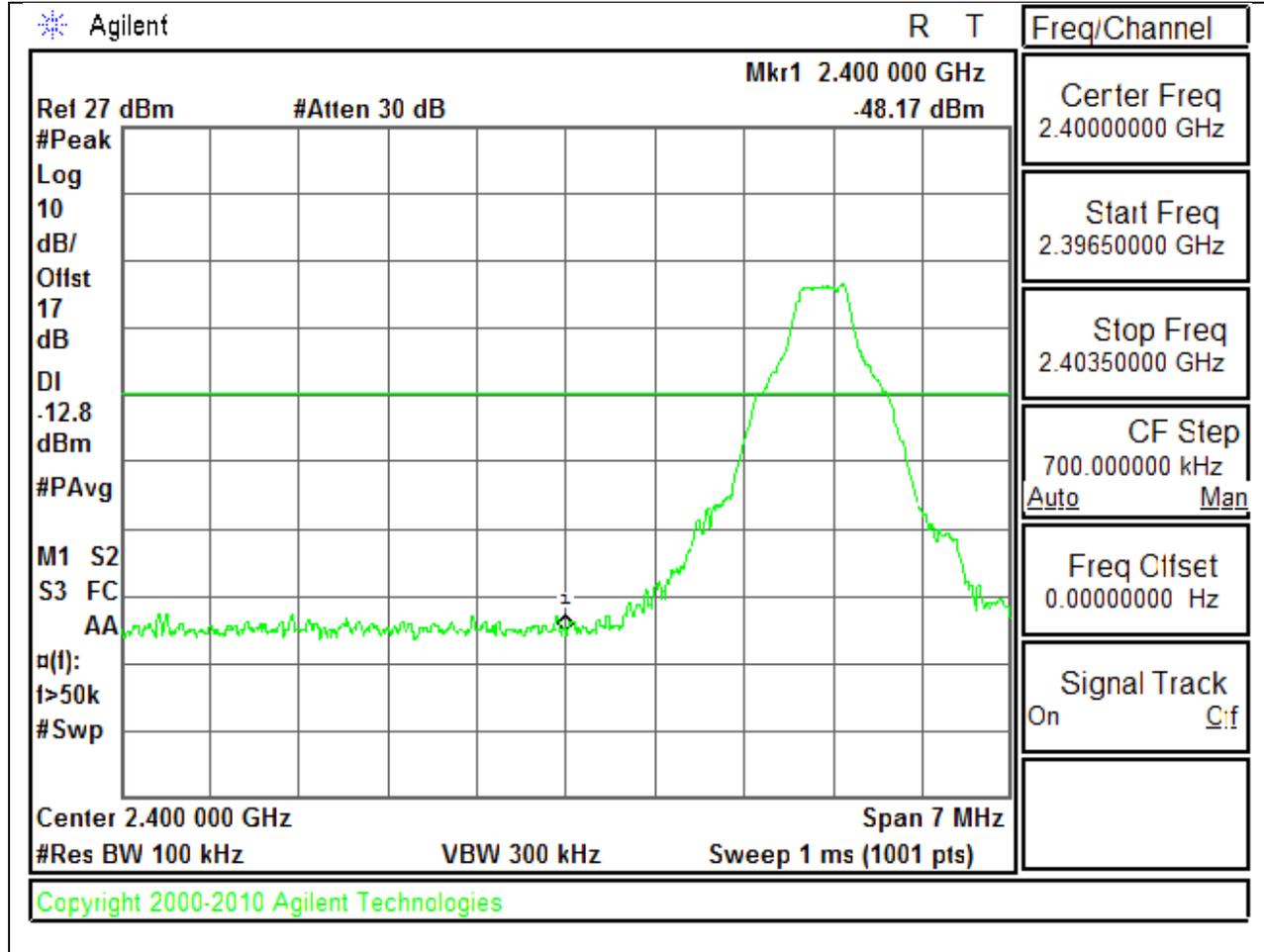
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

RESULTS

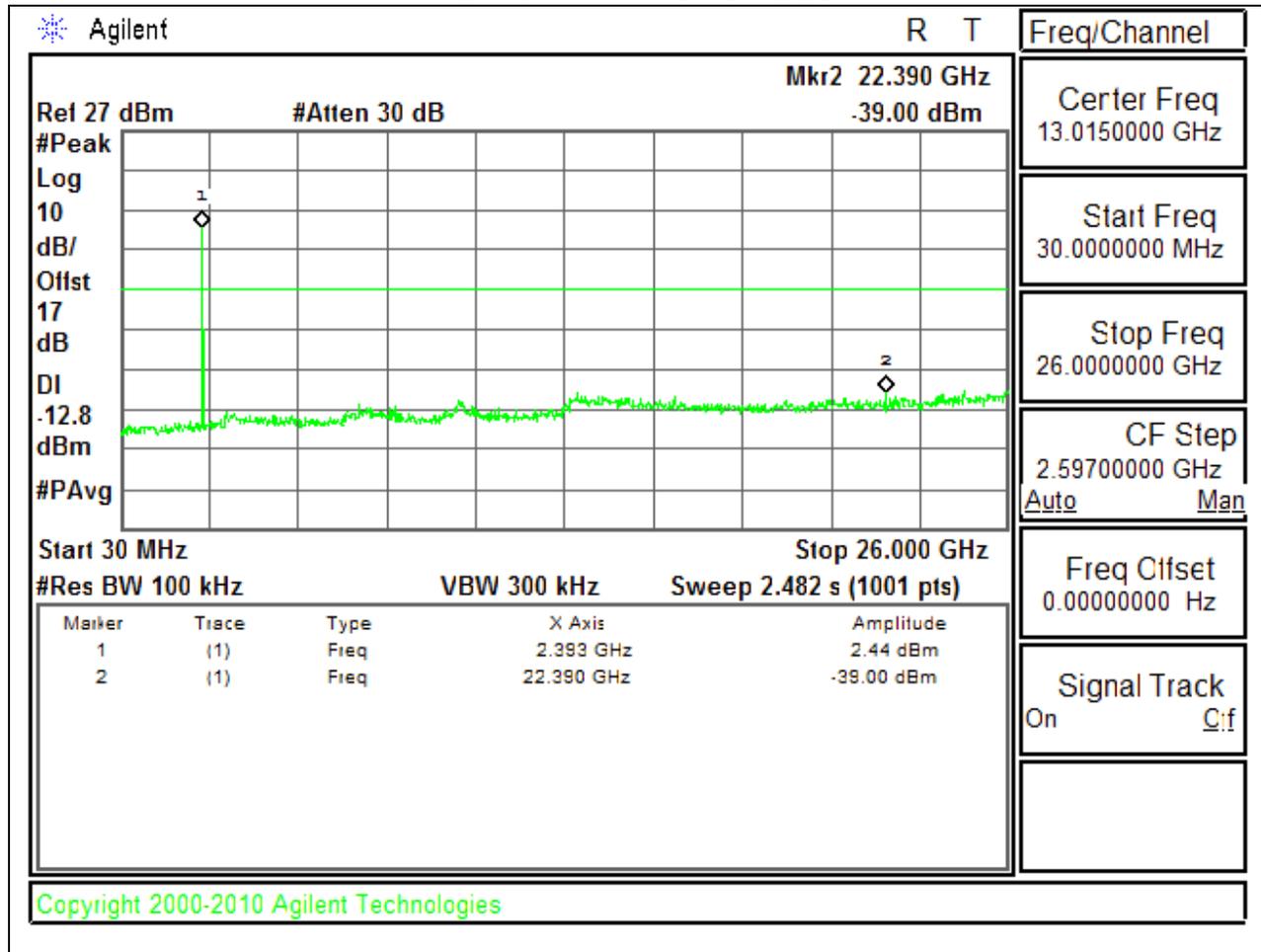
8.7.1. BASIC DATA RATE GFSK MODULATION

SPURIOUS EMISSIONS, LOW CHANNEL

LOW CHANNEL BANDEDGE

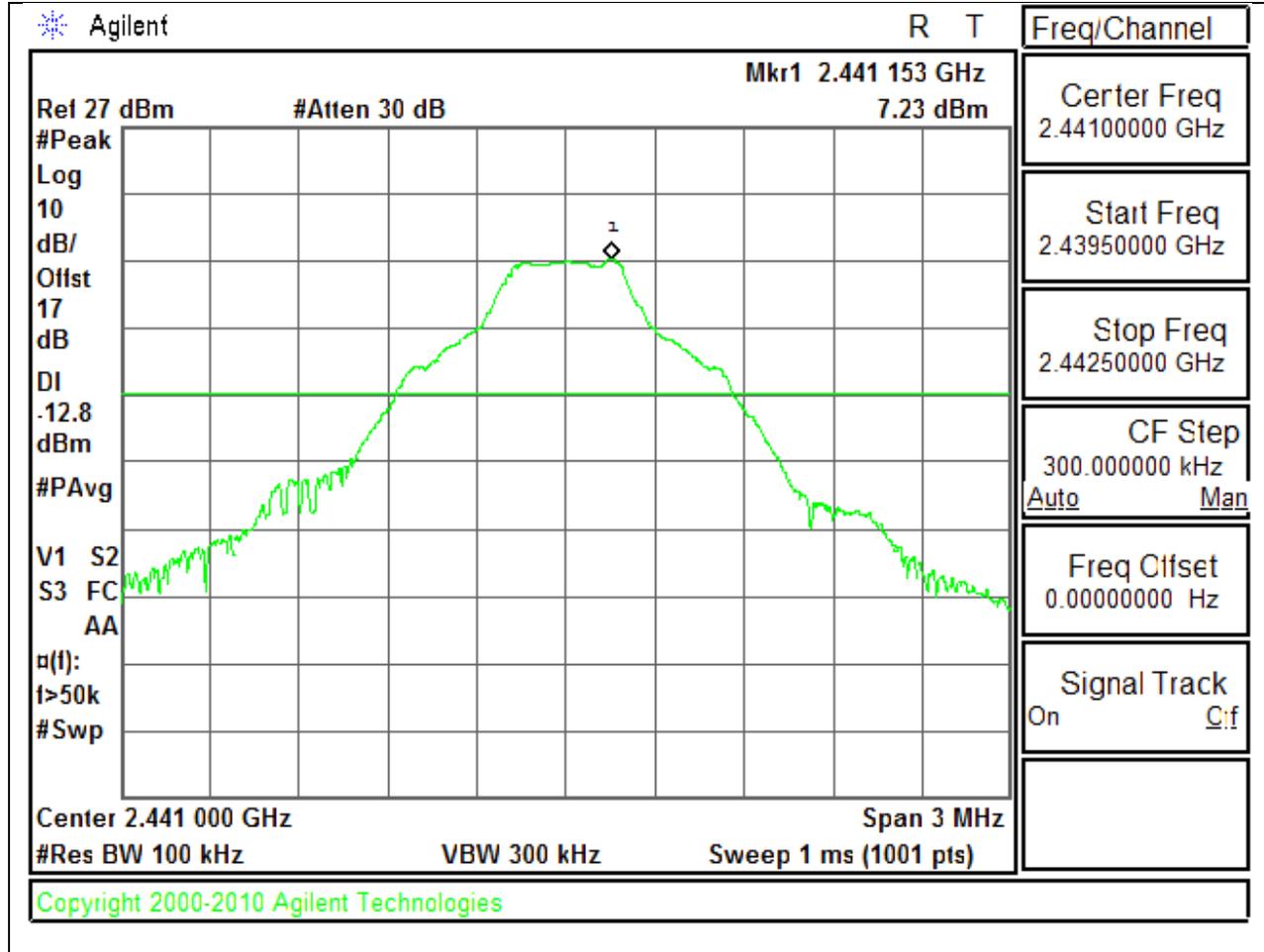


LOW CHANNEL SPURIOUS

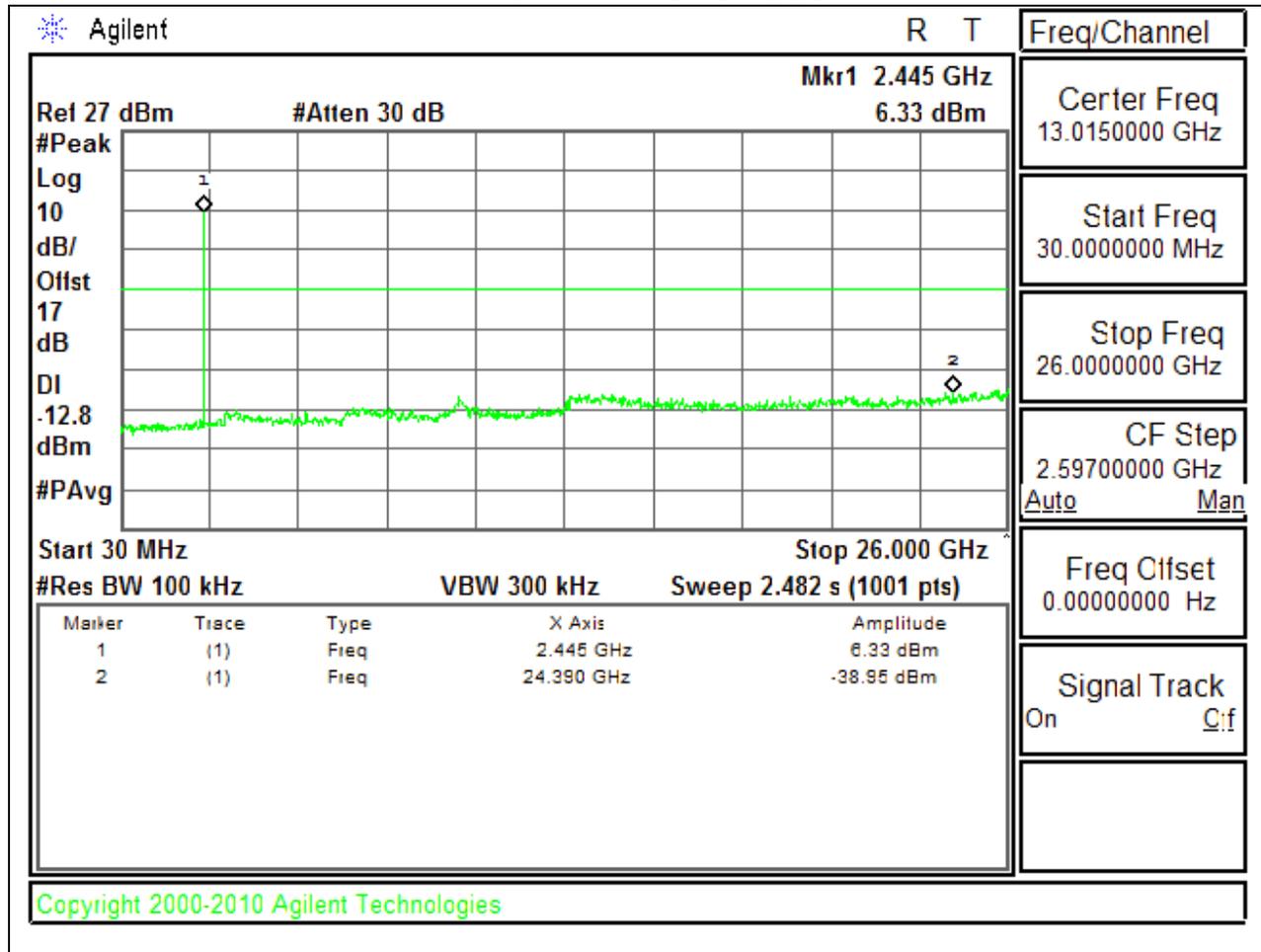


SPURIOUS EMISSIONS, MID CHANNEL

MID CHANNEL BANDEDGE

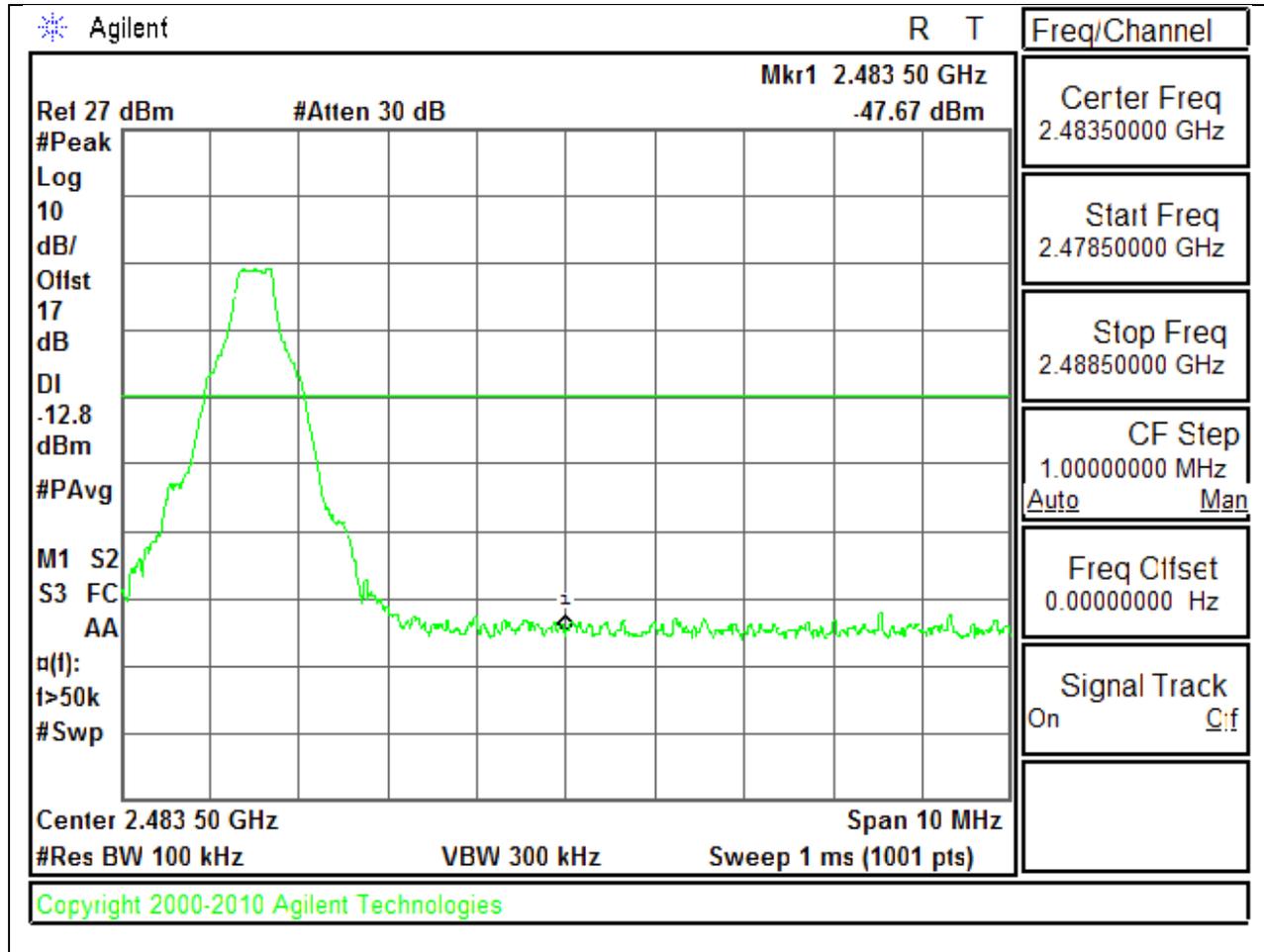


MID CHANNEL SPURIOUS

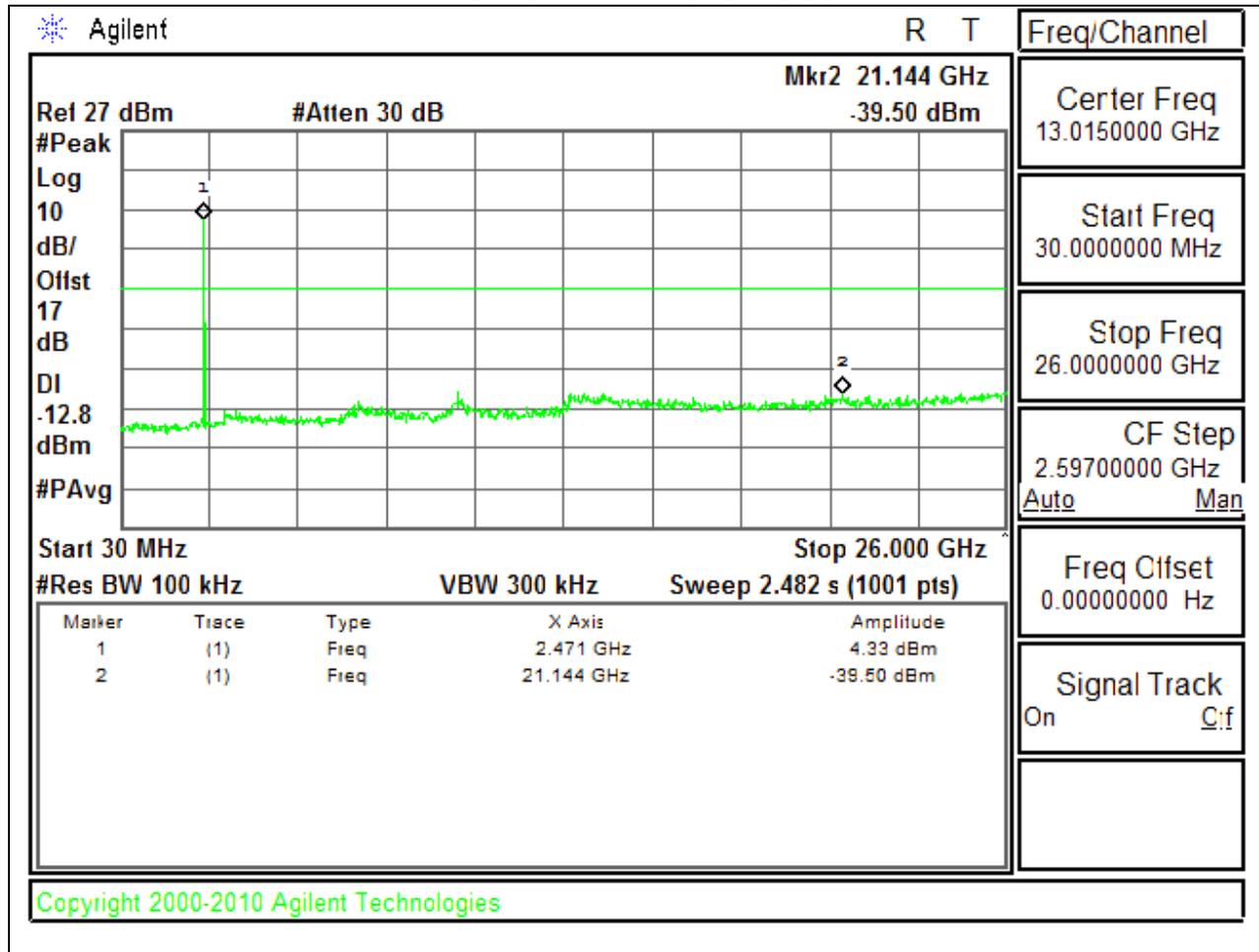


SPURIOUS EMISSIONS, HIGH CHANNEL

HIGH CHANNEL BANDEDGE

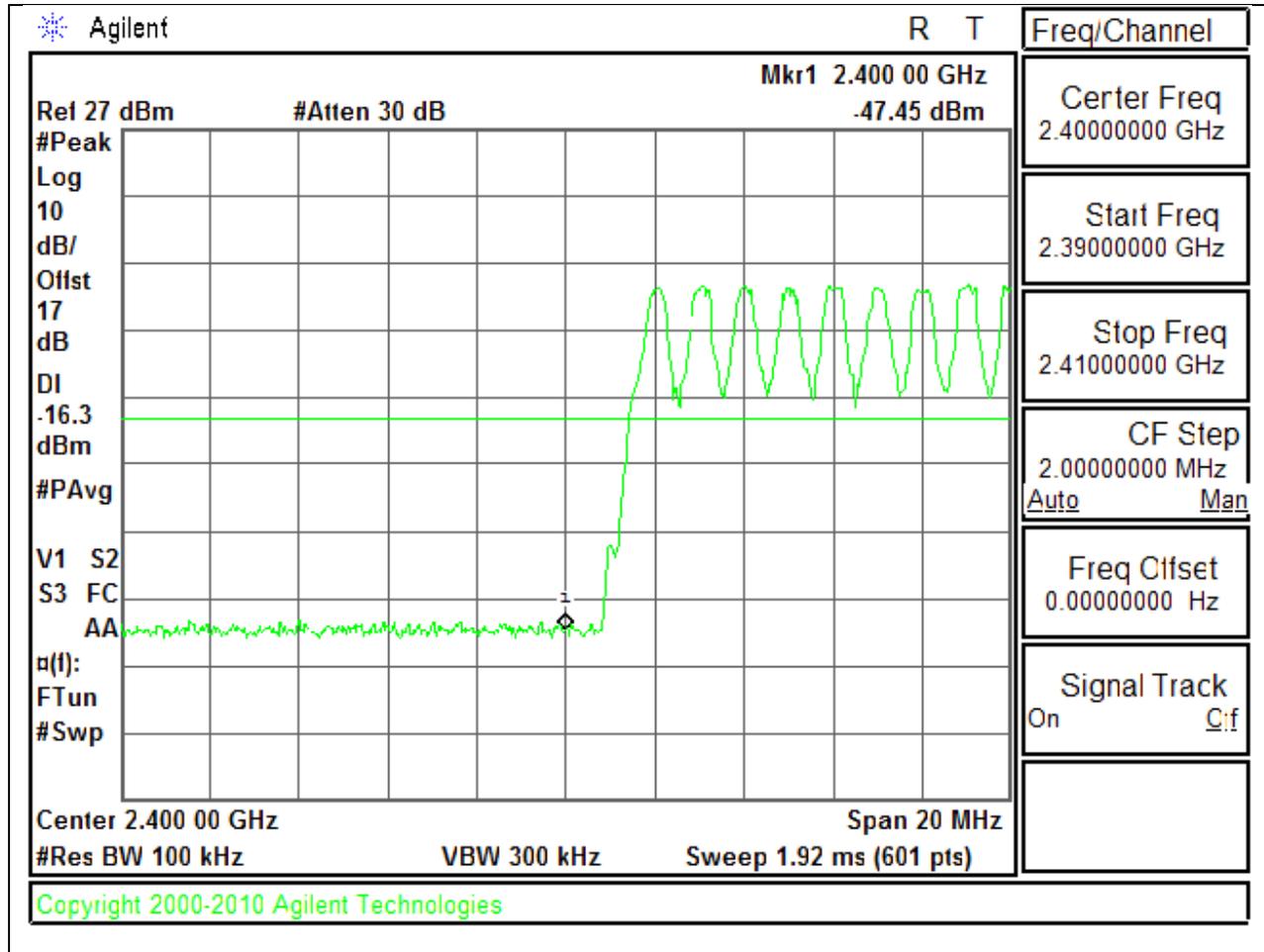


HIGH CHANNEL SPURIOUS

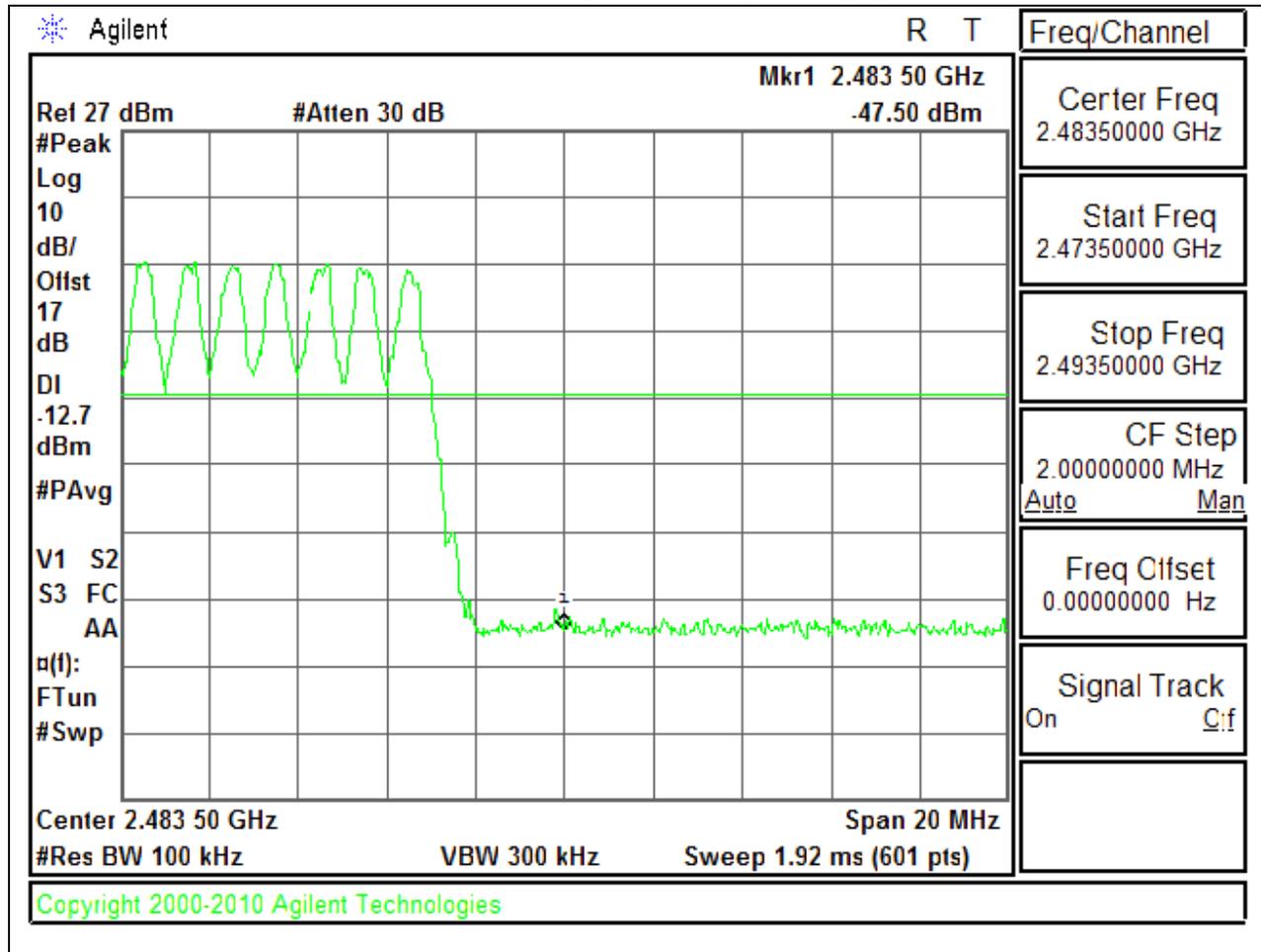


SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW BANDEDGE WITH HOPPING ON



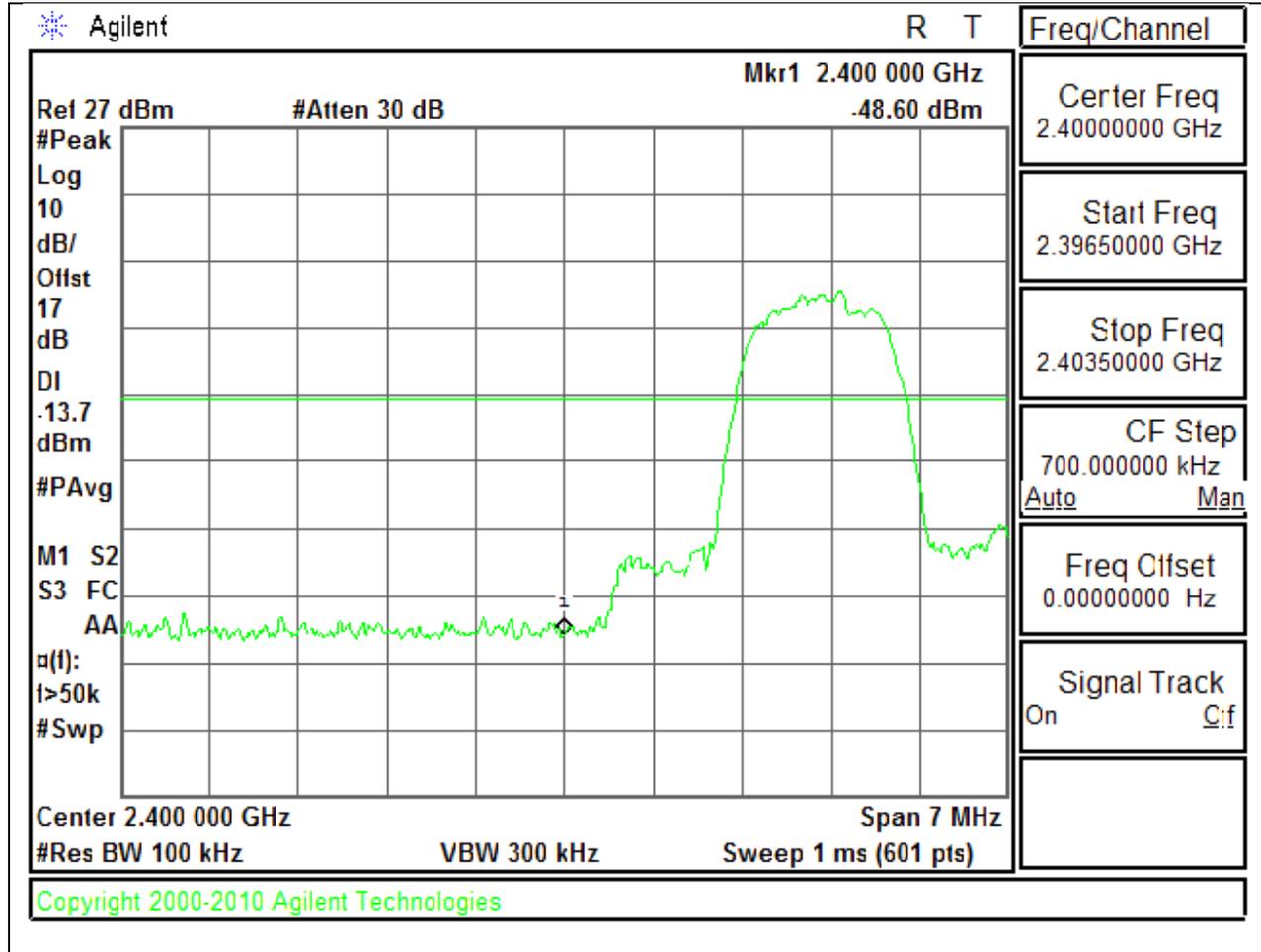
HIGH BANDEGE WITH HOPPING ON



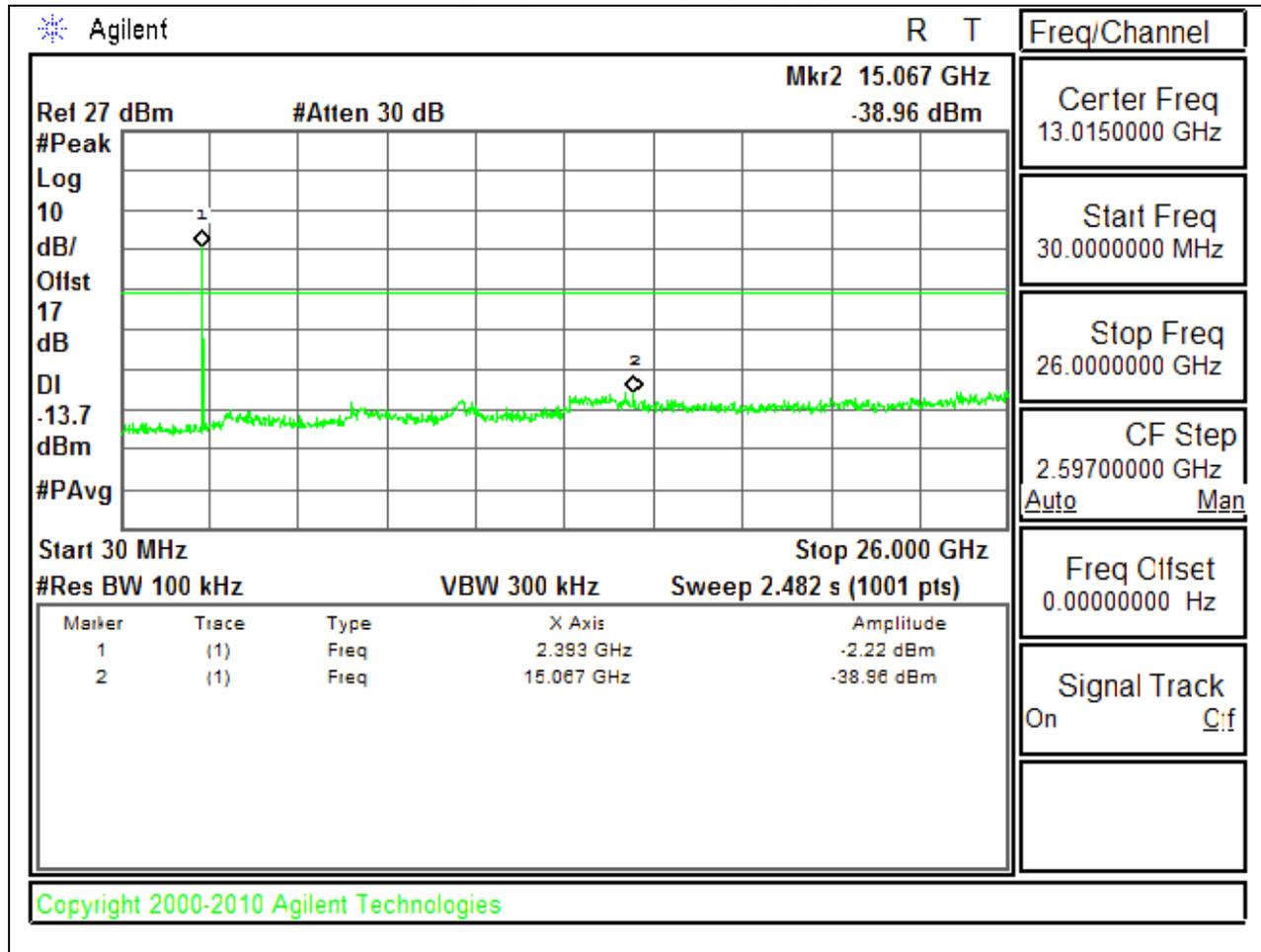
8.7.2. ENHANCED DATA RATE 8PSK MODULATION

SPURIOUS EMISSIONS, LOW CHANNEL

LOW CHANNEL BANDEDGE

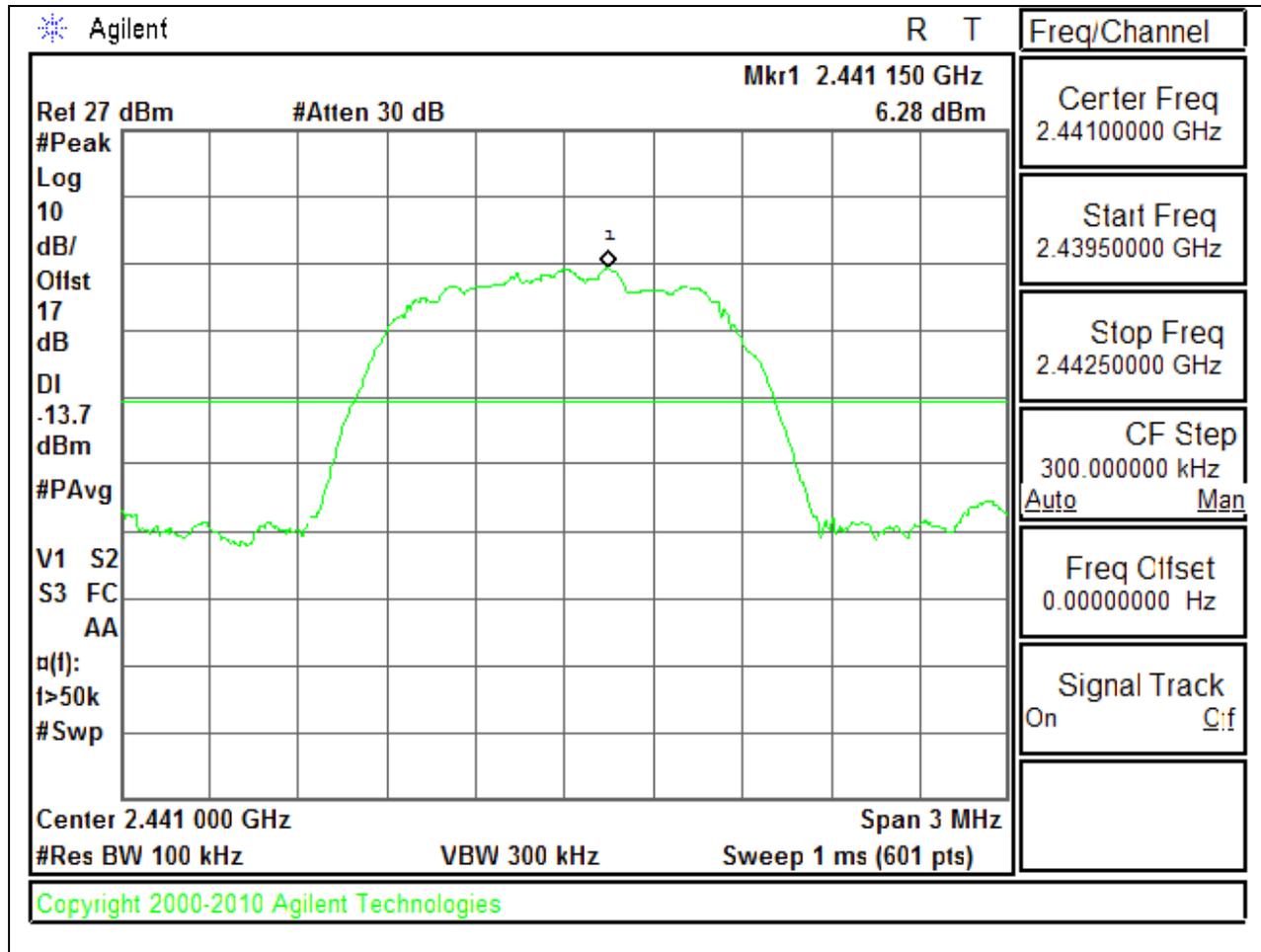


LOW CHANNEL SPURIOUS

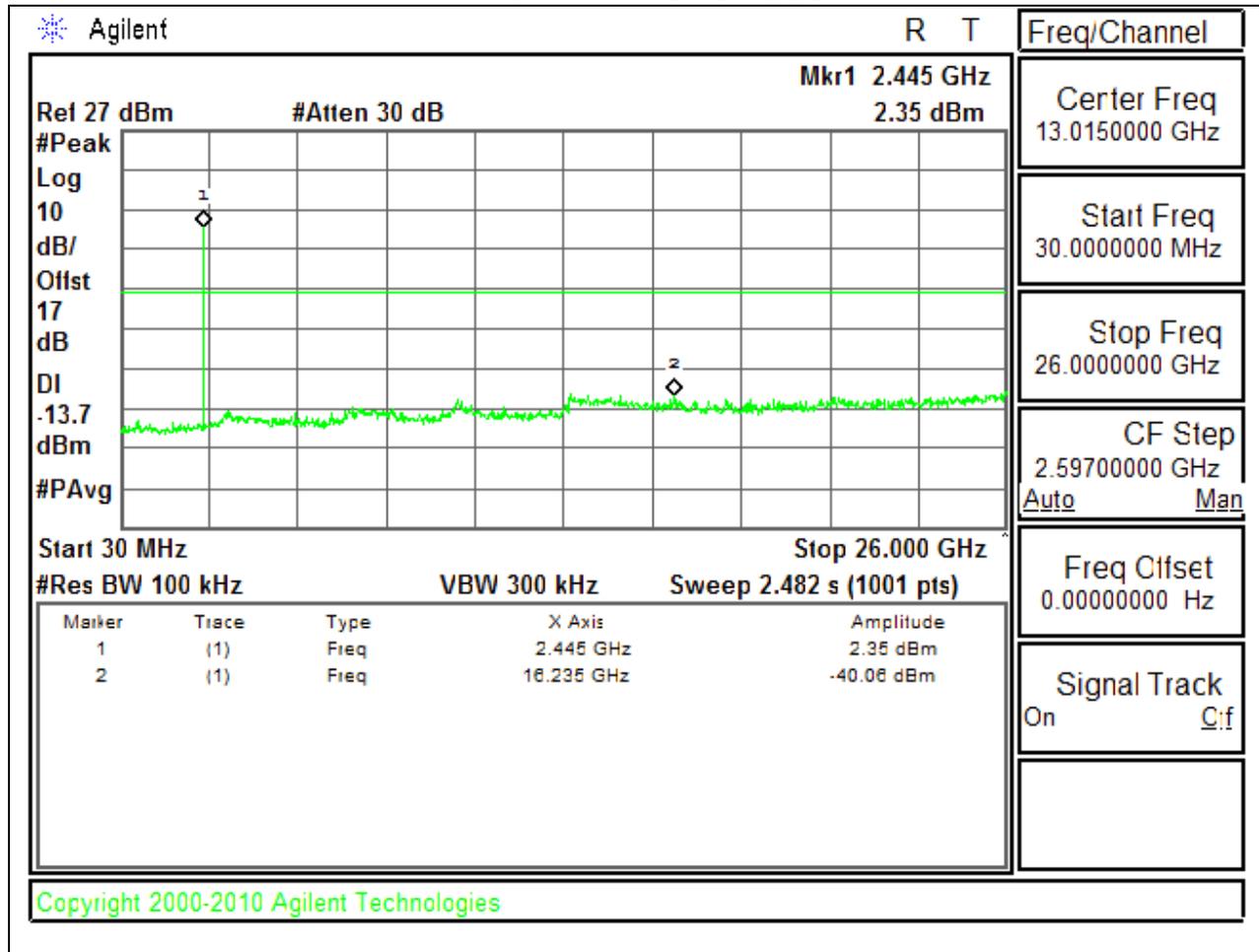


SPURIOUS EMISSIONS, MID CHANNEL

MID CHANNEL BANDEDGE

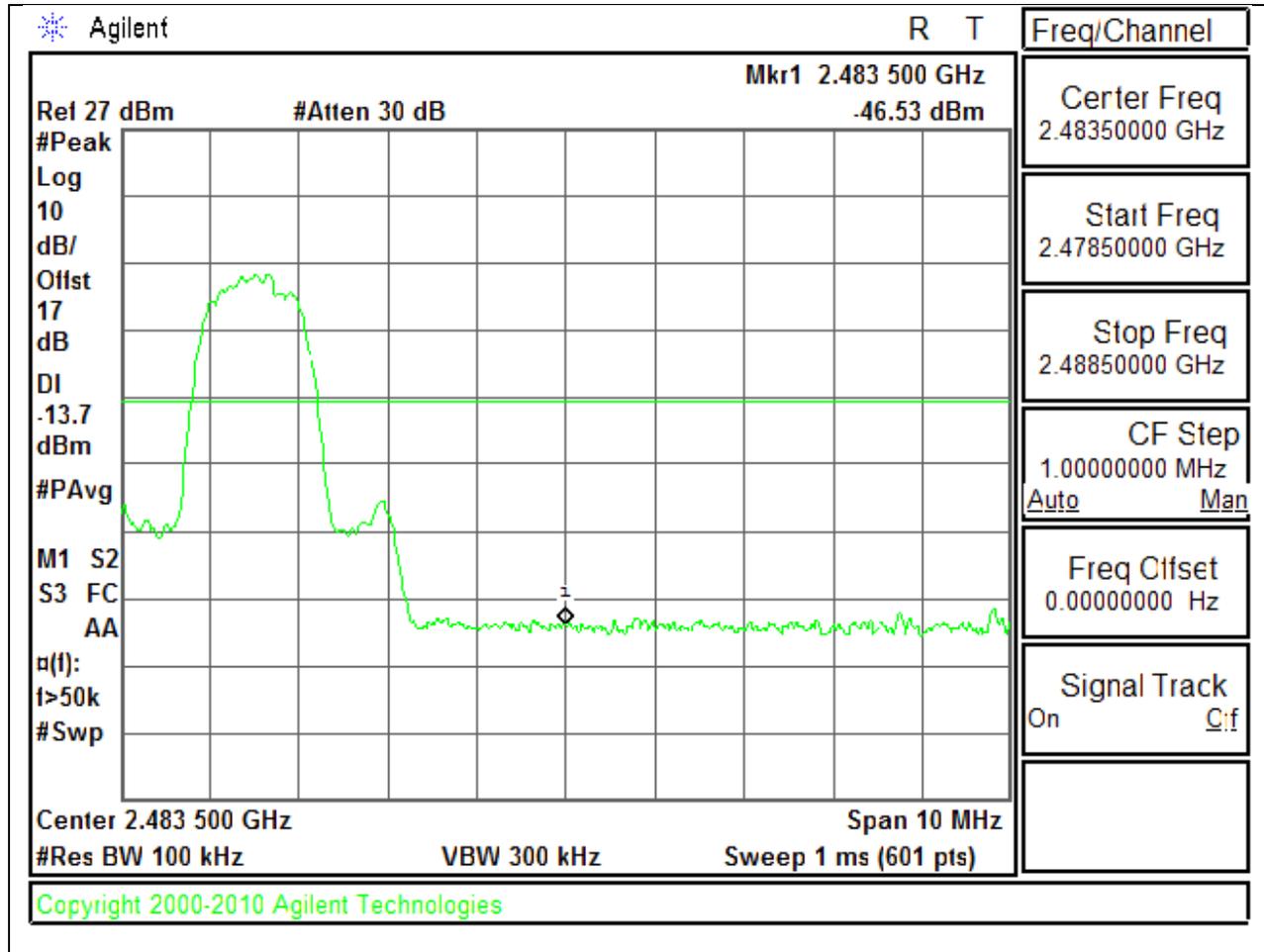


MID CHANNEL SPURIOUS

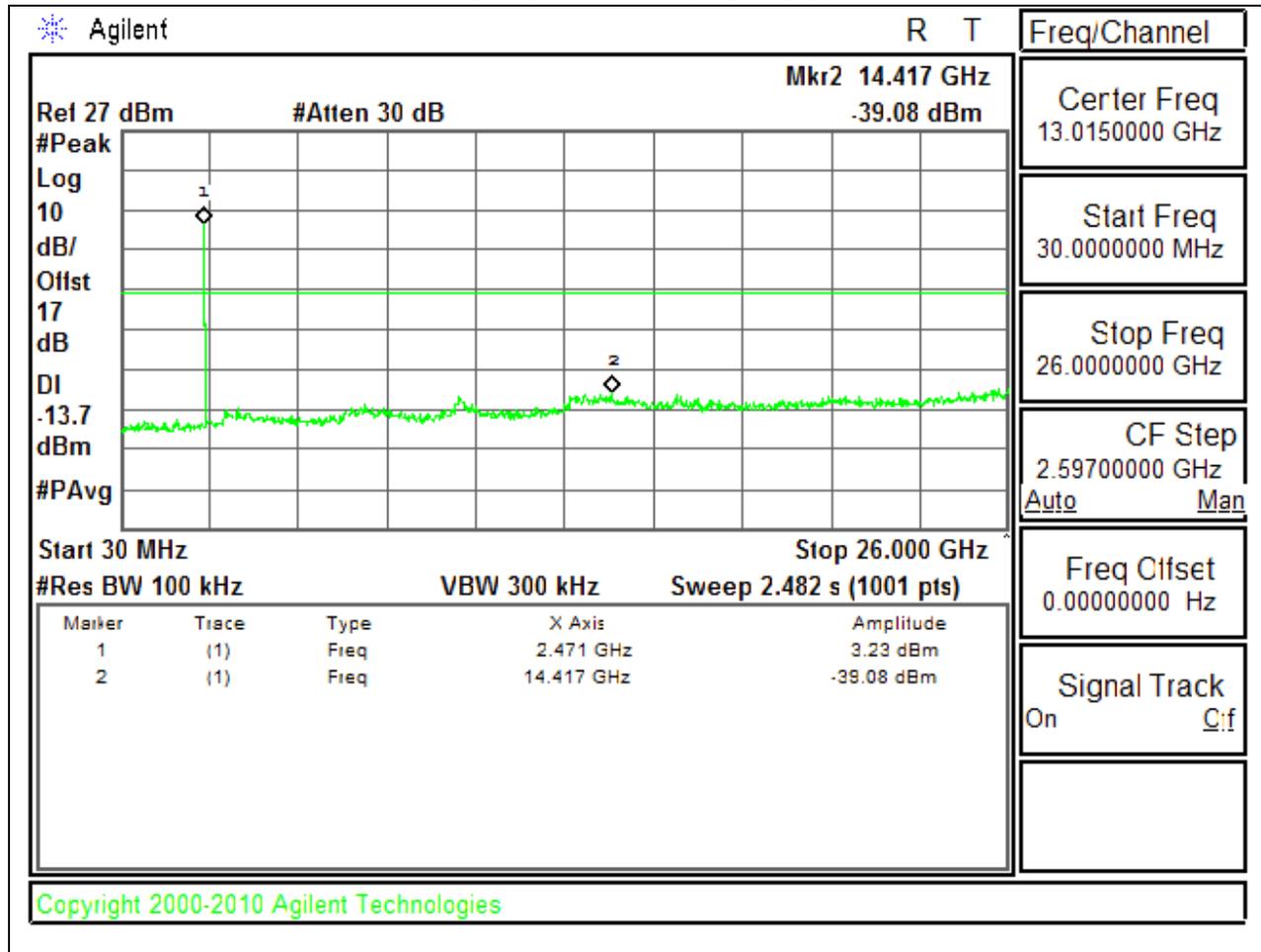


SPURIOUS EMISSIONS, HIGH CHANNEL

HIGH CHANNEL BANDEDGE

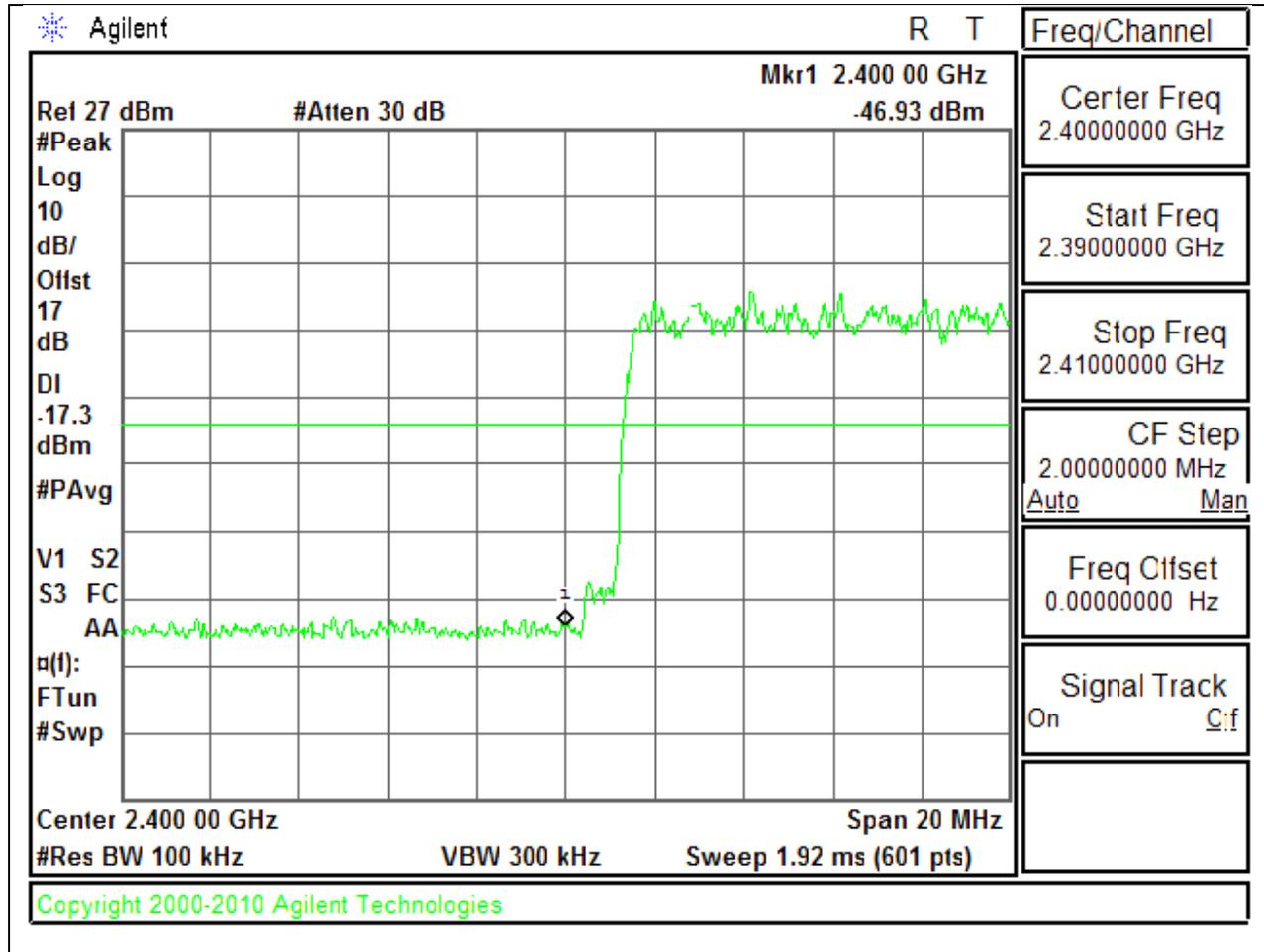


HIGH CHANNEL SPURIOUS

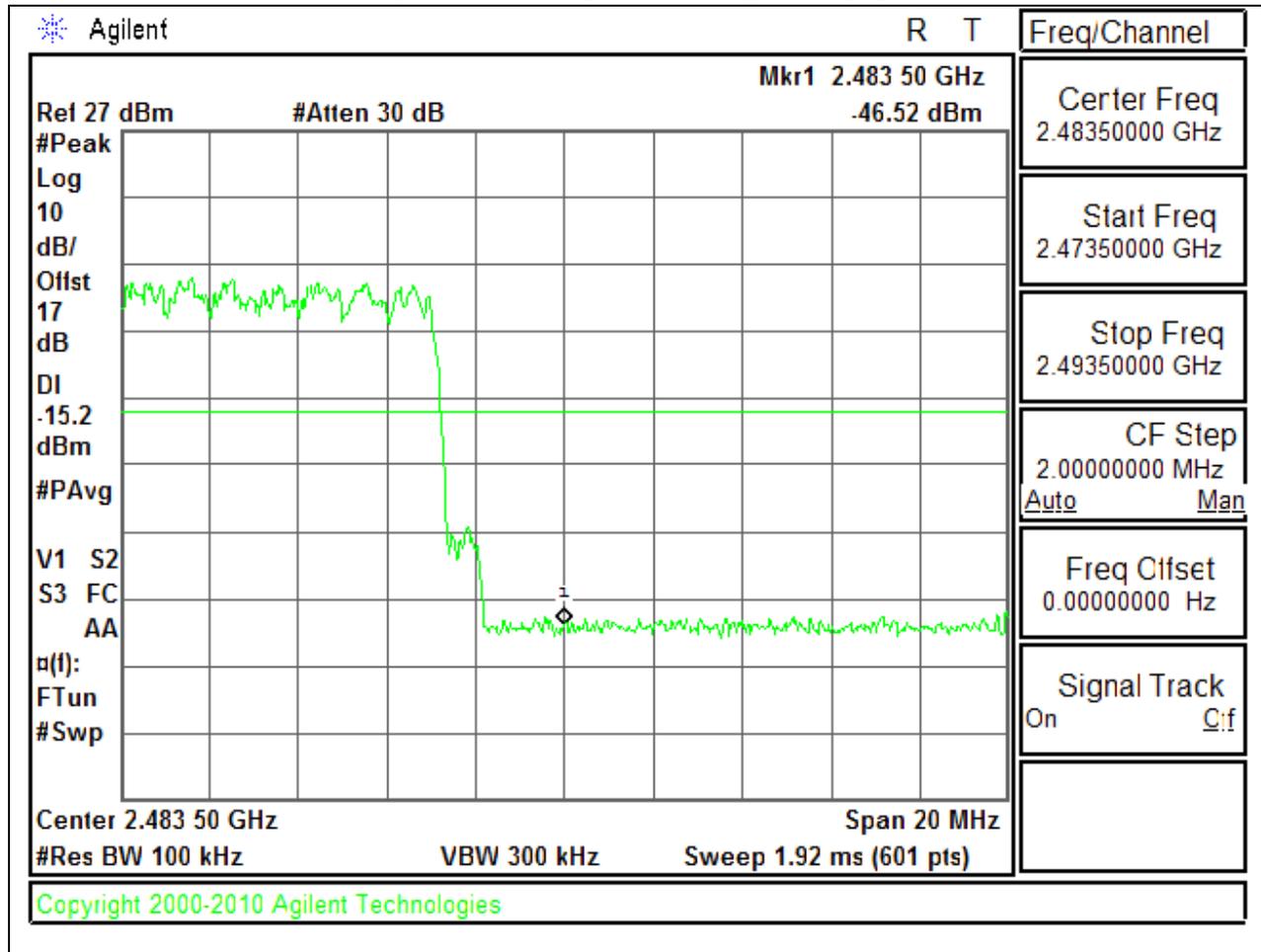


SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW BANDEDGE WITH HOPPING ON



HIGH BANDEGE WITH HOPPING ON



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

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. $GFSK = 1/T = 1 / 0.0028S = 350Hz$.

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.

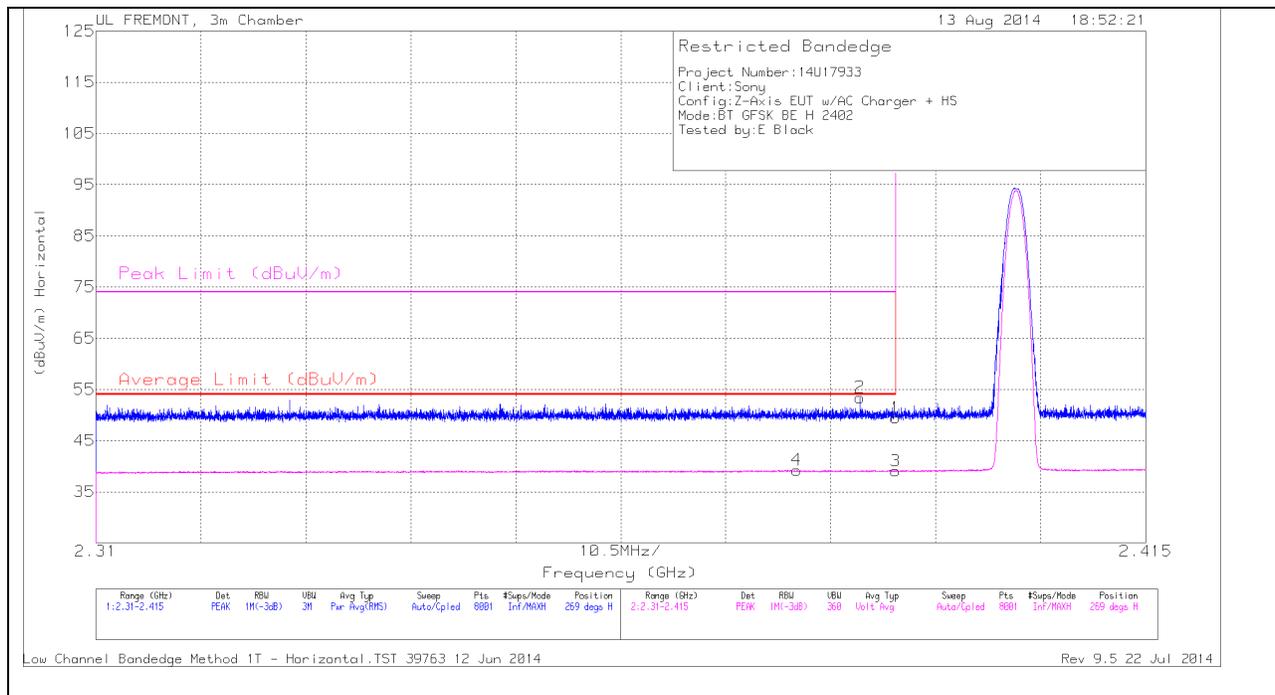
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL)

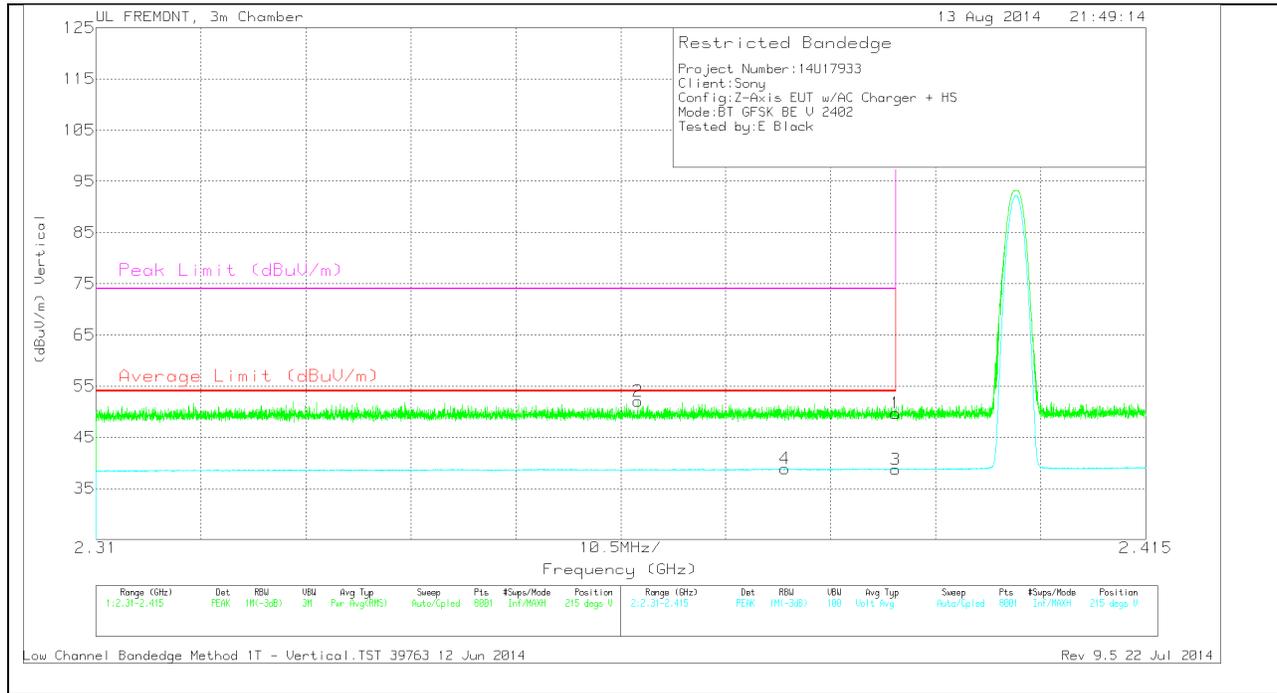
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.38	30.25	VB1T	32.1	-23.1	0	39.25	54	-14.75	-	-	269	108	H
2	2.386	44.43	PK	32.1	-23.1	0	53.43	-	-	74	-20.57	269	108	H
1	2.39	40.44	PK	32.1	-23.1	0	49.44	-	-	74	-24.56	269	108	H
3	2.39	30.06	VB1T	32.1	-23.1	0	39.06	54	-14.94	-	-	269	108	H

VERTICAL PEAK AND AVERAGE PLOT

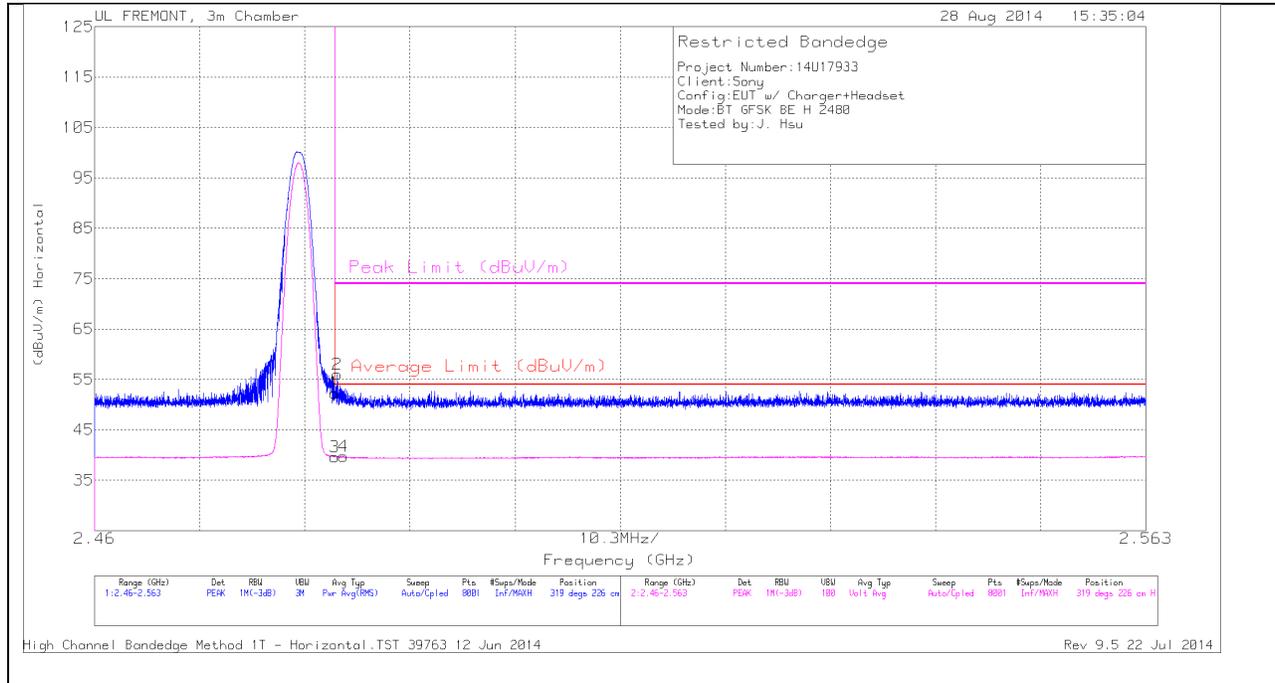


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/ 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
2	2.364	43.13	PK	32	-23.1	52.03	-	-	74	-21.97	215	191	V
4	2.379	29.87	VB1T	32.1	-23.1	38.87	54	-15.13	-	-	215	191	V
1	2.39	40.66	PK	32.1	-23.1	49.66	-	-	74	-24.34	215	191	V
3	2.39	29.72	VB1T	32.1	-23.1	38.72	54	-15.28	-	-	215	191	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

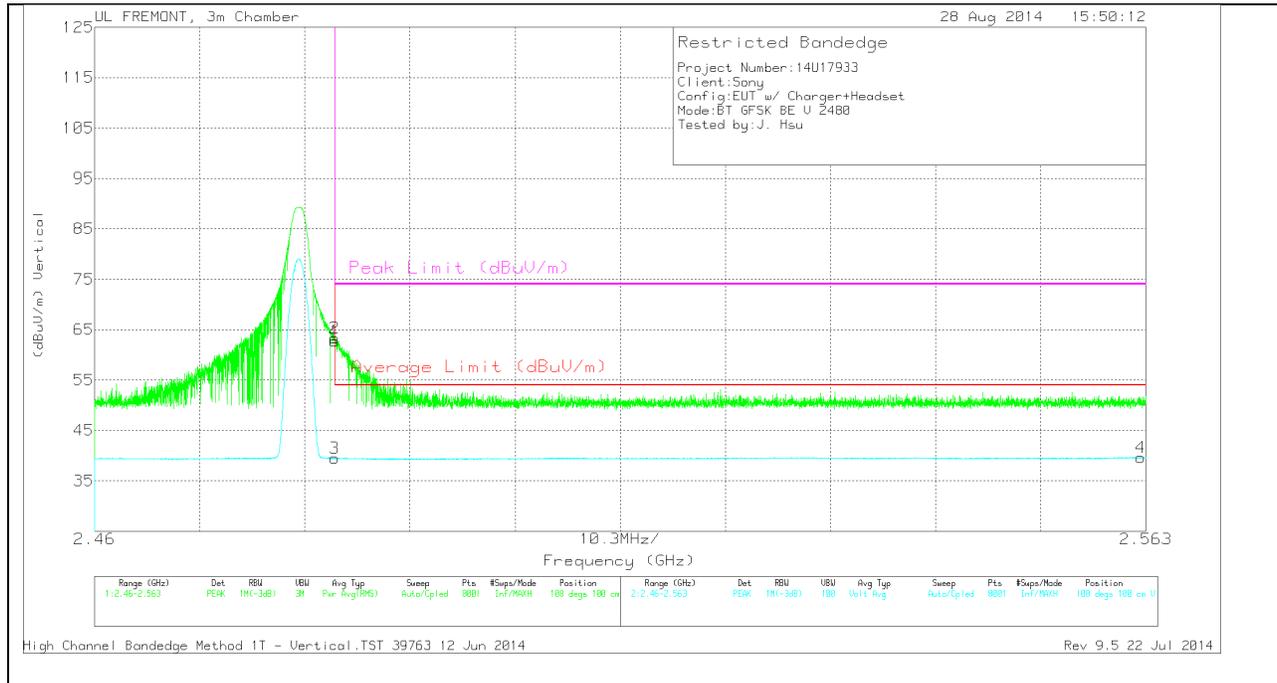
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	2.484	42.84	PK	32.3	-22.8	52.34	-	-	74	-21.66	319	226	H
2	2.484	46.5	PK	32.3	-22.8	56	-	-	74	-18	319	226	H
3	2.484	30.15	VB1T	32.3	-22.8	39.65	54	-14.35	-	-	319	226	H
4	2.484	30.24	VB1T	32.3	-22.8	39.74	54	-14.26	-	-	319	226	H

VERTICAL PEAK AND AVERAGE PLOT

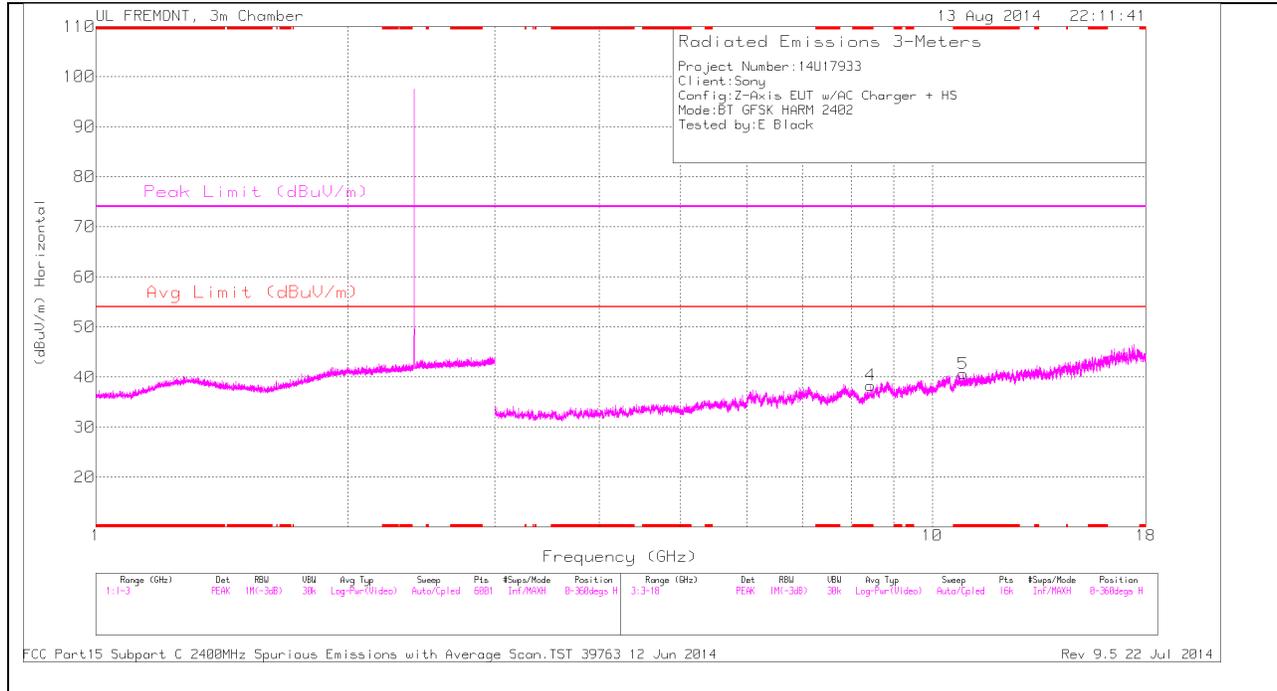


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	53.26	PK	32.3	-22.8	62.76	-	-	74	-11.24	108	100	V
2	2.484	53.83	PK	32.3	-22.8	63.33	-	-	74	-10.67	108	100	V
3	2.484	30.01	VB1T	32.3	-22.8	39.51	54	-14.49	-	-	108	100	V
4	2.563	29.96	VB1T	32.4	-22.7	39.66	54	-14.34	-	-	108	100	V

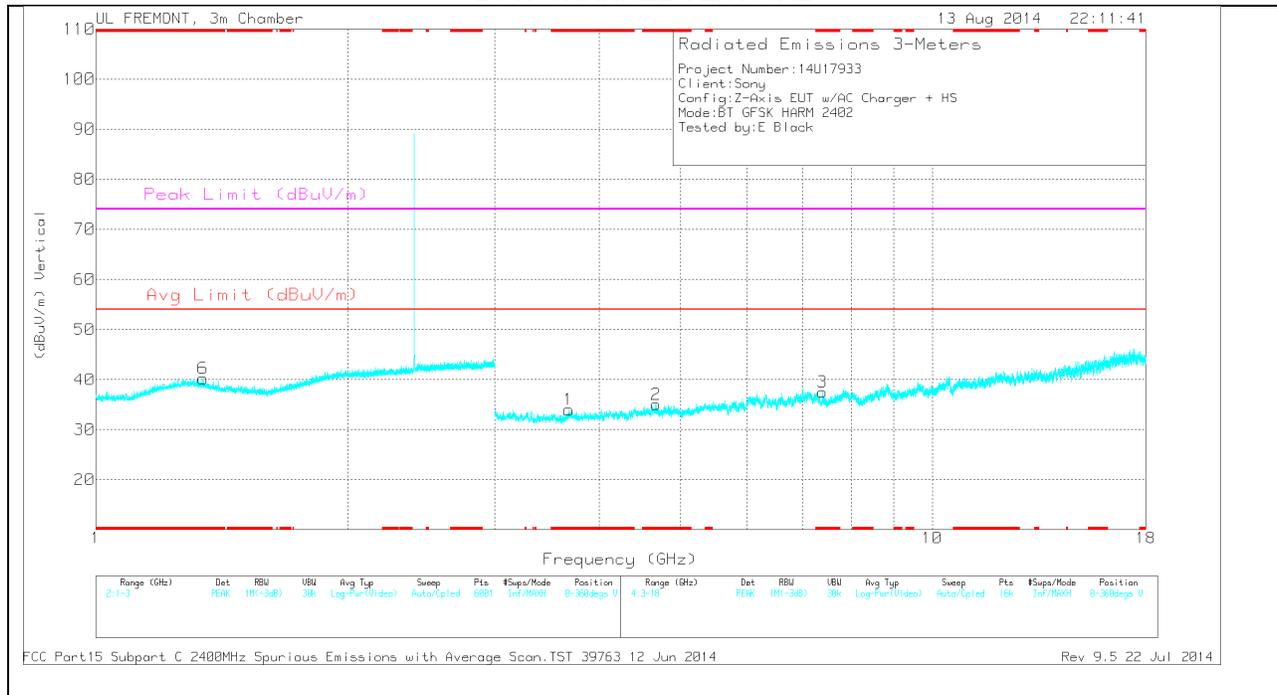
HARMONICS AND SPURIOUS EMISSIONS

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

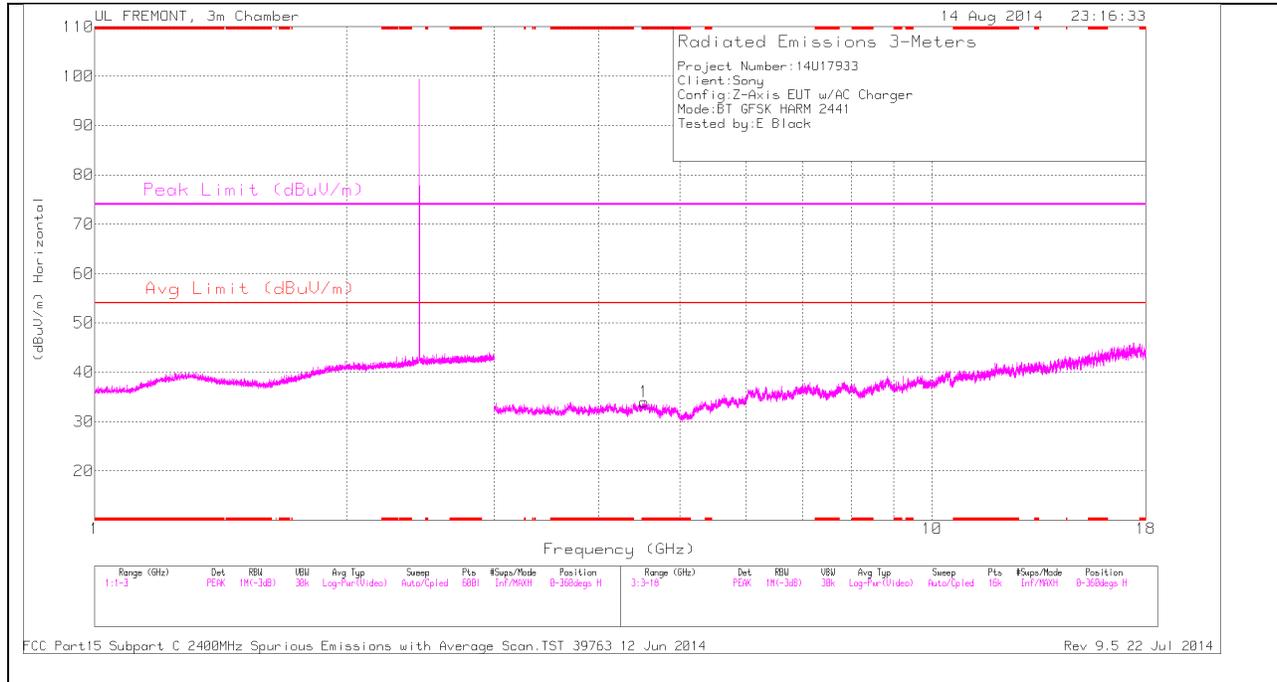
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 1.344	34.33	PK	29.7	-23.8	0	40.23	-	-	74	-33.77	0-360	100	V
5	* 10.892	28.54	PK	37.9	-25.8	0	40.64	-	-	74	-33.36	0-360	100	H
1	* 3.678	31.39	PK	33.2	-30.6	0	33.99	-	-	74	-40.01	0-360	100	V
2	* 4.673	31.61	PK	34.1	-30.7	0	35.01	-	-	74	-38.99	0-360	200	V
3	* 7.395	30.13	PK	35.7	-28.3	0	37.53	-	-	74	-36.47	0-360	200	V
4	* 8.441	29.74	PK	35.8	-27.2	0	38.34	-	-	74	-35.66	0-360	100	H

PK - Peak detector

RADIATED EMISSIONS

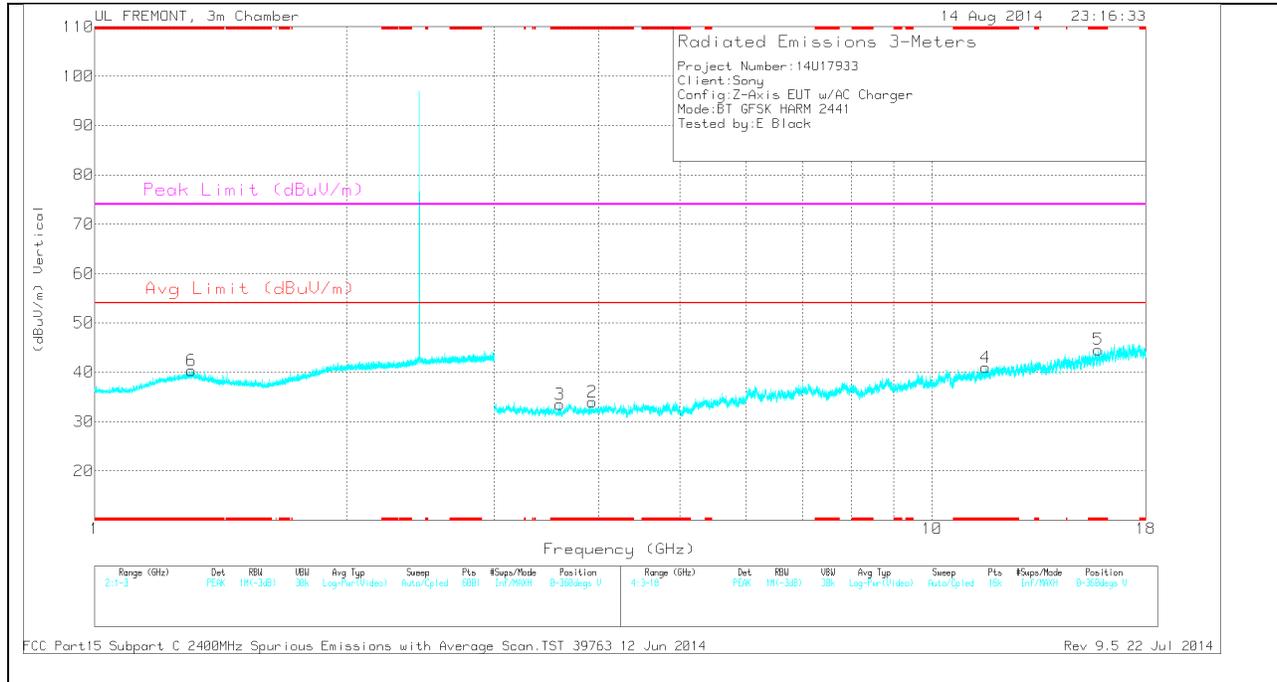
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/ Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.675	41.14	PK3	34.1	-30.7	0	44.54	-	-	74	-29.46	283	116	V
* 4.674	27.77	VB1T	34.1	-30.7	0	31.17	54	-22.83	-	-	283	116	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

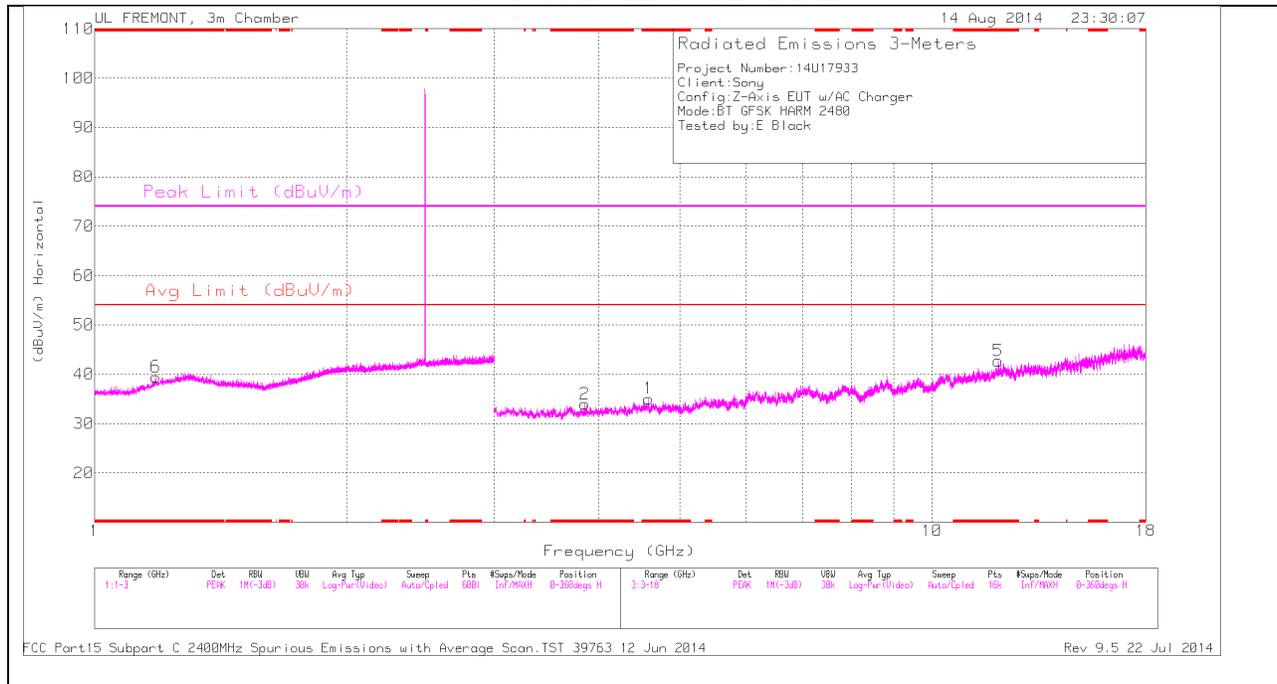
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 1.306	33.97	PK	30.2	-23.8	0	40.37	-	-	74	-33.63	0-360	200	V
4	* 11.59	28.78	PK	38.4	-26.2	0	40.98	-	-	74	-33.02	0-360	100	V
5	* 15.795	30.7	PK	40.4	-26.5	0	44.6	-	-	74	-29.4	0-360	200	V
3	* 3.595	32.18	PK	33	-31.7	0	33.48	-	-	74	-40.52	0-360	100	V
2	* 3.928	31.86	PK	33.3	-31.2	0	33.96	-	-	74	-40.04	0-360	100	V
1	* 4.53	31.51	PK	34	-31.5	0	34.01	-	-	74	-39.99	0-360	200	H

PK - Peak detector

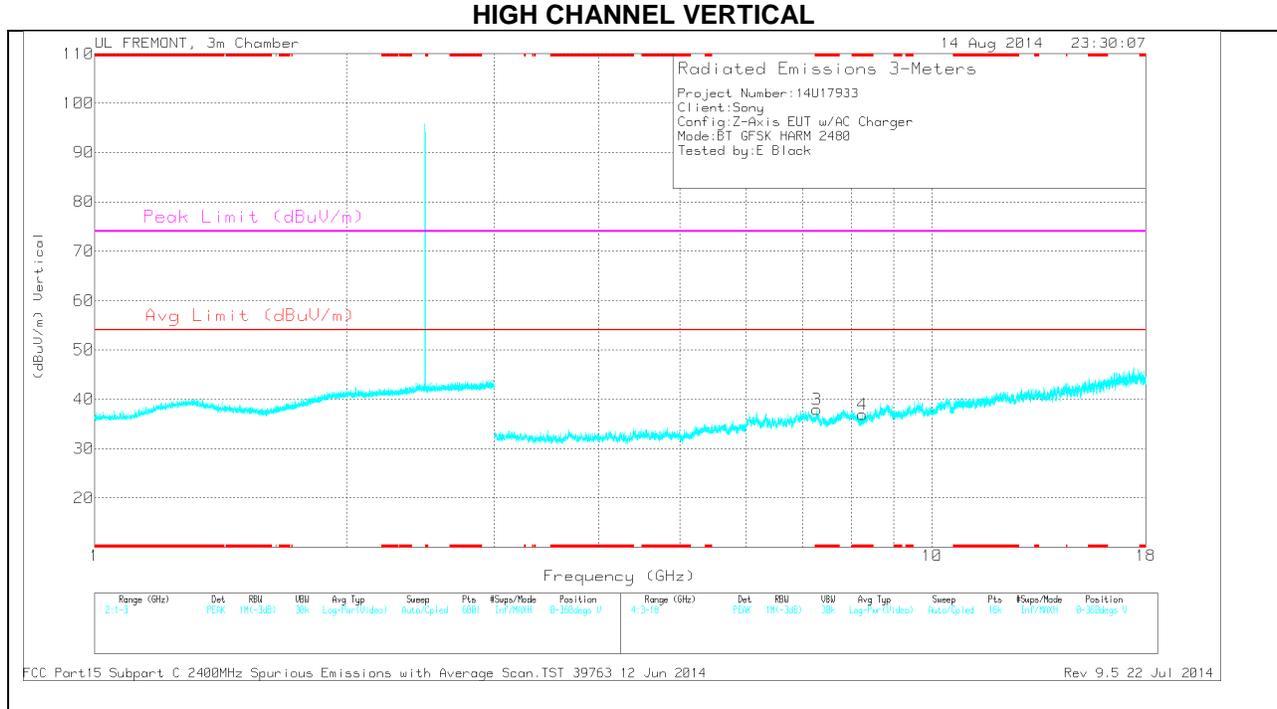
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 3.929	41.39	PK3	33.3	-31.2	0	43.49	-	-	74	-30.51	296	346	V
* 3.928	28.04	VB1T	33.3	-31.2	0	30.14	54	-23.86	-	-	296	346	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.



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 T119 (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
6	* 1.182	34.42	PK	28.9	-23.8	0	39.52	-	-	74	-34.48	0-360	100	H
1	* 4.587	31.98	PK	34	-30.9	0	35.08	-	-	74	-38.92	0-360	100	H
2	* 3.847	32.05	PK	33.2	-31.2	0	34.05	-	-	74	-39.95	0-360	100	H
5	* 11.994	29.5	PK	39	-25.8	0	42.7	-	-	74	-31.3	0-360	100	H
3	* 7.283	31.46	PK	35.6	-29.1	0	37.96	-	-	74	-36.04	0-360	200	V
4	* 8.26	29.57	PK	35.8	-28.5	0	36.87	-	-	74	-37.13	0-360	200	V

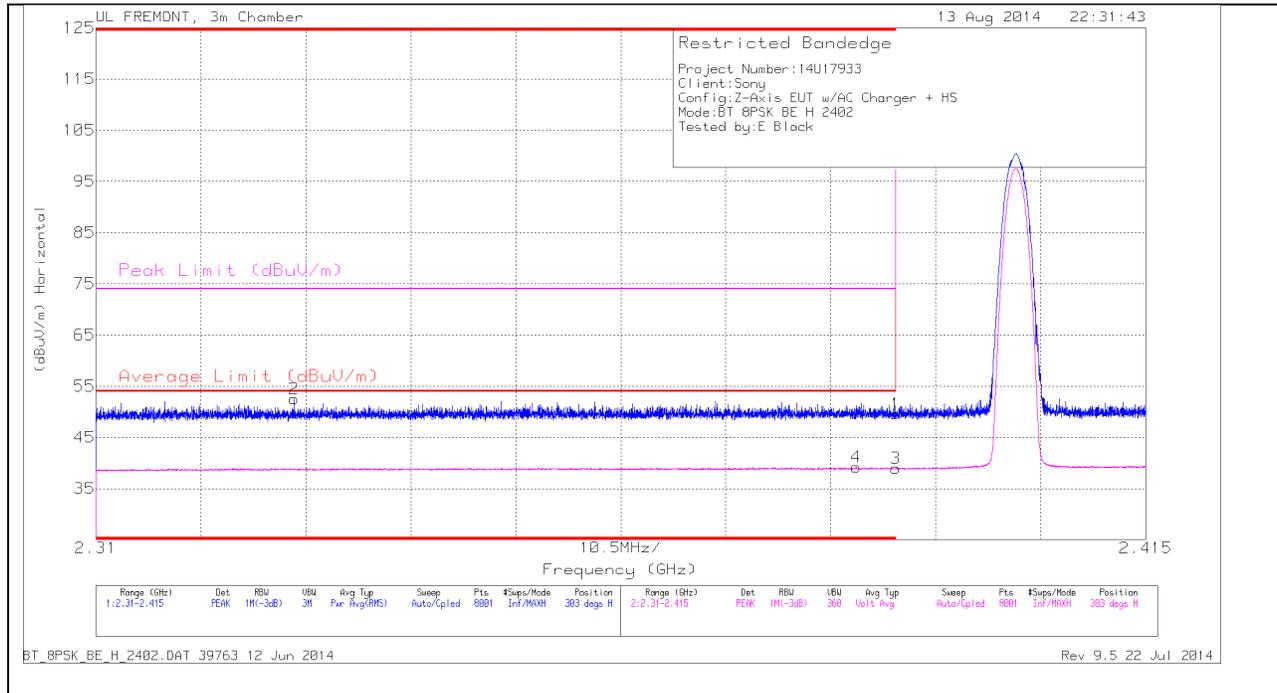
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 3.846	40.5	PK3	33.2	-31.1	0	42.6	-	-	74	-31.4	82	108	H
* 3.849	27.86	VB1T	33.2	-31.1	0	29.96	54	-24.04	-	-	82	108	H

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

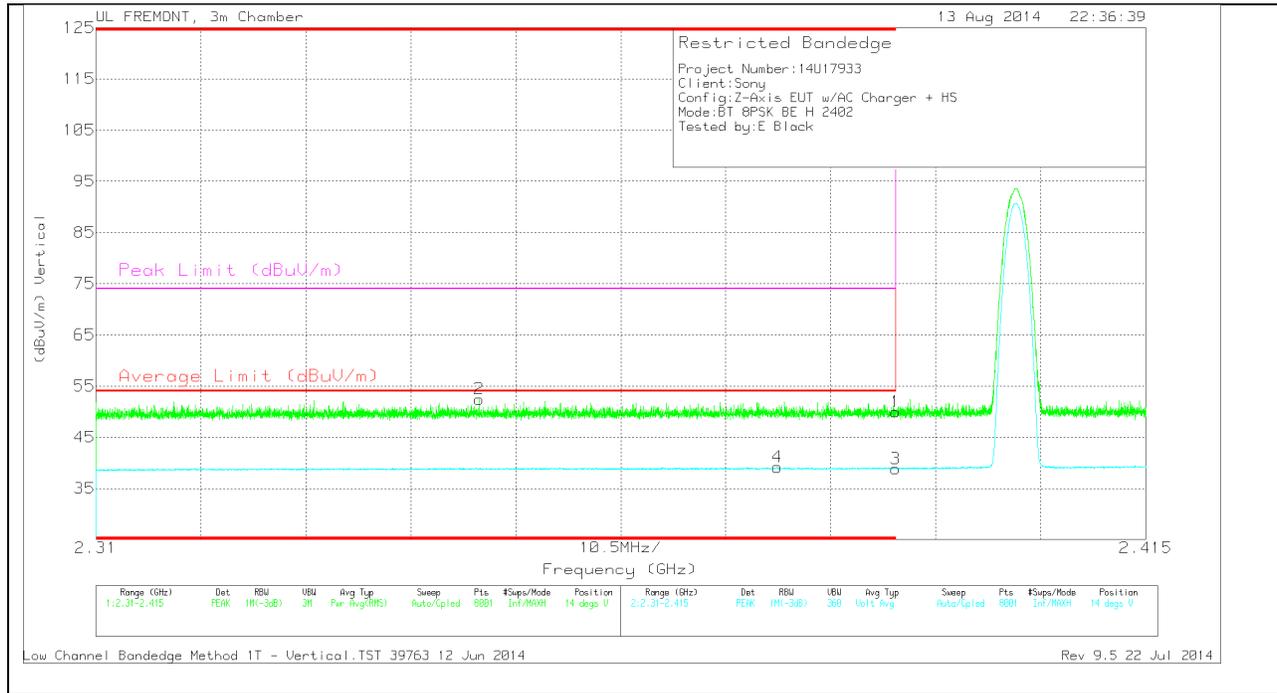
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.33	43.73	PK	31.9	-23.1	0	52.53	-	-	74	-21.47	303	115	H
4	* 2.386	30.2	VB1T	32.1	-23.1	0	39.2	54	-14.8	-	-	303	115	H
1	* 2.39	40.56	PK	32.1	-23.1	0	49.56	-	-	74	-24.44	303	115	H
3	* 2.39	29.97	VB1T	32.1	-23.1	0	38.97	54	-15.03	-	-	303	115	H

VERTICAL PEAK AND AVERAGE PLOT

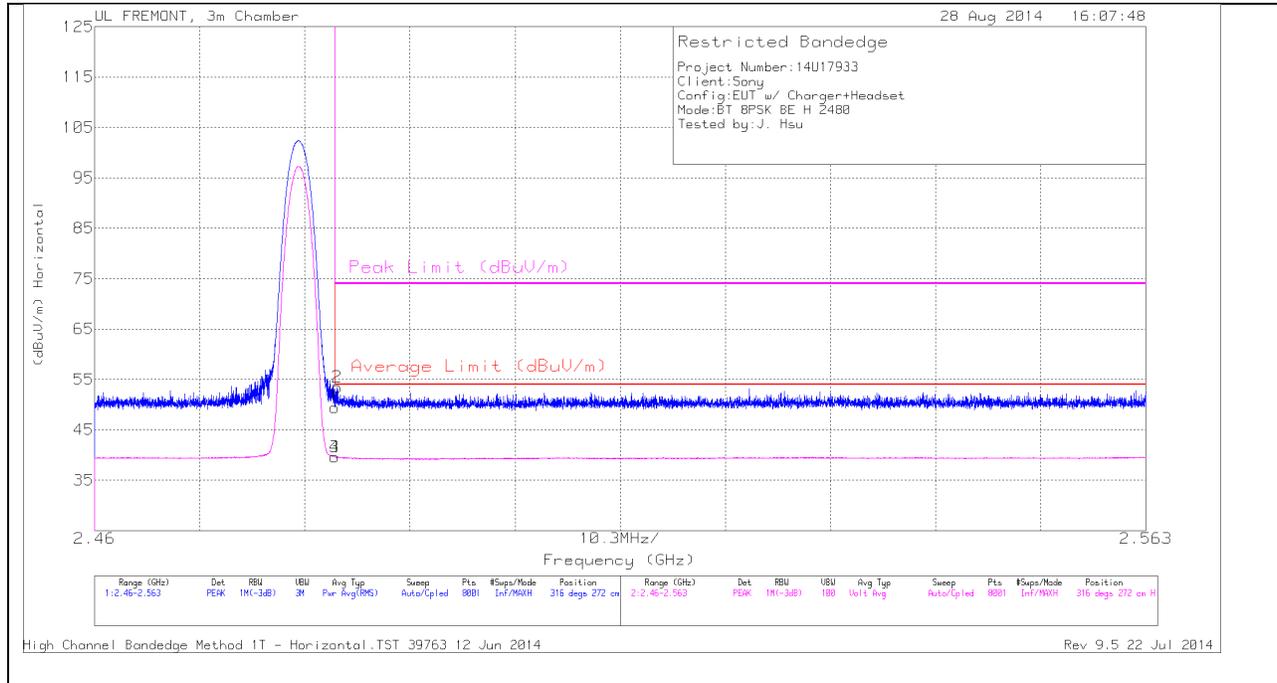


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (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	40.93	PK	32.1	-23.1	0	49.93	-	-	74	-24.07	14	100	V
2	* 2.348	43.66	PK	32	-23.2	0	52.46	-	-	74	-21.54	14	100	V
3	* 2.39	29.83	VB1T	32.1	-23.1	0	38.83	54	-15.17	-	-	14	100	V
4	* 2.378	30.17	VB1T	32.1	-23.1	0	39.17	54	-14.83	-	-	14	100	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

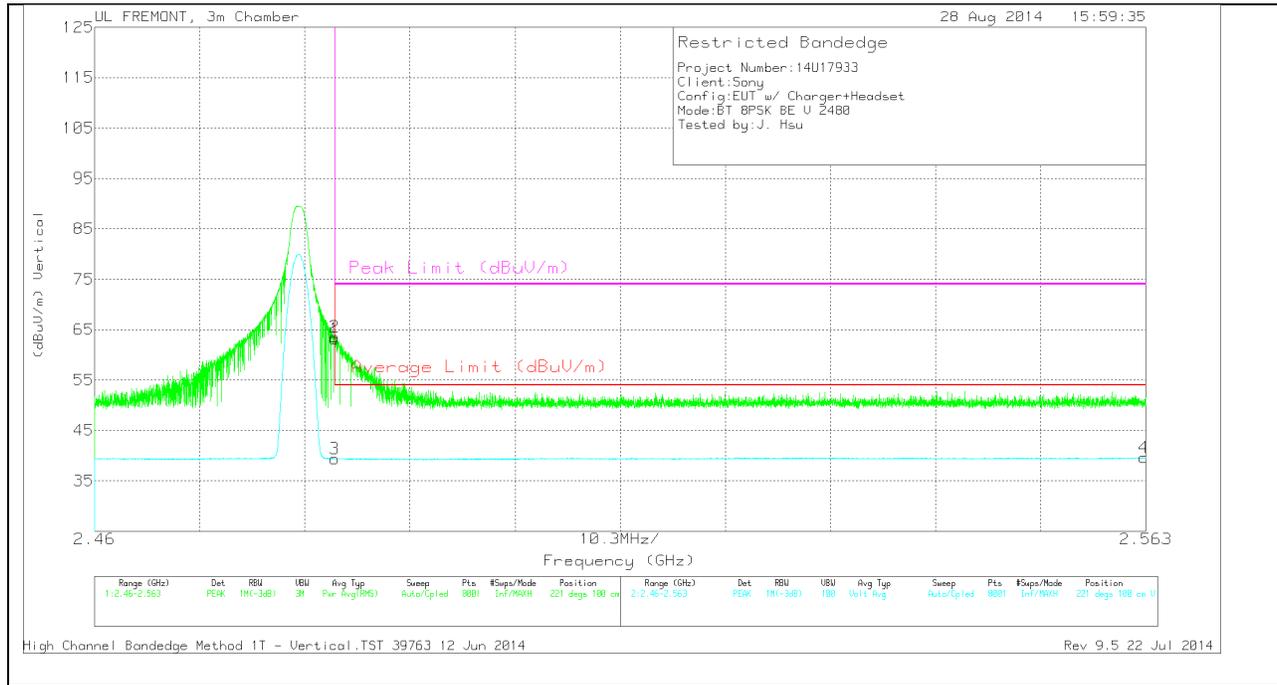
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	39.93	PK	32.3	-22.8	49.43	-	-	74	-24.57	316	272	H
2	2.484	43.96	PK	32.3	-22.8	53.46	-	-	74	-20.54	316	272	H
3	2.484	30.1	VB1T	32.3	-22.8	39.6	54	-14.4	-	-	316	272	H
4	2.484	30.16	VB1T	32.3	-22.8	39.66	54	-14.34	-	-	316	272	H

VERTICAL PEAK AND AVERAGE PLOT

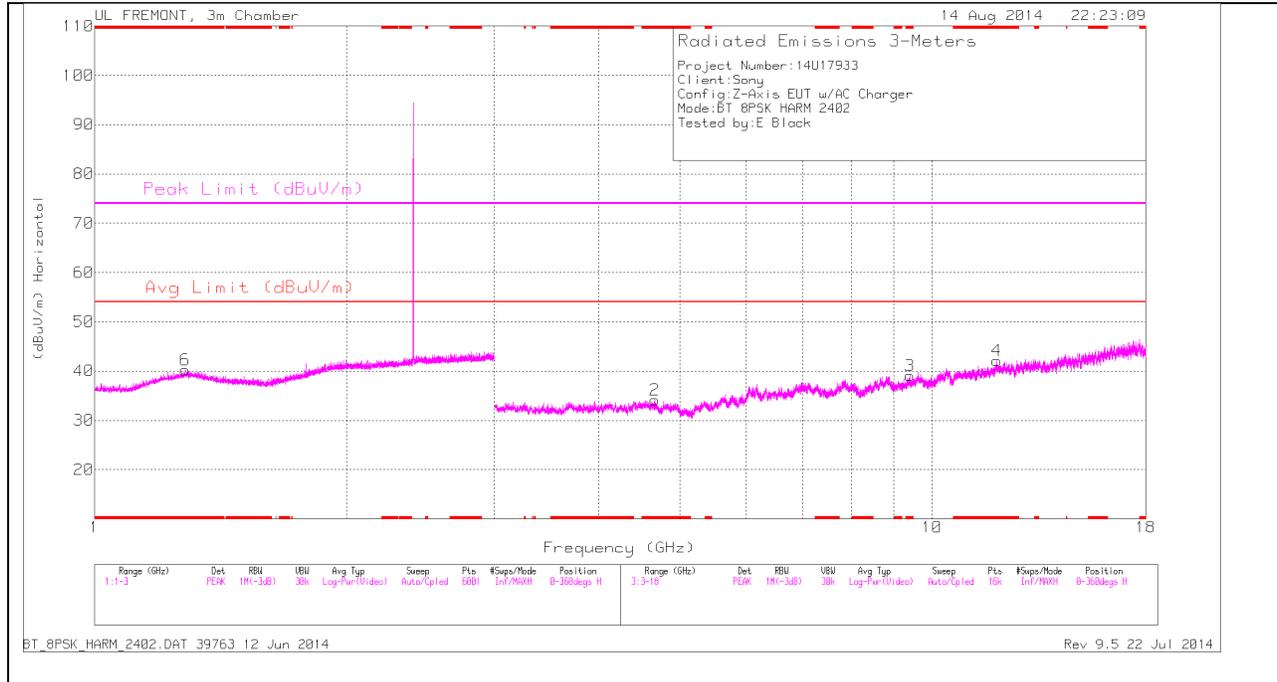


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	53.76	PK	32.3	-22.8	63.26	-	-	74	-10.74	221	100	V
2	2.484	54.08	PK	32.3	-22.8	63.58	-	-	74	-10.42	221	100	V
3	2.484	29.86	VB1T	32.3	-22.8	39.36	54	-14.64	-	-	221	100	V
4	2.563	29.89	VB1T	32.4	-22.7	39.59	54	-14.41	-	-	221	100	V

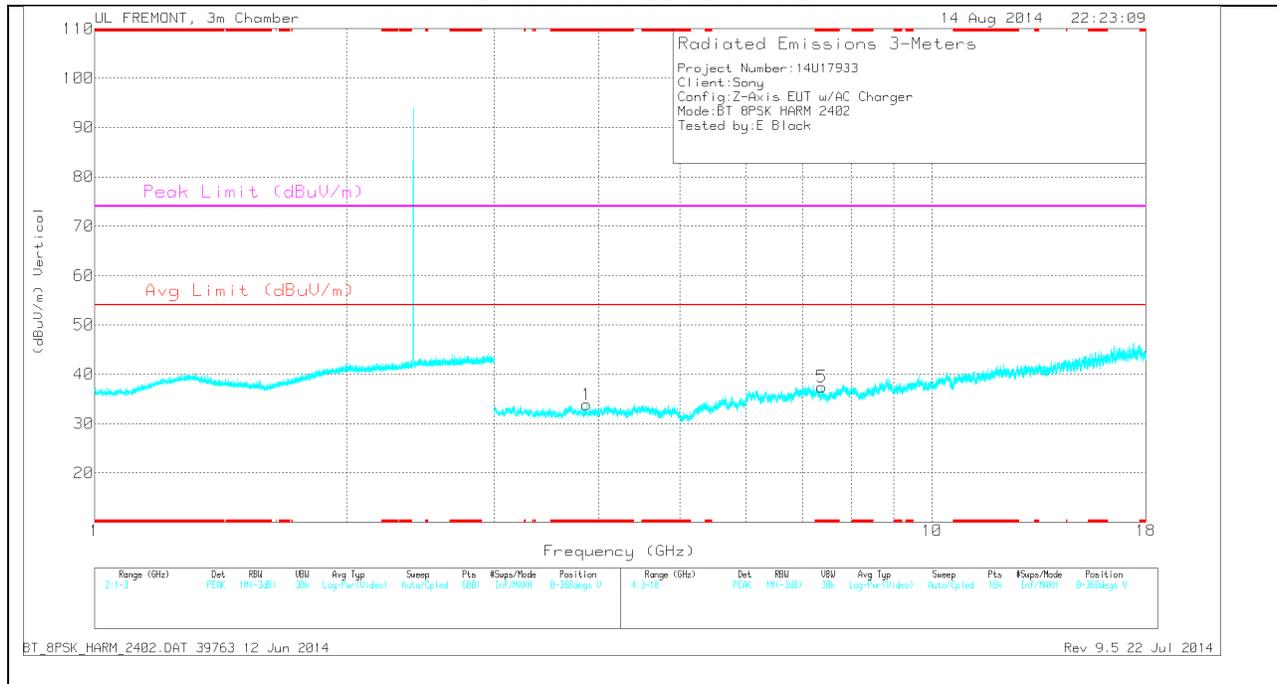
HARMONICS AND SPURIOUS EMISSIONS

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

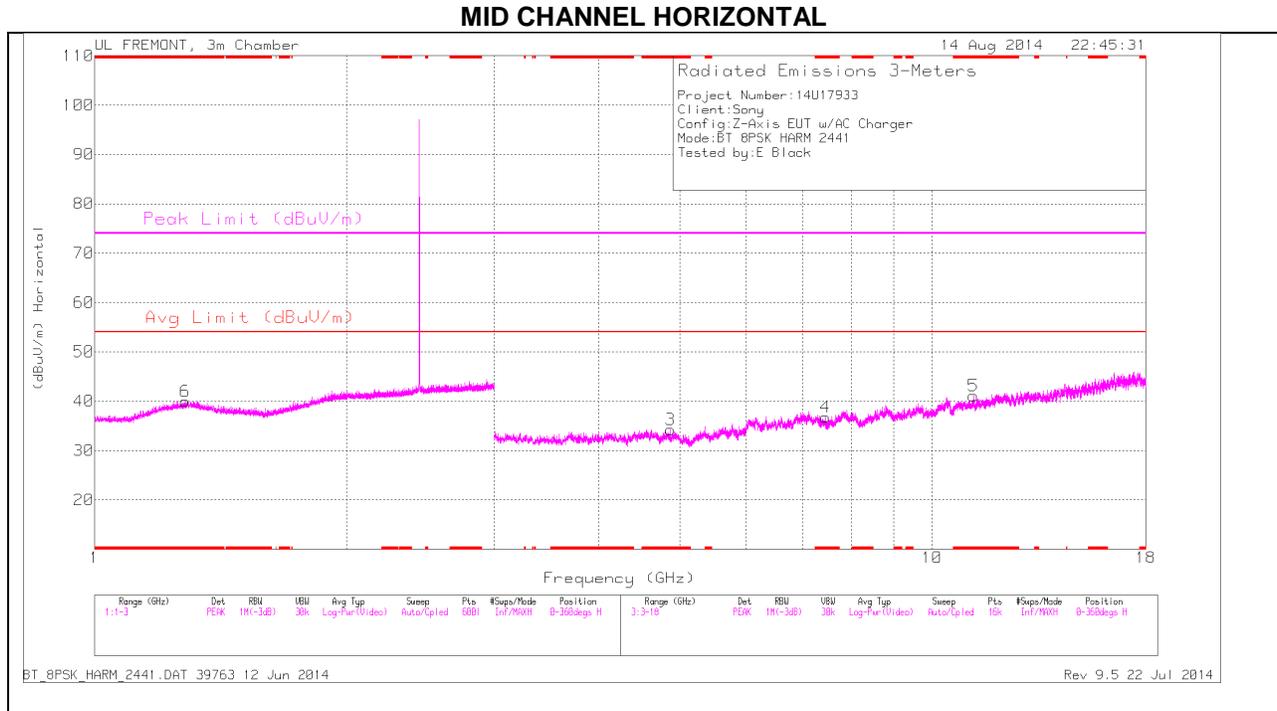
TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /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
6	* 1.283	33.93	PK	30.1	-23.8	0	40.23	-	-	74	-33.77	0-360	200	H
2	* 4.668	30.85	PK	34.1	-30.8	0	34.15	-	-	74	-39.85	0-360	100	H
3	* 9.415	28.78	PK	36.4	-26.1	0	39.08	-	-	74	-34.92	0-360	100	H
4	* 11.956	29.08	PK	39	-26	0	42.08	-	-	74	-31.92	0-360	100	H
1	* 3.87	32.08	PK	33.2	-31.4	0	33.88	-	-	74	-40.12	0-360	200	V
5	* 7.383	30.09	PK	35.7	-28.3	0	37.49	-	-	74	-36.51	0-360	200	V

PK - Peak detector

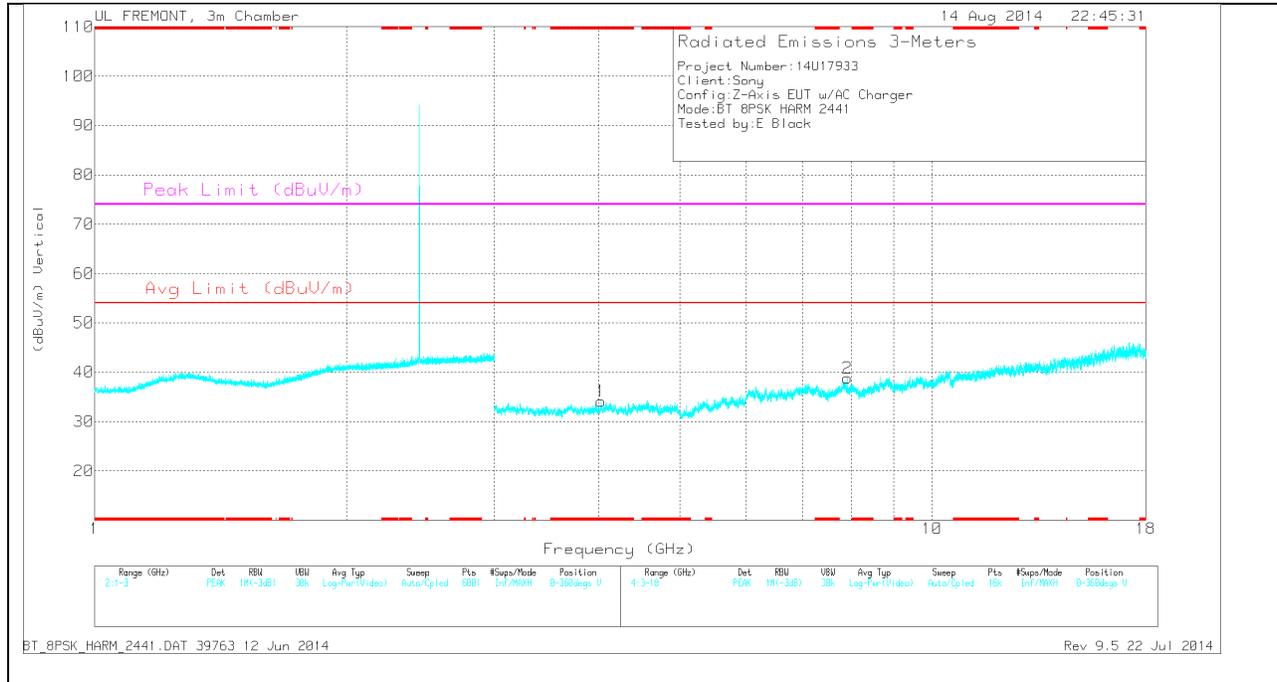
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /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
* 3.871	40.47	PK2	33.2	-31.4	0	42.27	-	-	74	-31.73	337	147	V
* 3.869	28.73	MAv1	33.2	-31.4	0	30.53	54	-23.47	-	-	337	147	V



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

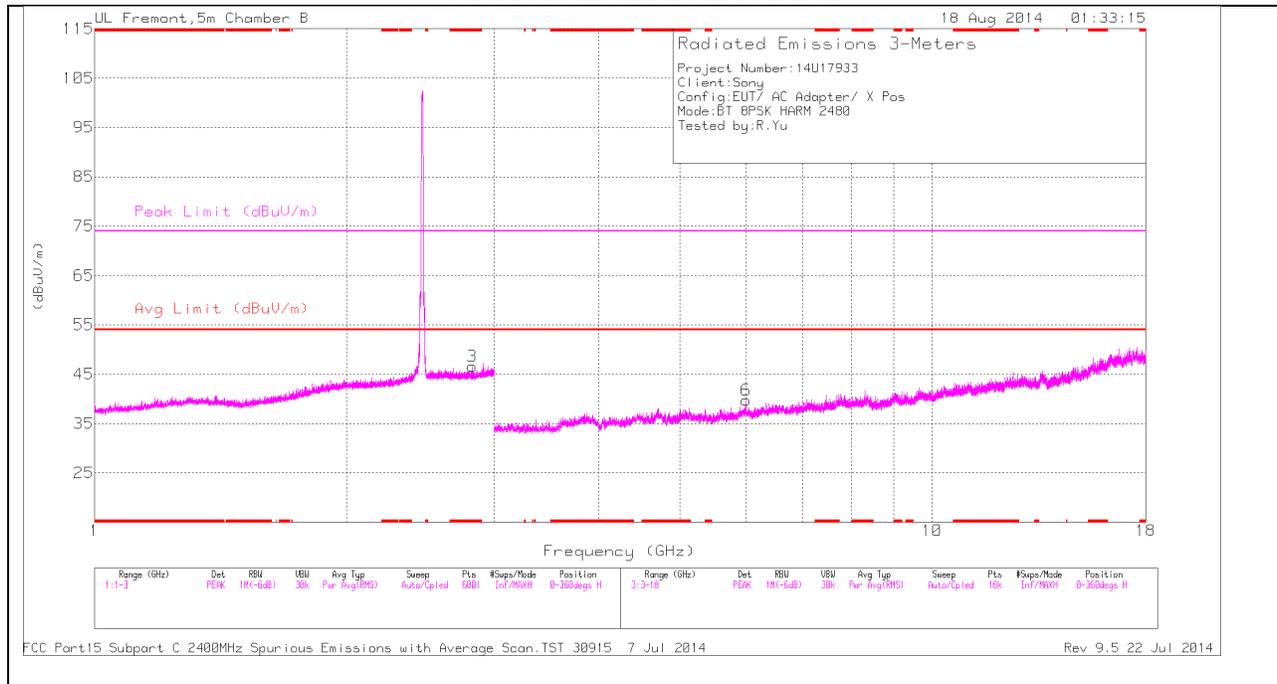
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 1.283	33.72	PK	30.1	-23.8	0	40.02	-	-	74	-33.98	0-360	100	H
3	* 4.869	30.37	PK	34	-30.1	0	34.27	-	-	74	-39.73	0-360	200	H
4	* 7.456	30.15	PK	35.7	-29.1	0	36.75	-	-	74	-37.25	0-360	200	H
5	* 11.205	28.18	PK	37.9	-25	0	41.08	-	-	74	-32.92	0-360	200	H
1	* 4.025	32.26	PK	33.4	-31.5	0	34.16	-	-	74	-39.84	0-360	100	V
2	7.92	30.78	PK	35.8	-27.8	0	38.78	-	-	-	-	0-360	100	V

PK - Peak detector

RADIATED EMISSIONS

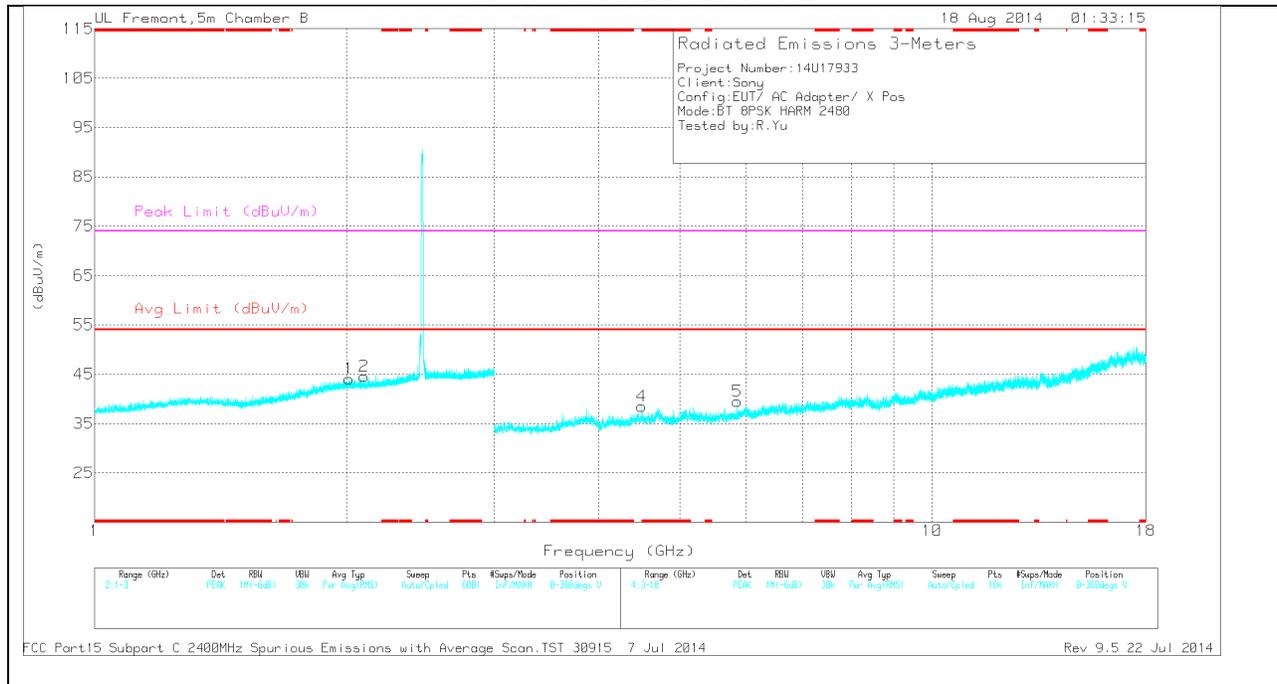
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/ Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.206	36.95	PK3	37.9	-25	0	49.85	-	-	74	-24.15	87	221	H
* 11.207	24.5	VB1T	37.9	-25	0	37.4	54	-16.6	-	-	87	221	H

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 T345 (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	* 2.825	36.18	PK	32.4	-22	46.58	-	-	74	-27.42	0-360	101	H
4	* 4.504	33.68	PK	34	-29.2	38.48	-	-	74	-35.52	0-360	101	V
1	2.012	35.89	PK	31.3	-23.1	44.09	-	-	-	-	0-360	101	V
2	2.097	36.26	PK	31.2	-22.9	44.56	-	-	-	-	0-360	101	V
5	5.854	34.16	PK	34.8	-29.4	39.56	-	-	-	-	0-360	101	V
6	5.994	33.14	PK	35.2	-28.6	39.74	-	-	-	-	0-360	199	H

PK - Peak detector

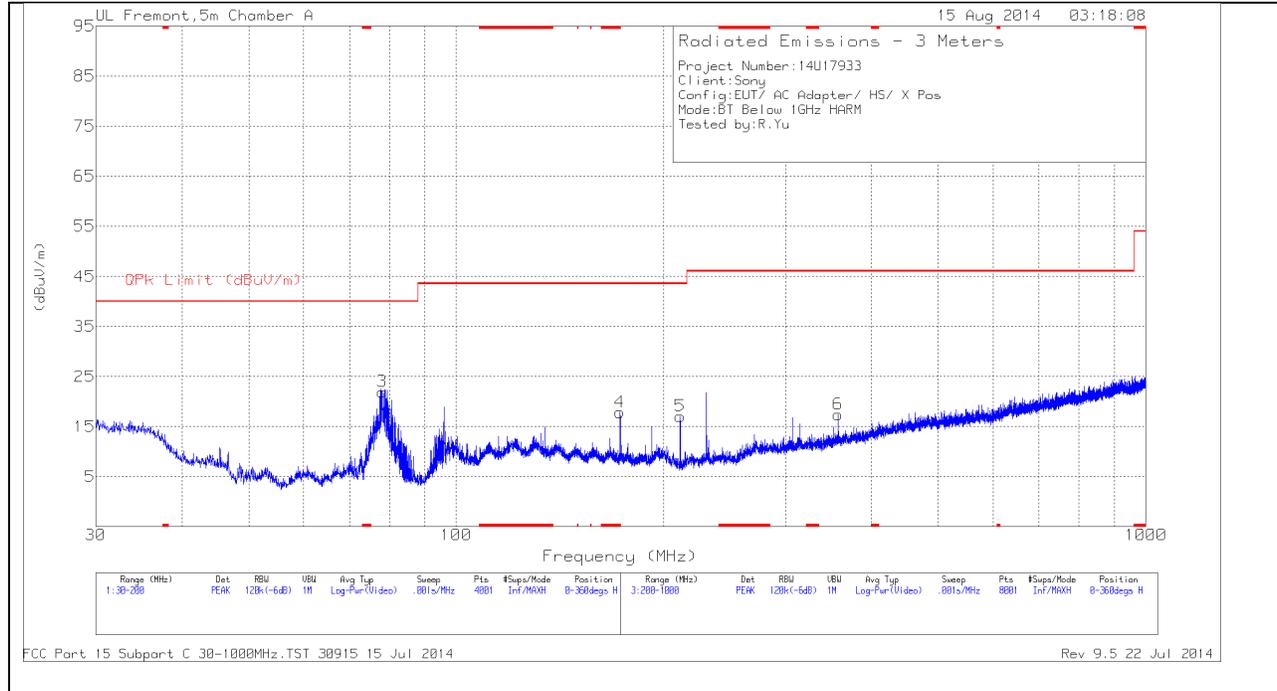
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
5.856	39.27	PK3	34.8	-29.4	44.67	-	-	-	-	1	100	V
5.856	27.14	VB1T	34.8	-29.4	32.54	-	-	-	-	1	100	V

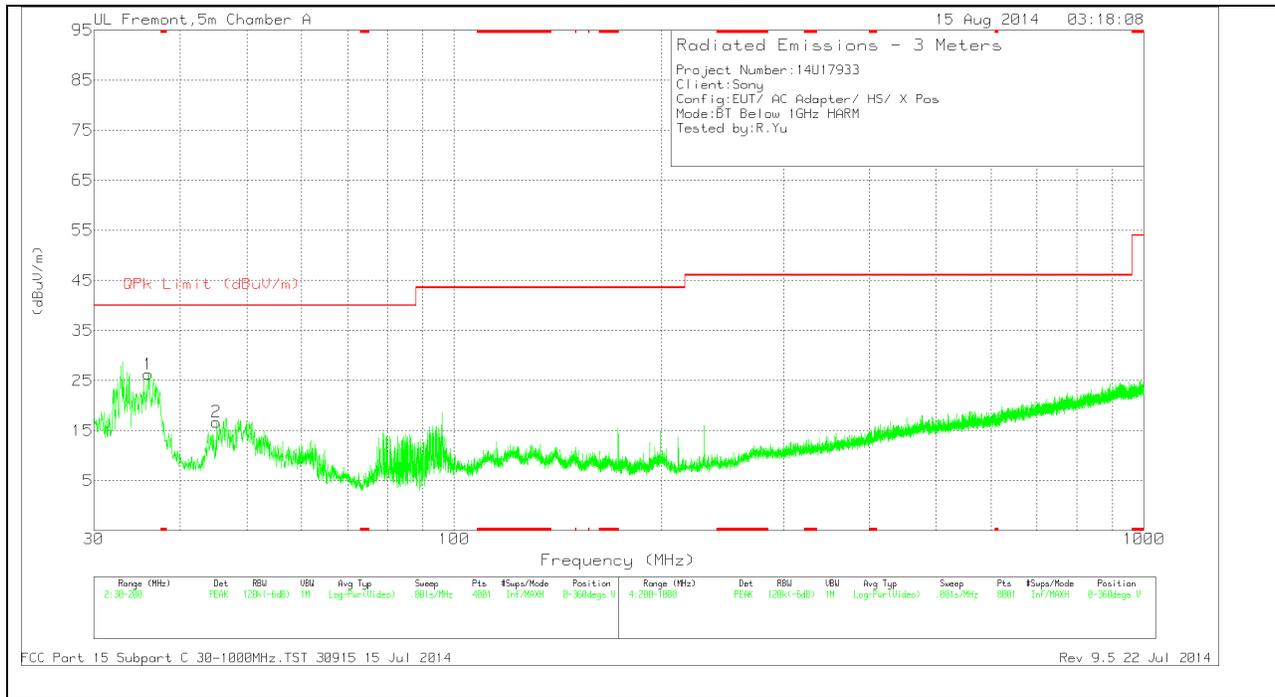
9.3. WORST-CASE BELOW 1 GHz

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	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 172.8	36.17	PK	11.7	-30	17.87	43.52	-25.65	0-360	200	H
1	35.9925	40.07	PK	17.3	-31.1	26.27	40	-13.73	0-360	101	V
2	45.1725	36.92	PK	10.5	-30.7	16.72	40	-23.28	0-360	101	V
3	78.0675	44.66	PK	7.8	-30.5	21.96	40	-18.04	0-360	400	H
5	211.2	36.4	PK	10.5	-29.8	17.1	43.52	-26.42	0-360	101	H
6	357.9	31.77	PK	14.6	-28.9	17.47	46.02	-28.55	0-360	200	H

PK - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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.

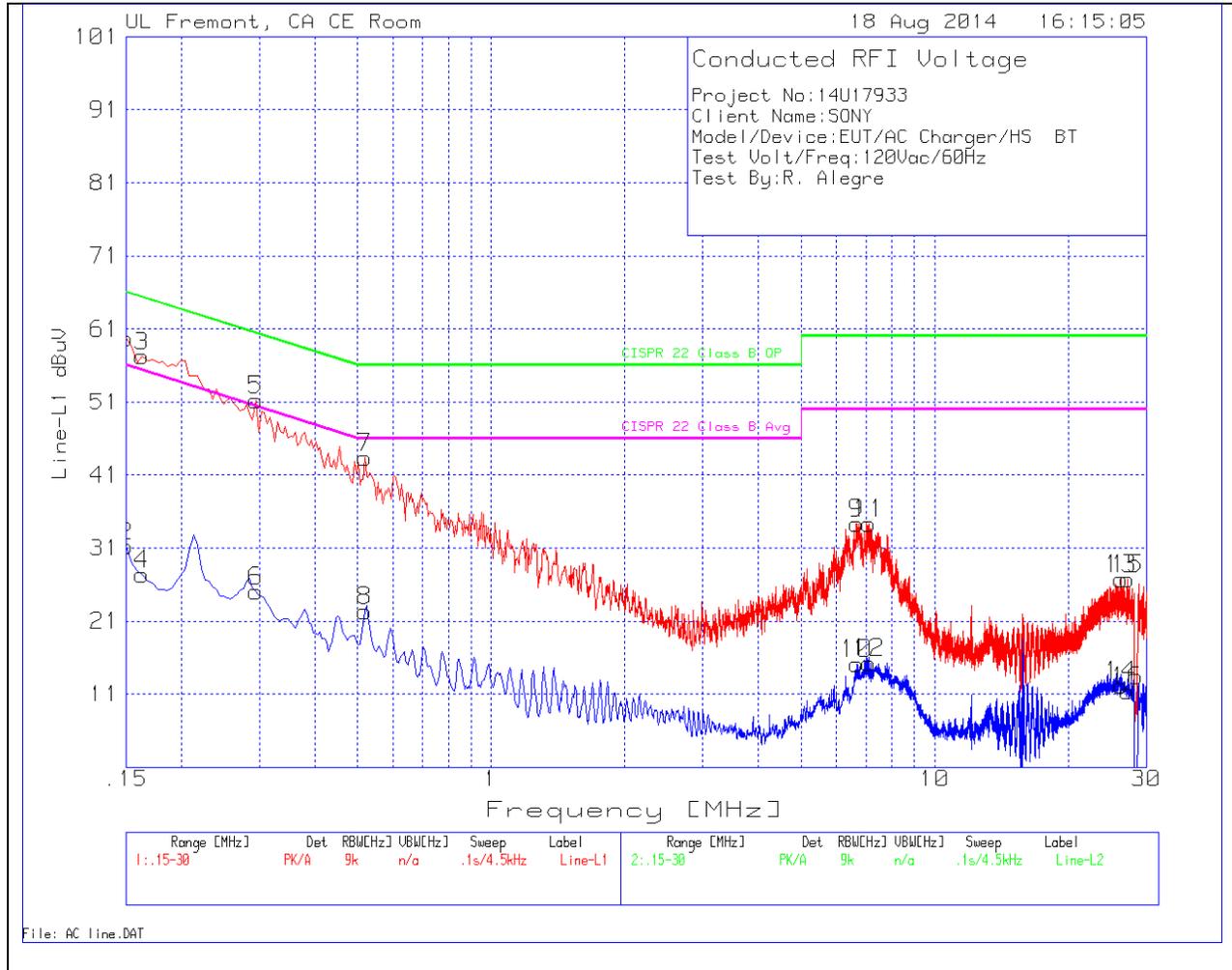
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT

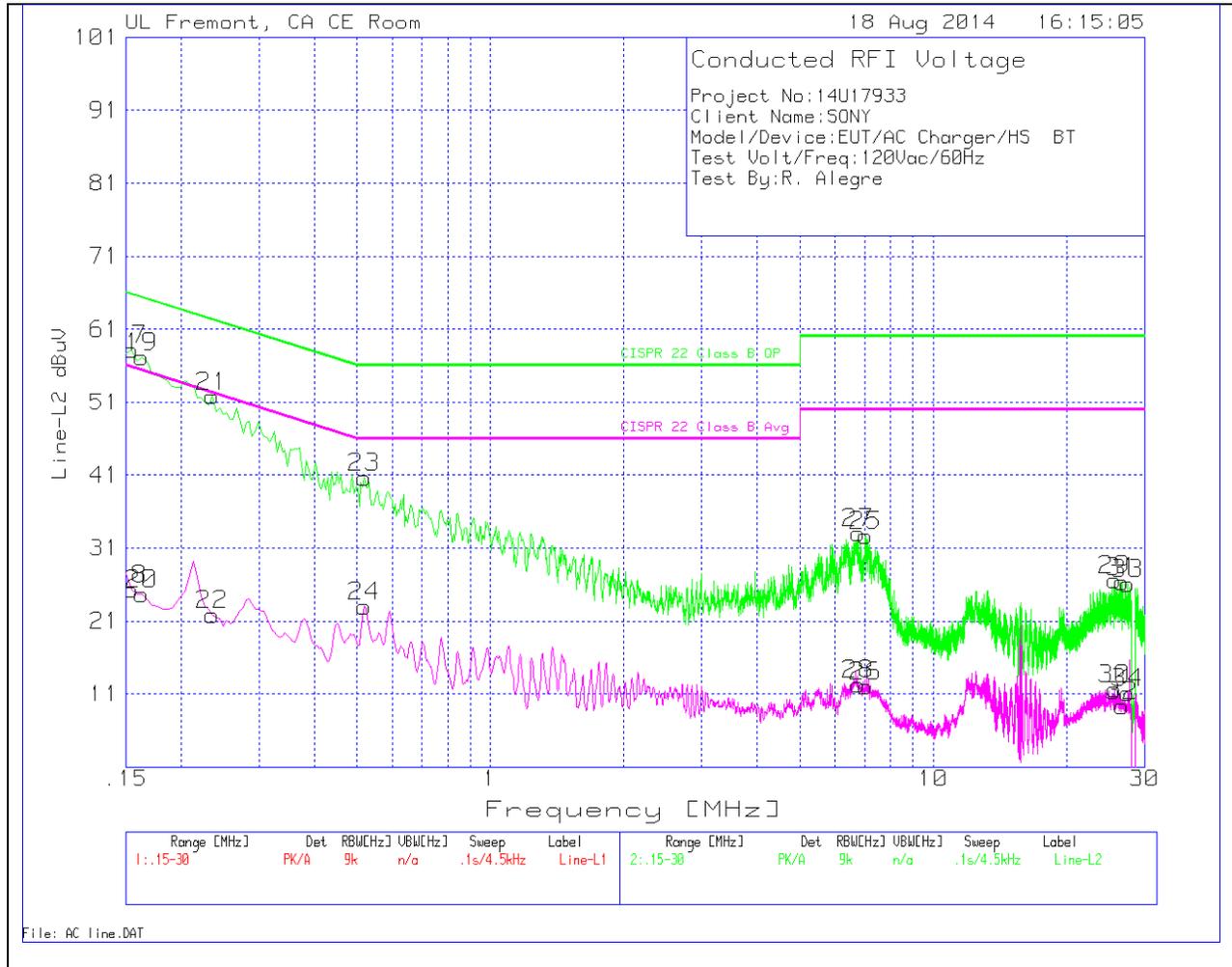


LINE 1 RESULTS

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	.15	58.31	PK	1.4	0	59.71	66	-6.29	-	-
2	.15	29.79	Av	1.4	0	31.19	-	-	56	-24.81
3	.1635	56.03	PK	1.2	0	57.23	65.3	-8.07	-	-
4	.1635	26.18	Av	1.2	0	27.38	-	-	55.3	-27.92
5	.294	50.58	PK	.6	0	51.18	60.4	-9.22	-	-
6	.294	24.47	Av	.6	0	25.07	-	-	50.4	-25.33
7	.519	43.12	PK	.3	0	43.42	56	-12.58	-	-
8	.519	22.07	Av	.3	0	22.37	-	-	46	-23.63
9	6.684	34.03	PK	.2	.1	34.33	60	-25.67	-	-
10	6.684	14.88	Av	.2	.1	15.18	-	-	50	-34.82
11	7.098	34.09	PK	.2	.1	34.39	60	-25.61	-	-
12	7.098	14.99	Av	.2	.1	15.29	-	-	50	-34.71
13	26.3175	26.17	PK	.3	.3	26.77	60	-33.23	-	-
14	26.3175	11.56	Av	.3	.3	12.16	-	-	50	-37.84
15	27.1545	26.1	PK	.3	.3	26.7	60	-33.3	-	-
16	27.1545	10.83	Av	.3	.3	11.43	-	-	50	-38.57

LINE 2 PLOT



LINE 2 RESULTS

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)
17	.1545	56.83	PK	1.4	0	58.23	65.8	-7.57	-	-
18	.1545	23.97	Av	1.4	0	25.37	-	-	55.8	-30.43
19	.1635	55.91	PK	1.3	0	57.21	65.3	-8.09	-	-
20	.1635	23.33	Av	1.3	0	24.63	-	-	55.3	-30.67
21	.2355	51.01	PK	.8	0	51.81	62.3	-10.49	-	-
22	.2355	21.04	Av	.8	0	21.84	-	-	52.3	-30.46
23	.519	40.32	PK	.4	0	40.72	56	-15.28	-	-
24	.519	22.59	Av	.4	0	22.99	-	-	46	-23.01
27	6.7605	32.76	PK	.2	.1	33.06	60	-26.94	-	-
28	6.7605	12.04	Av	.2	.1	12.34	-	-	50	-37.66
25	7.0485	32.34	PK	.2	.1	32.64	60	-27.36	-	-
26	7.0485	11.72	Av	.2	.1	12.02	-	-	50	-37.98
29	25.6155	26.07	PK	.3	.3	26.67	60	-33.33	-	-
30	25.6155	11.02	Av	.3	.3	11.62	-	-	50	-38.38
31	26.7315	25.75	PK	.3	.3	26.35	60	-33.65	-	-
32	26.7315	8.78	Av	.3	.3	9.38	-	-	50	-40.62
33	27.483	25.52	PK	.3	.3	26.12	60	-33.88	-	-
34	27.483	10.54	Av	.3	.3	11.14	-	-	50	-38.86