



FCC 47 CFR PART 15 SUBPART C

**CERTIFICATION TEST REPORT
FOR**

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

MODEL NUMBER: SM-G8508S

FCC ID: A3LSMG8508S

REPORT NUMBER: 14U18322-2 REVISION A

ISSUE DATE: AUG 14, 2014

Prepared for

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	07/19/14	Initial issue	P. Zhang
A	8/14/14	Updated antenna information	P. Zhang

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

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

MODEL: SM-G8508S

SERIAL NUMBER: FL-280-D (Conducted); FL-280-B (Radiated)

DATE TESTED: JULY 17 -19, 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, 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
☒ Chamber A	☐ Chamber D
☒ Chamber B	☐ Chamber E
☒ Chamber C	☐ Chamber F

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:

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

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

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	9.49	8.89
2402 - 2480	Enhanced 8PSK	9.71	9.35

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 -3.64 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	SAMSUNG	EP-TA50CWC	N/A	N/A
Earphone	SAMSUNG	EO-EG900BW	N/A	N/A

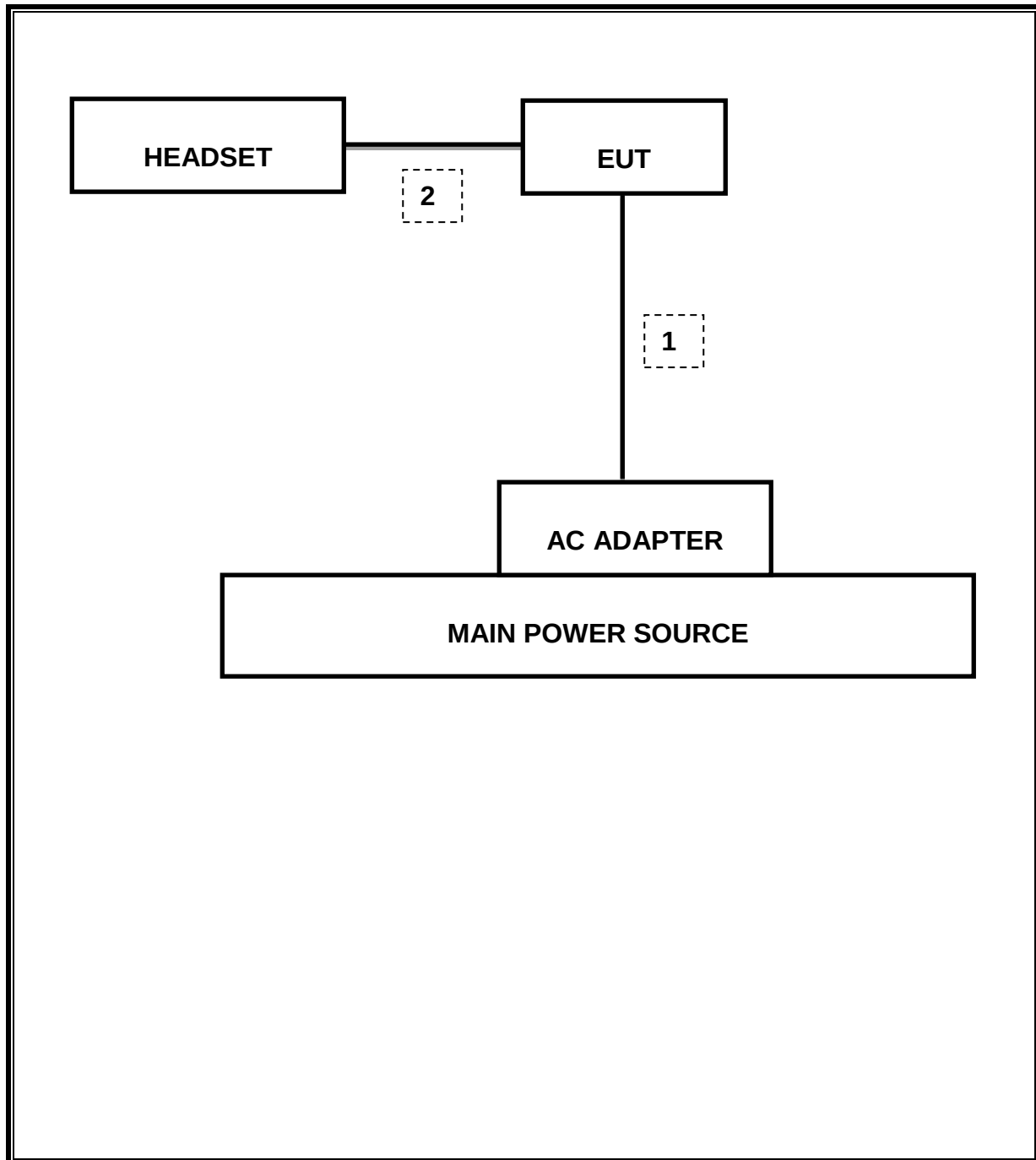
I/O CABLES

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	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

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	1.26MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-44.78dBm
15.247 (b)(1)	RSS-210 A8.4	TX conducted output power	<21dBm		Pass	9.71dBm
15.247 (a)(1)	RSS-210 A8.1(b)	Hopping frequency separation	> 25KHz		Pass	1MHz
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	0.343sec
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	42.57dBuV
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	45.09dBuV/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.

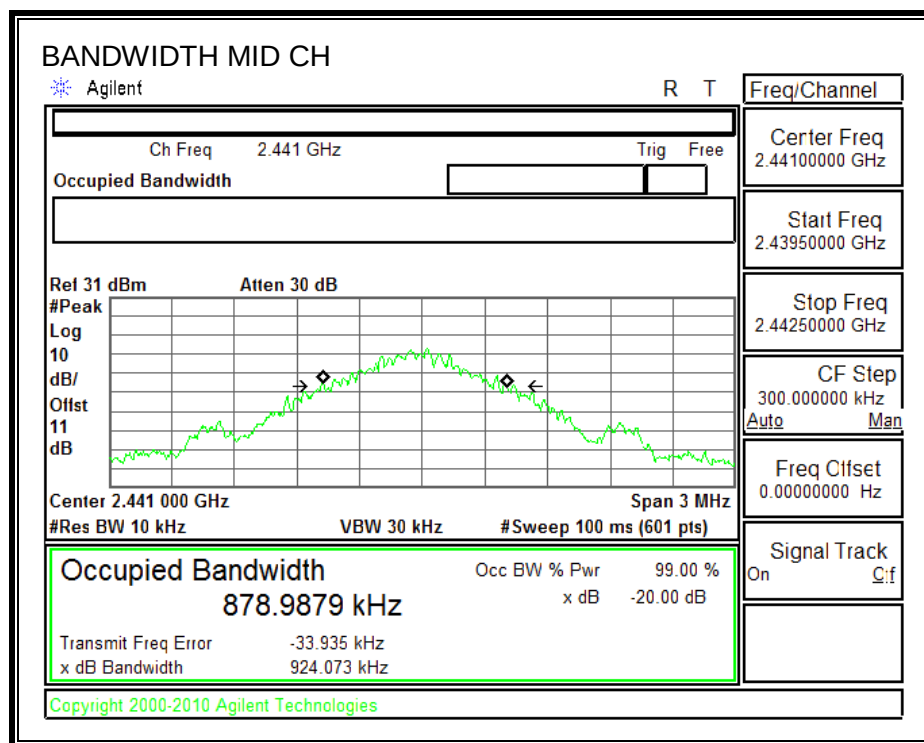
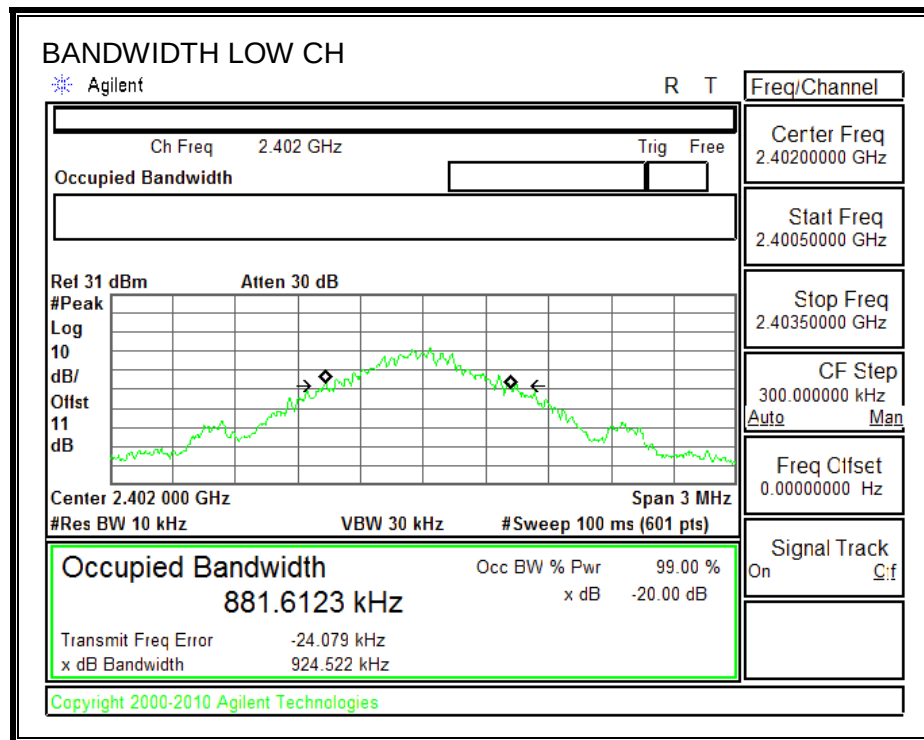
RESULTS

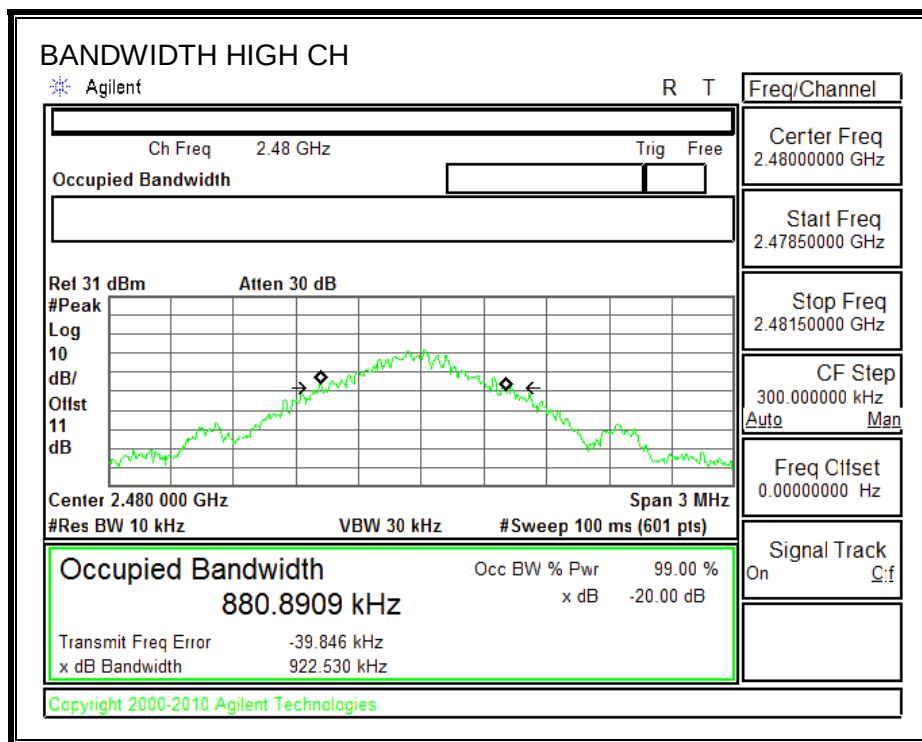
8.1.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	0.925	0.937
Middle	2441	0.924	0.874
High	2480	0.923	0.876
Worst		0.925	0.937

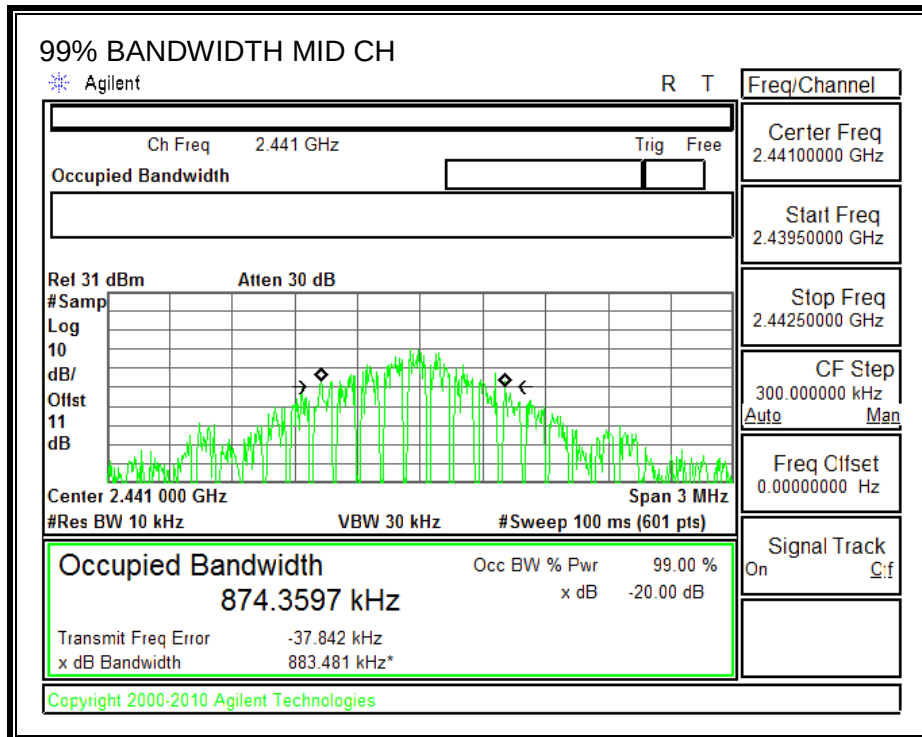
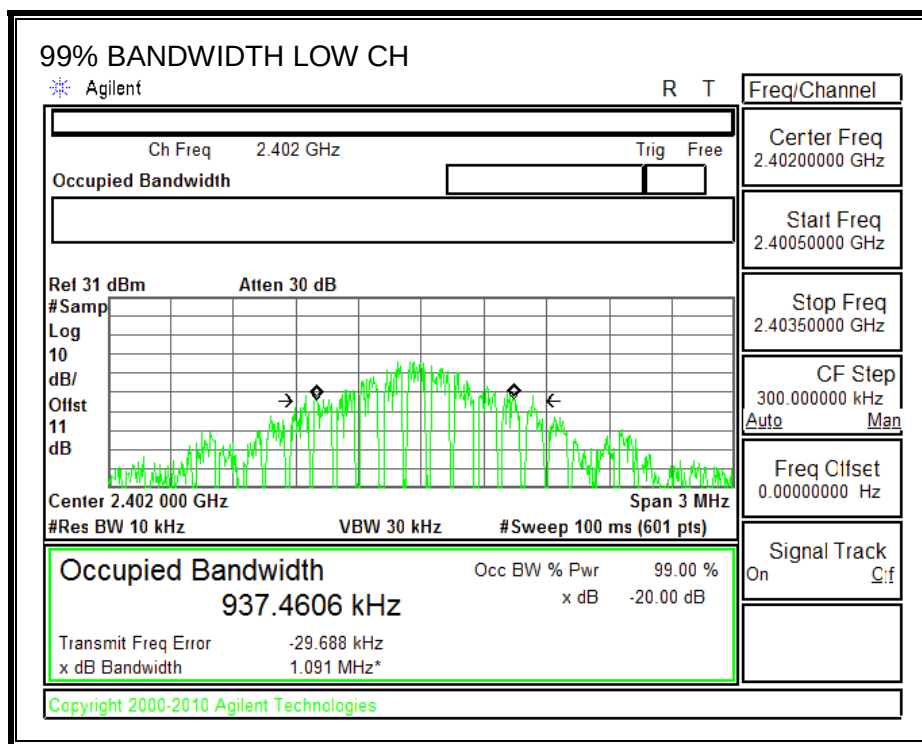
8.1.1. ENHANCED DATA RATE 8PSK MODULATION

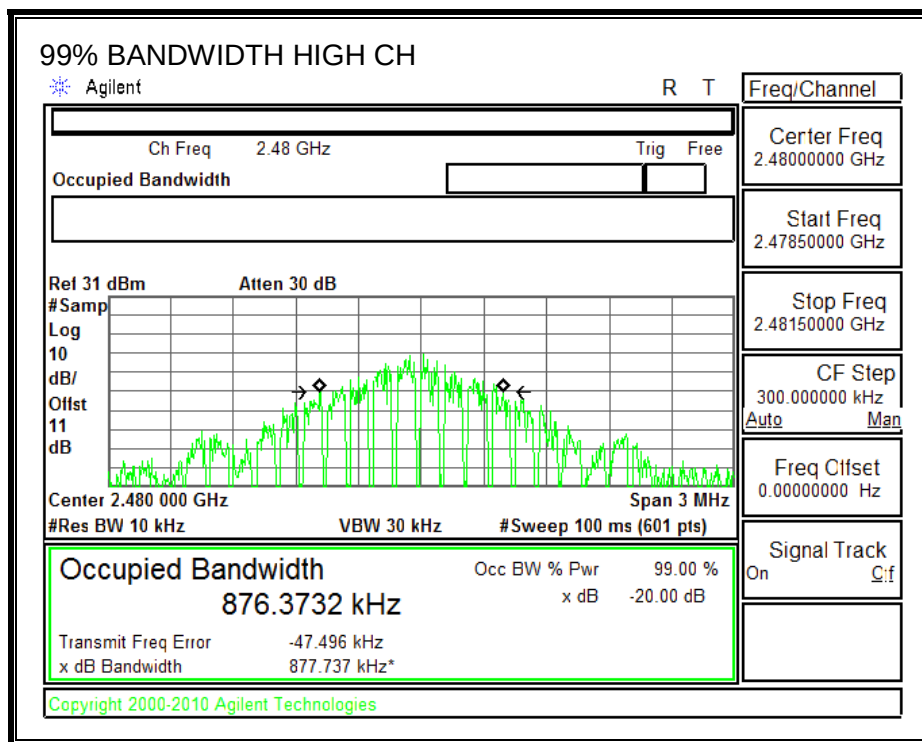
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	1.34	1.26
Middle	2441	1.34	1.25
High	2480	1.32	1.2
Worst		1.34	1.26

GFSK 20 dB BANDWIDTH

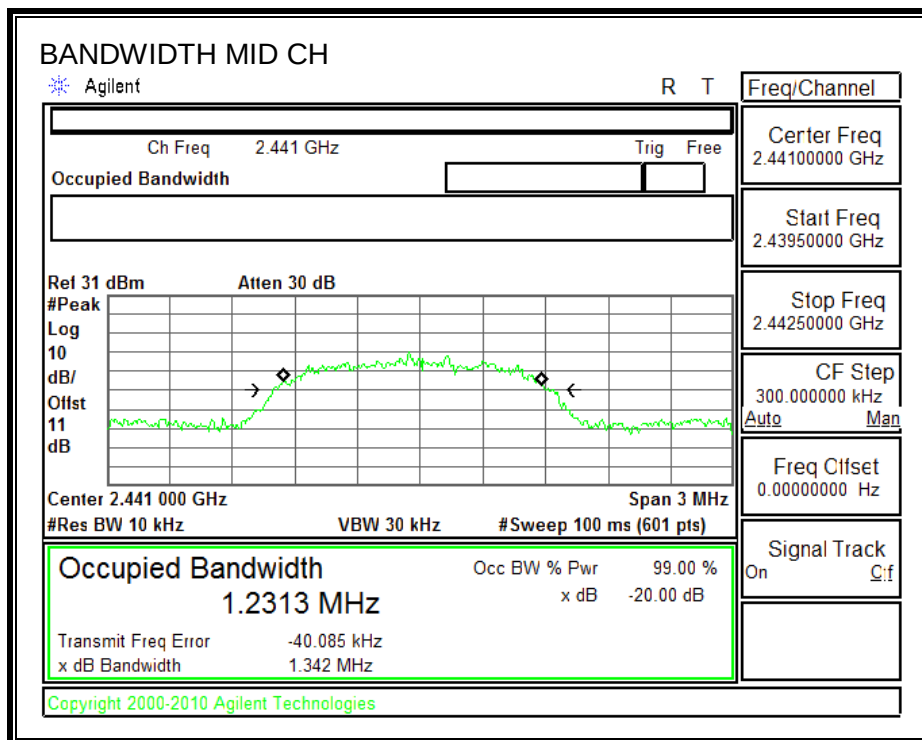
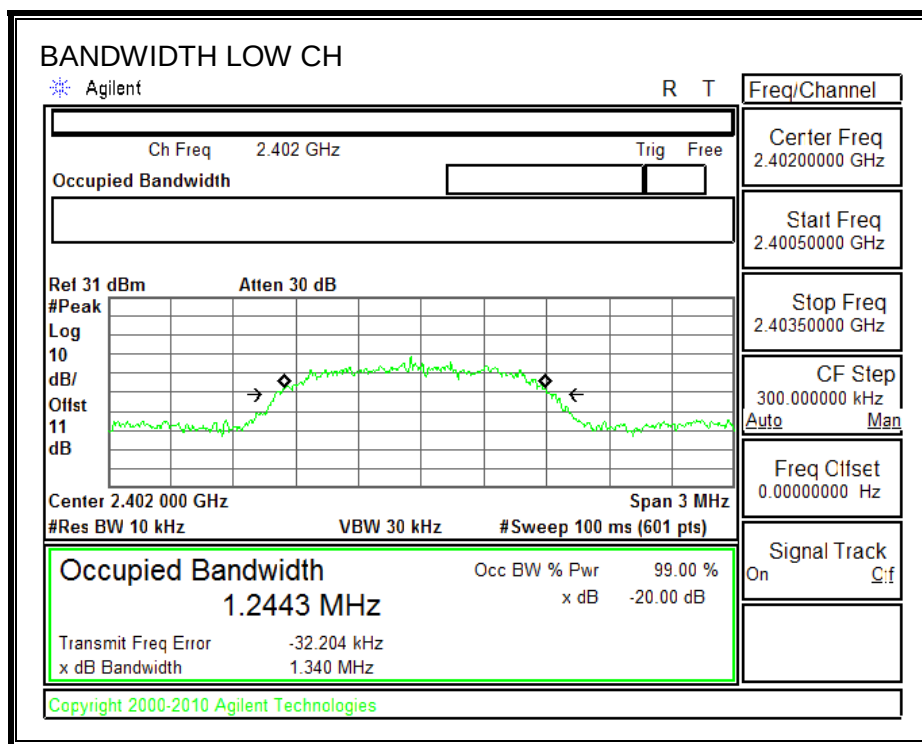


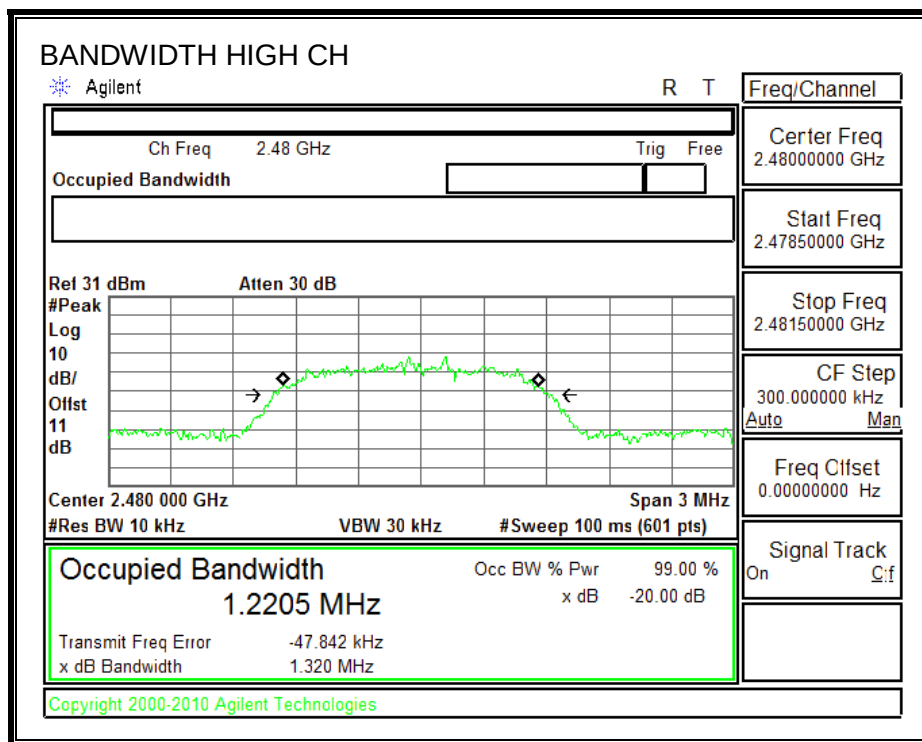
GFSK 99% BANDWIDTH



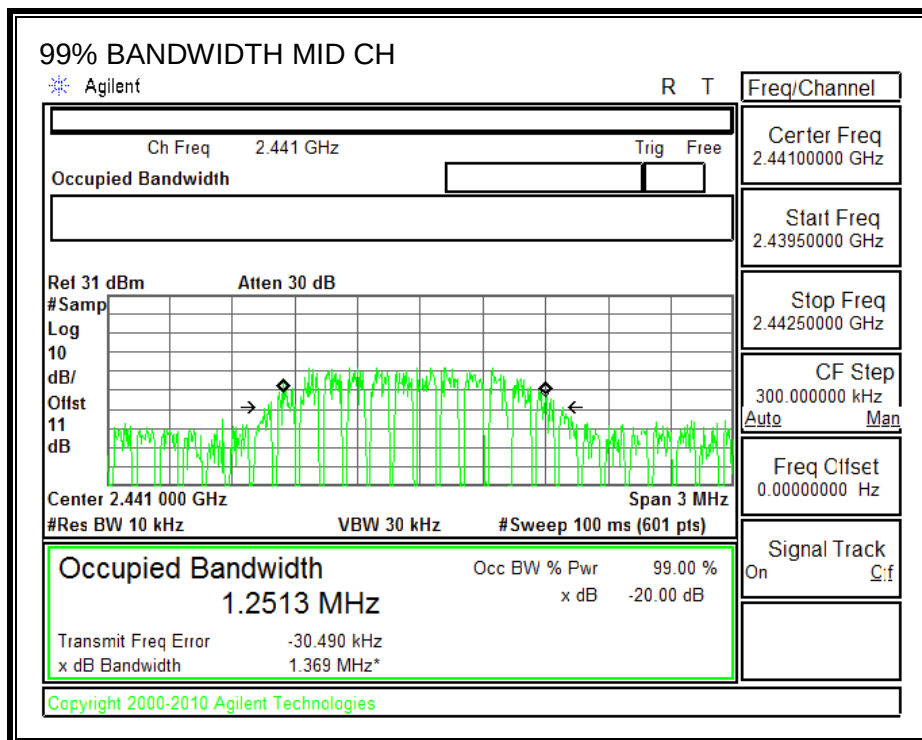
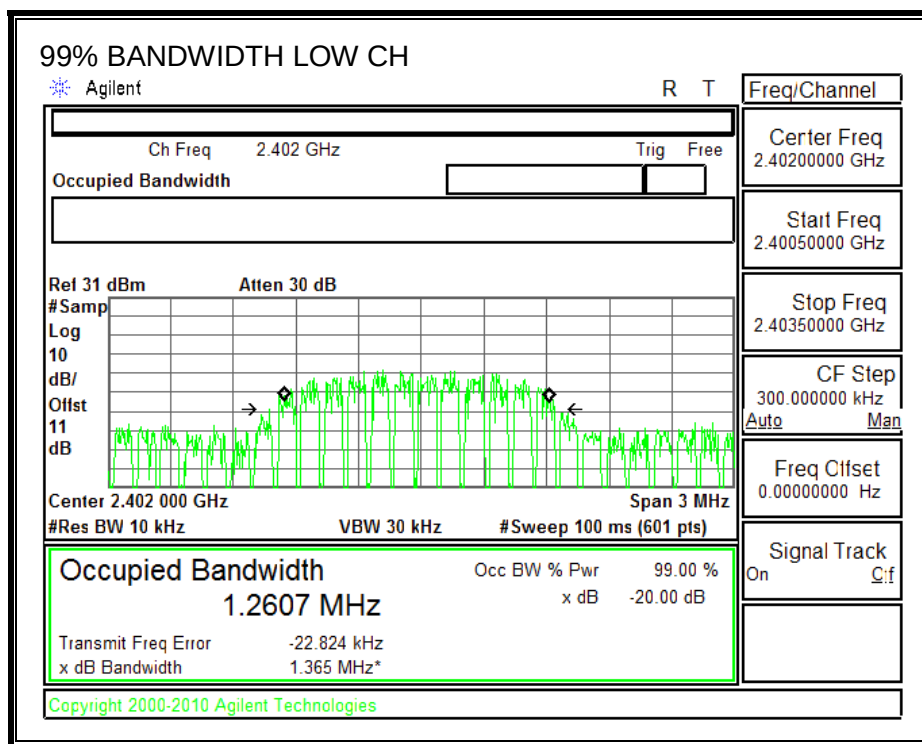


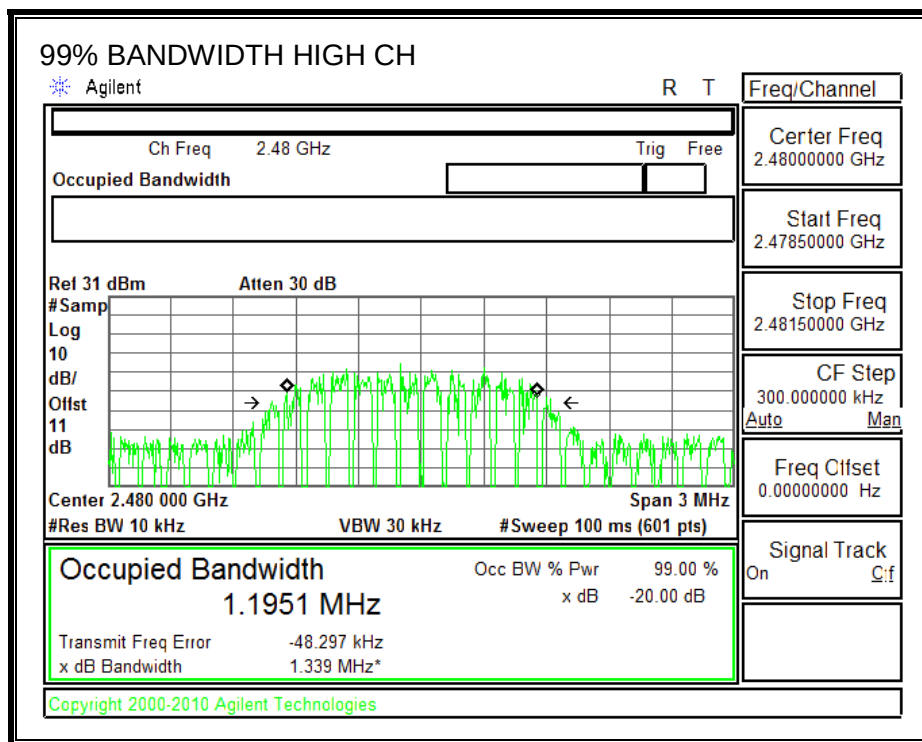
8PSK 20 dB BANDWIDTH





8PSK 99% BANDWIDTH





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.

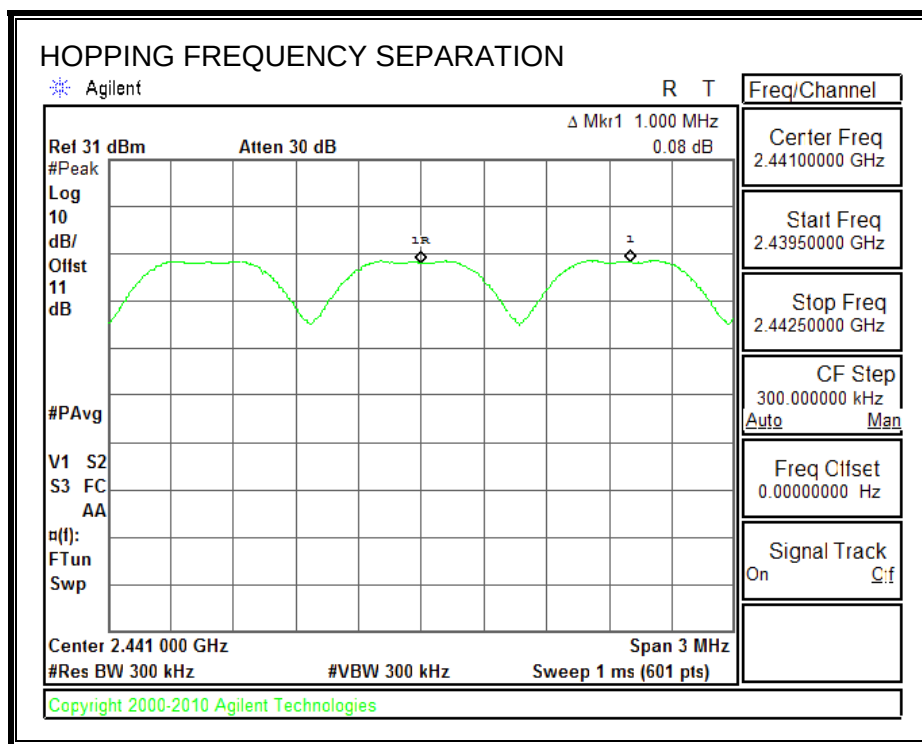
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than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



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.

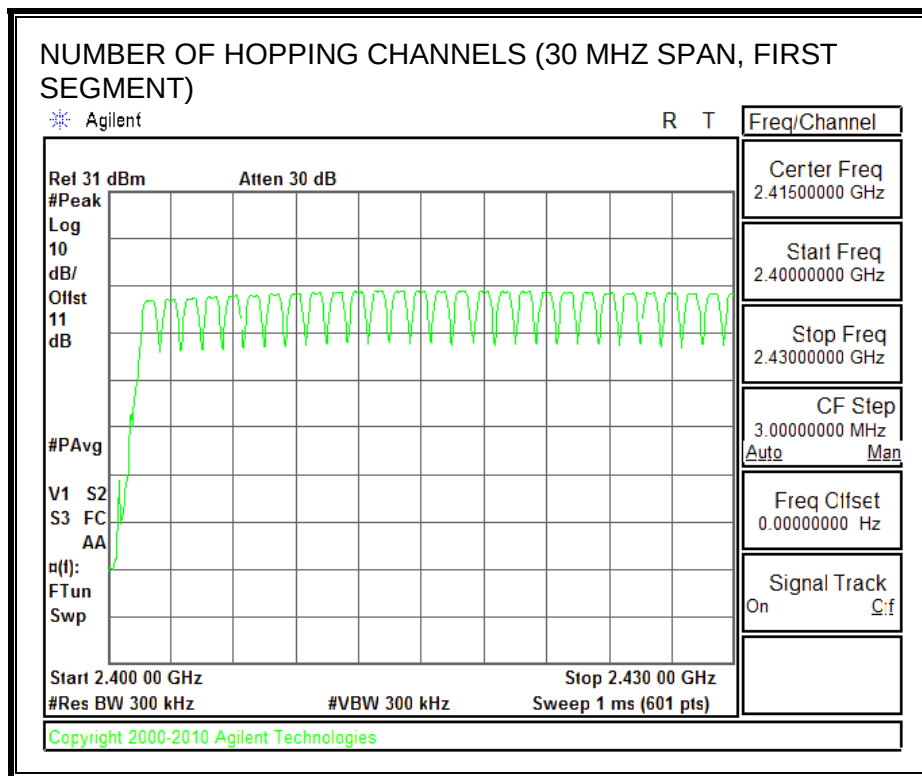
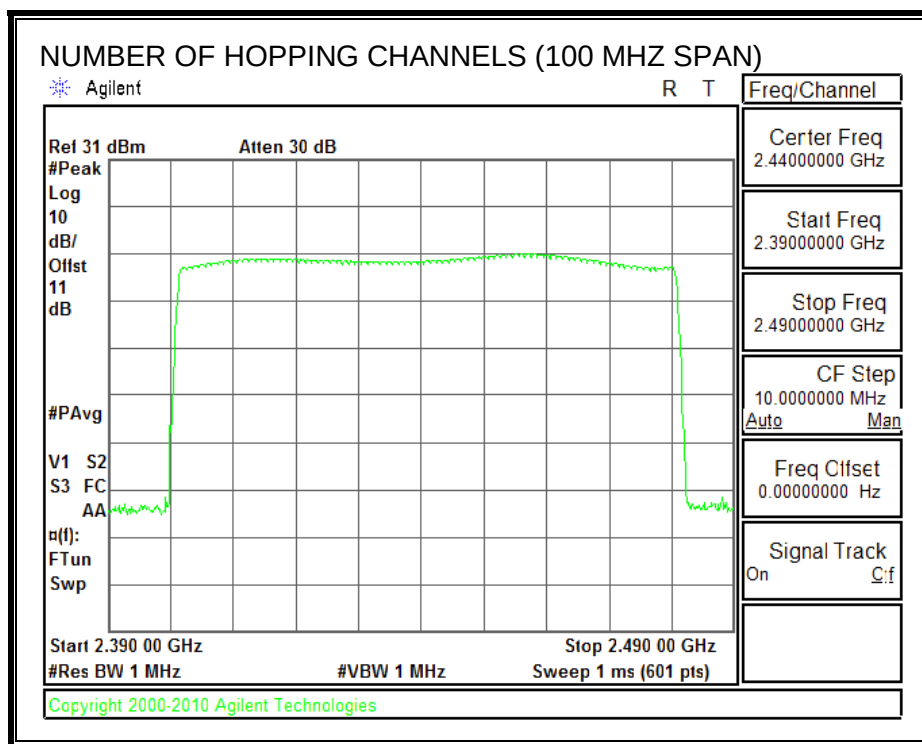
TEST PROCEDURE

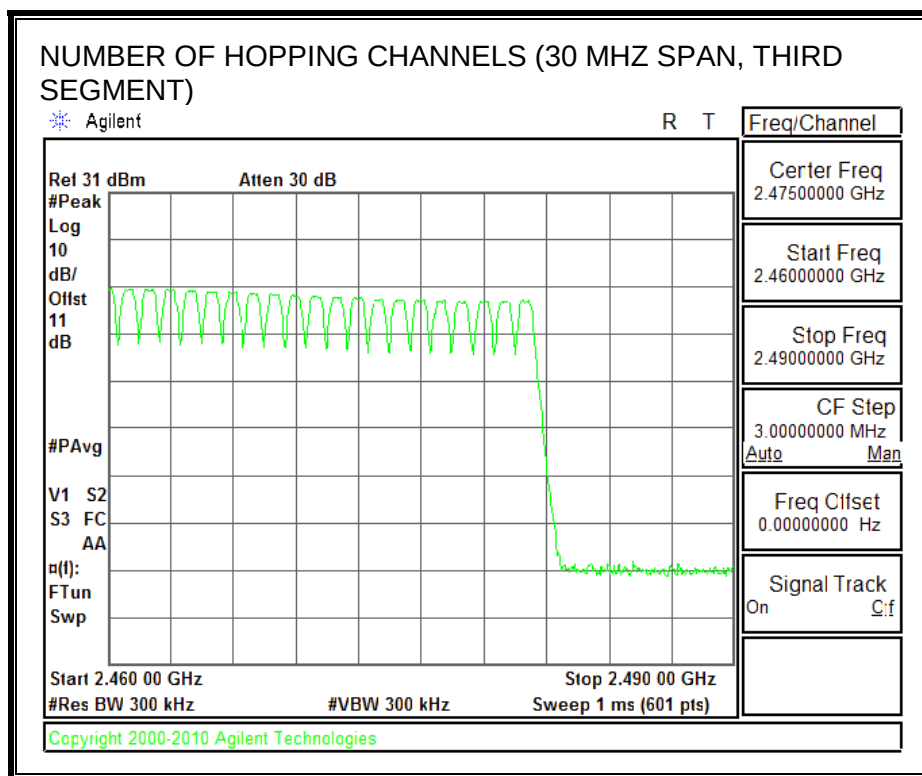
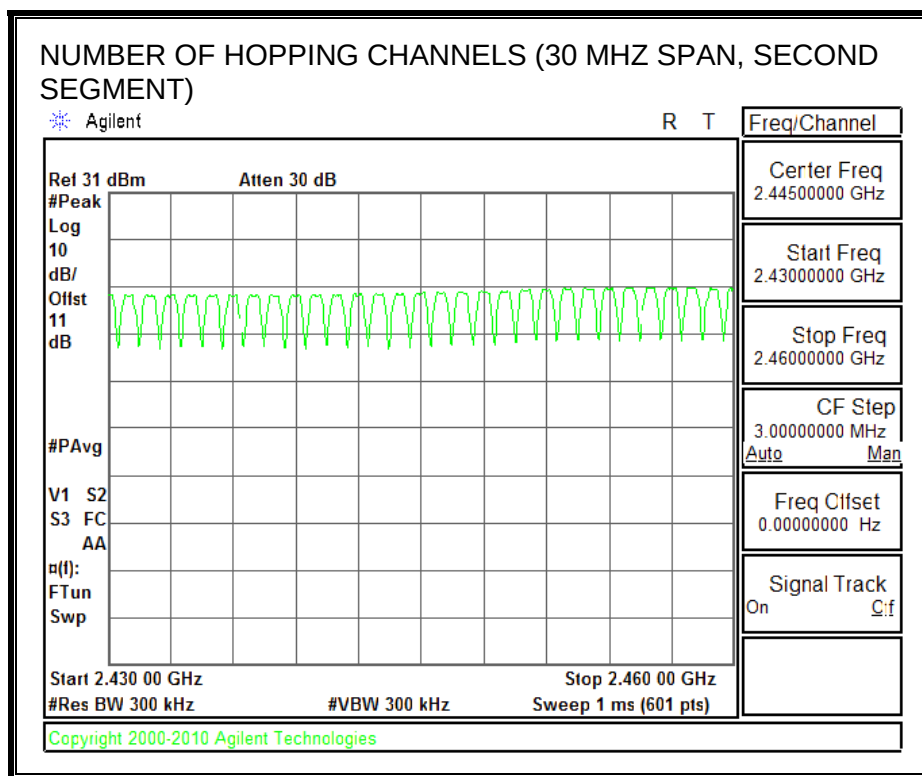
DA 00-705: The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

Normal Mode: 79 Channels observed.

NUMBER OF HOPPING CHANNELS





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.

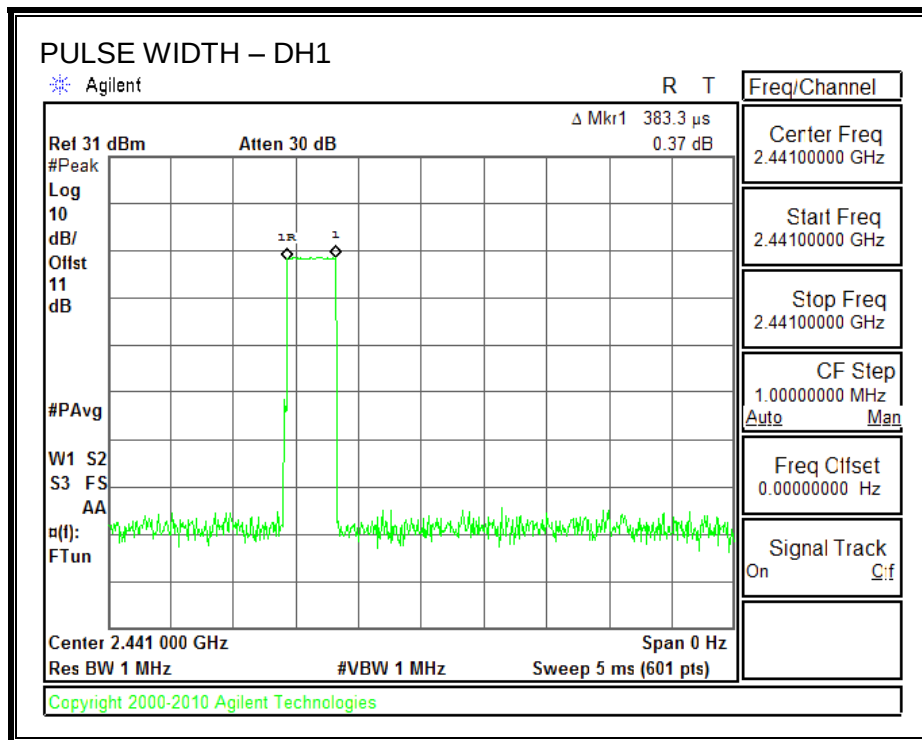
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{pulse width}$.

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

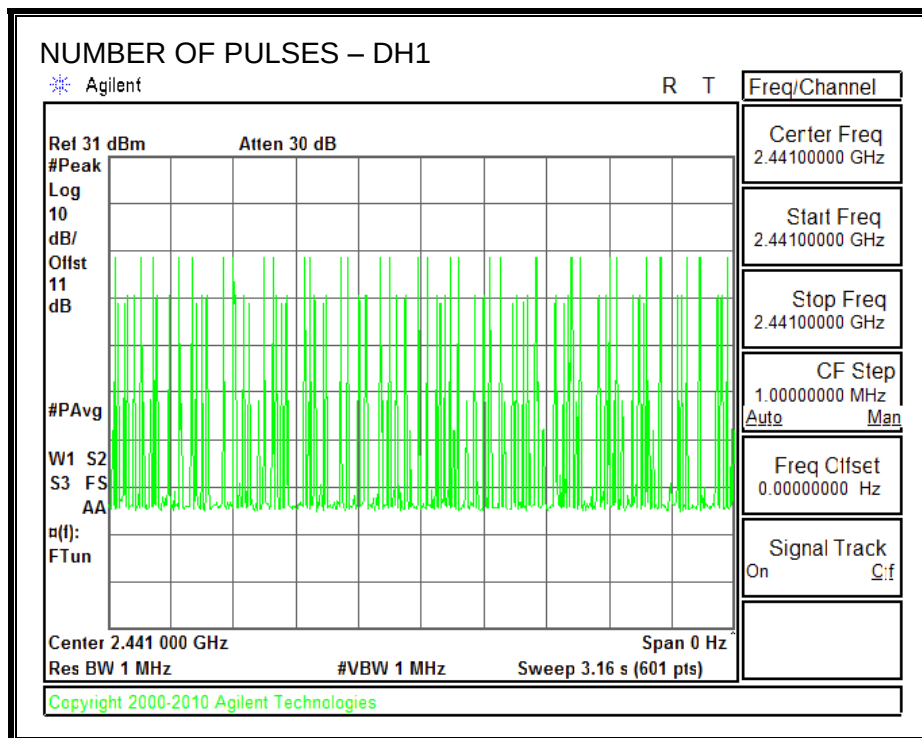
RESULTS

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	0.3833	31	0.119	0.4	-0.281
DH3	1.642	17	0.279	0.4	-0.121
DH5	2.856	10	0.286	0.4	-0.114
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	0.3833	7.75	0.030	0.4	-0.370
DH3	1.642	4.25	0.070	0.4	-0.330
DH5	2.856	3	0.086	0.4	-0.314

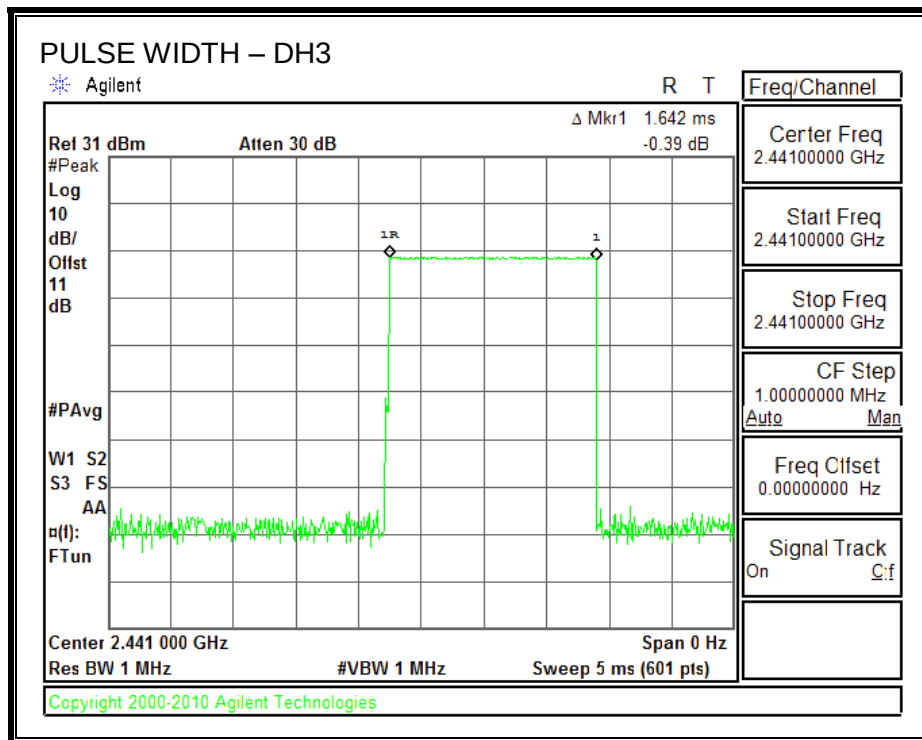
PULSE WIDTH - DH1



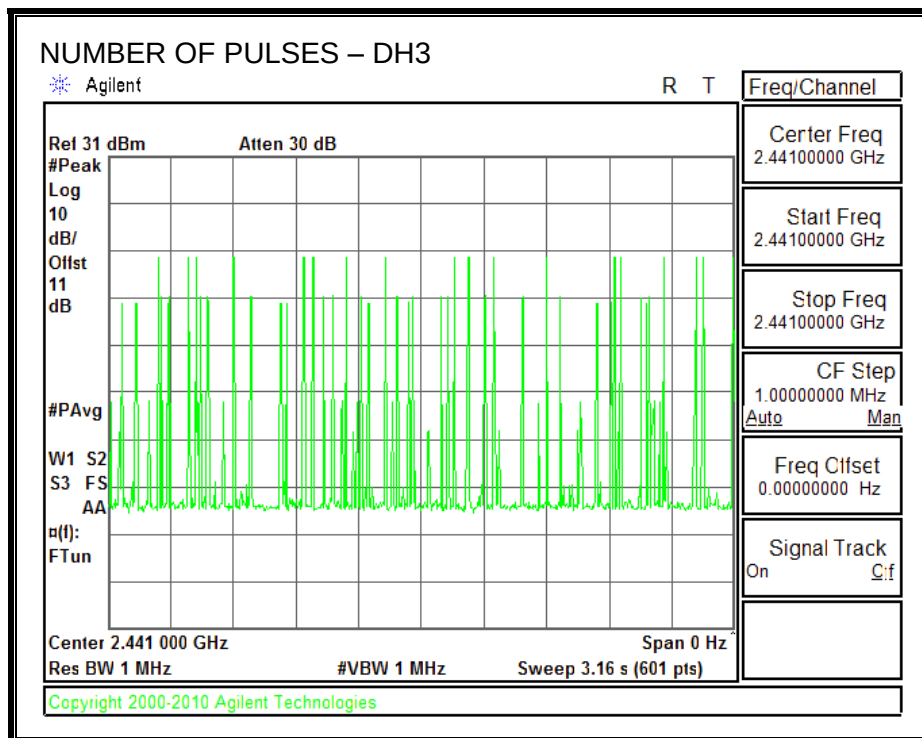
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD - DH1



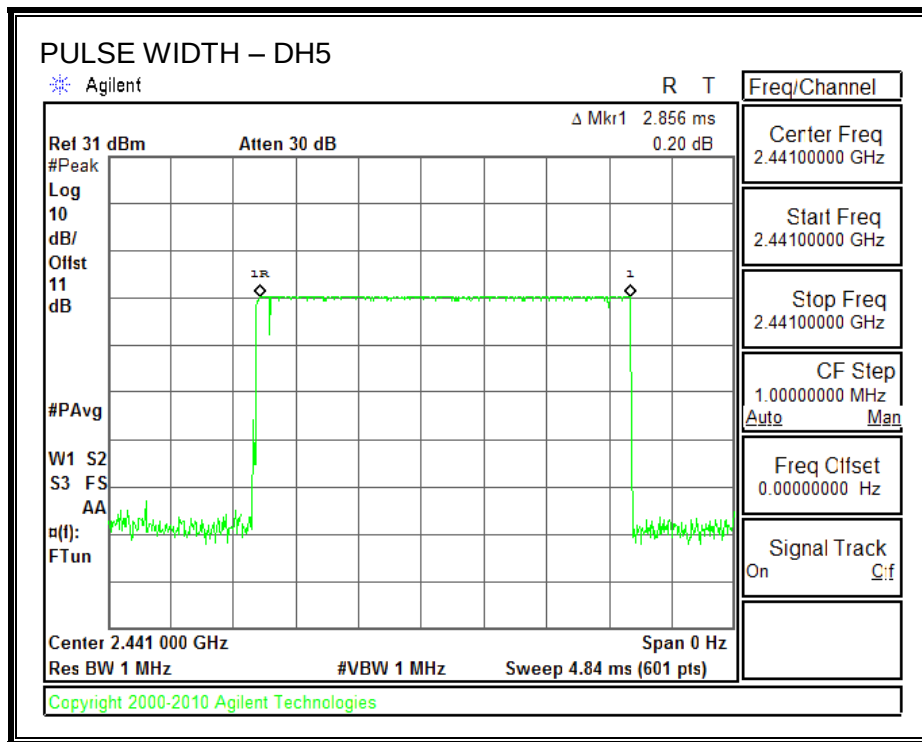
PULSE WIDTH – DH3



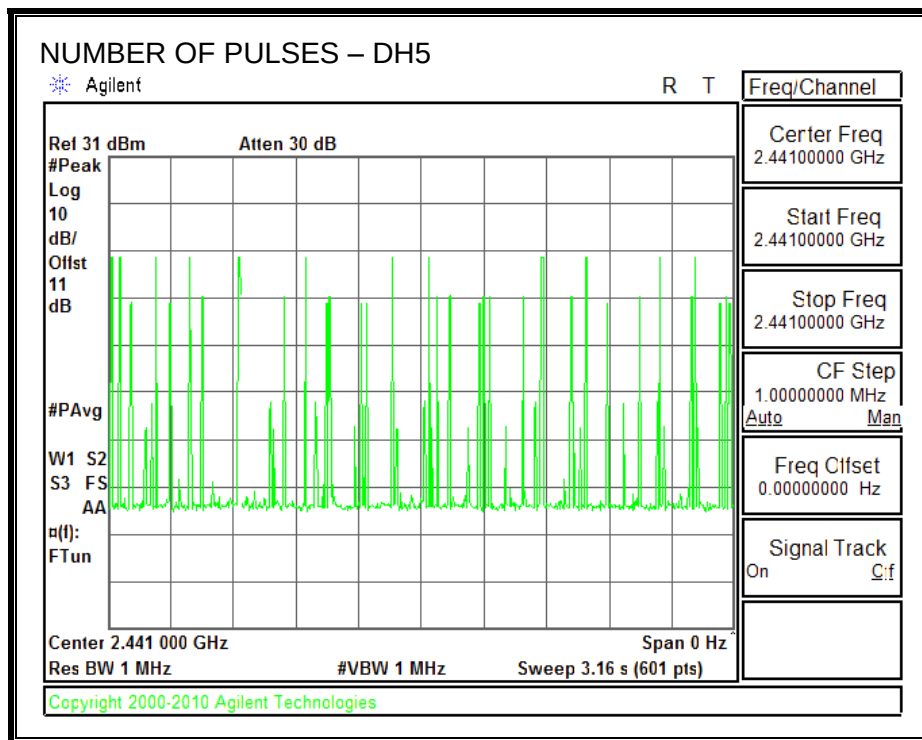
NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD – DH3



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 7 Clause A8.4

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

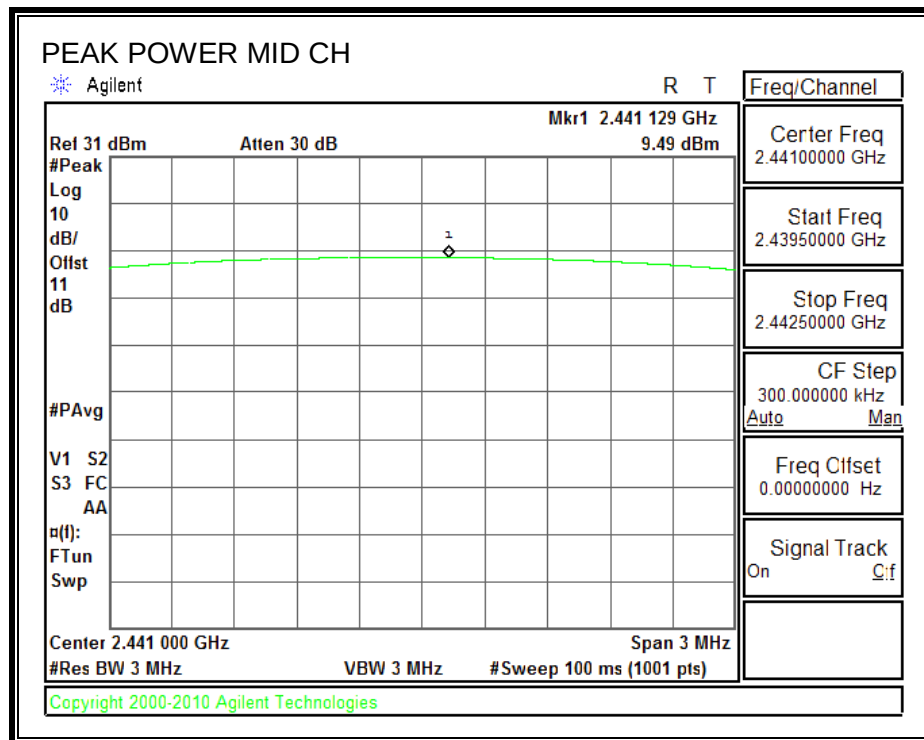
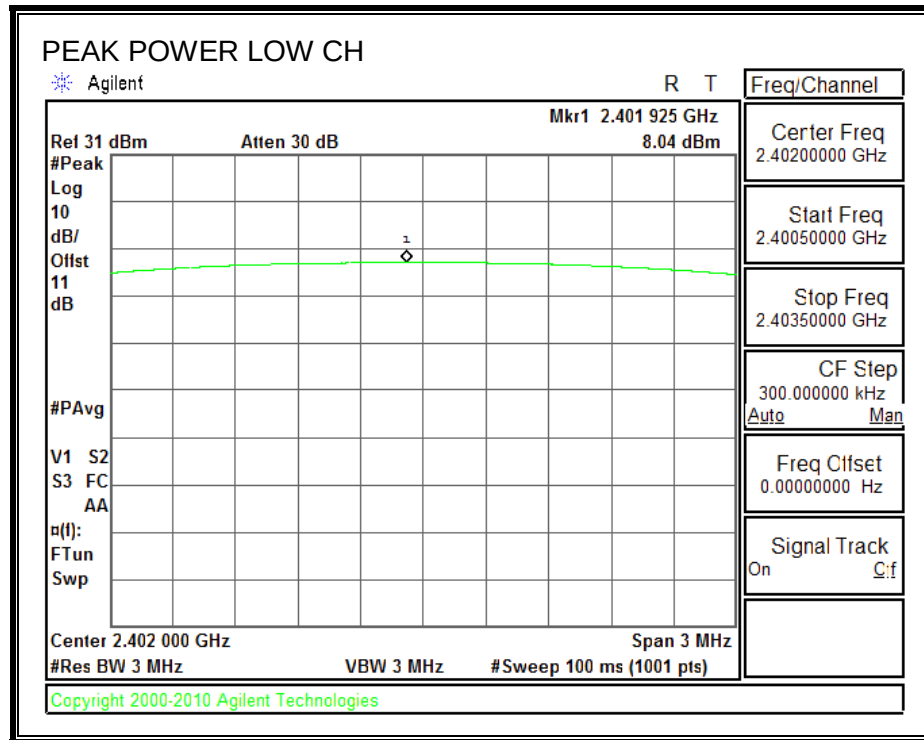
8.5.1. BASIC DATA RATE GFSK MODULATION

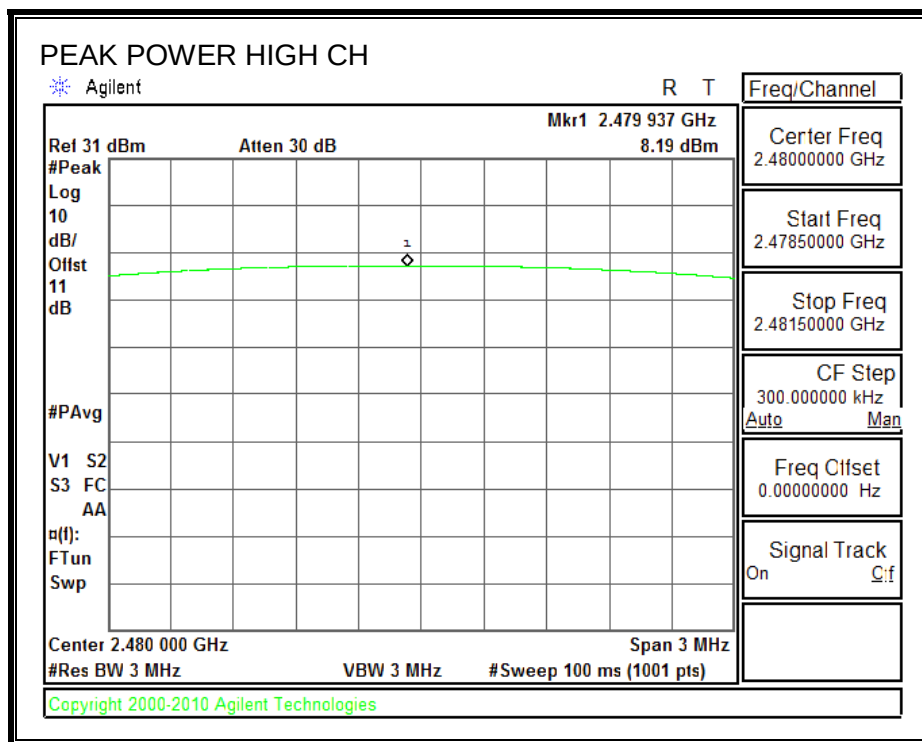
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	8.04	21	-12.96
Middle	2441	9.49	21	-11.51
High	2480	8.19	21	-12.81
Worst		9.49		-11.51

8.5.2. ENHANCED DATA RATE 8PSK MODULATION

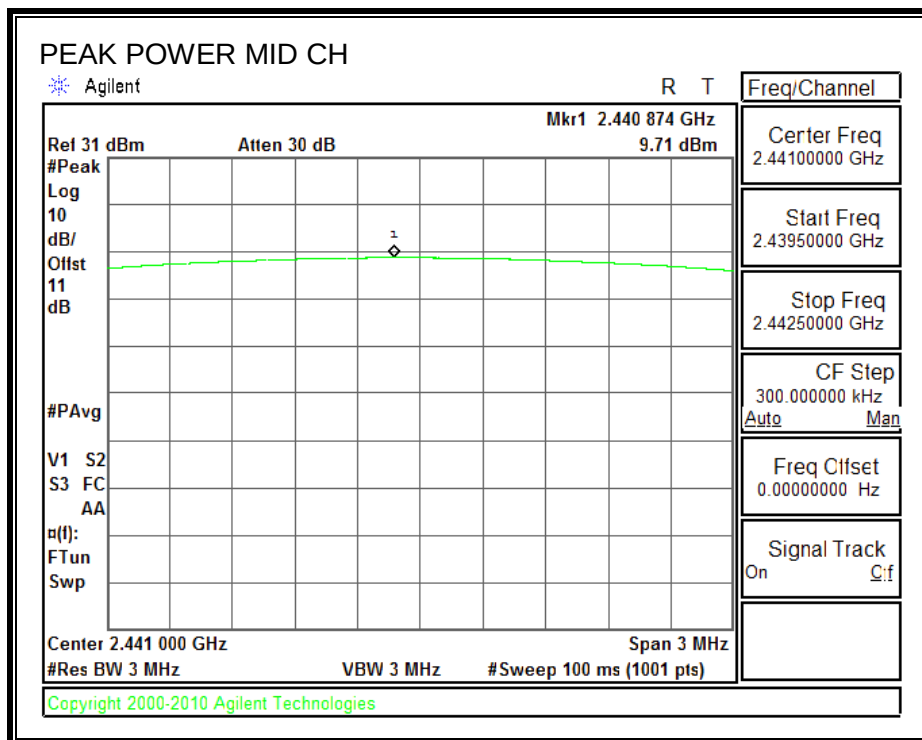
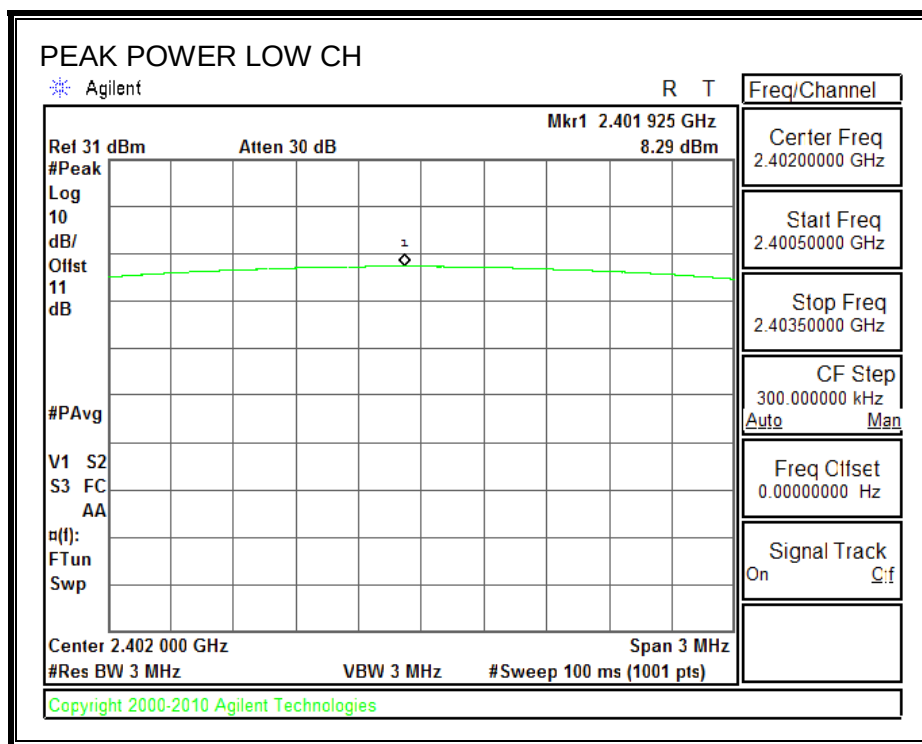
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	8.29	21	-12.71
Middle	2441	9.71	21	-11.29
High	2480	8.29	21	-12.71
Worst		9.71		-11.29

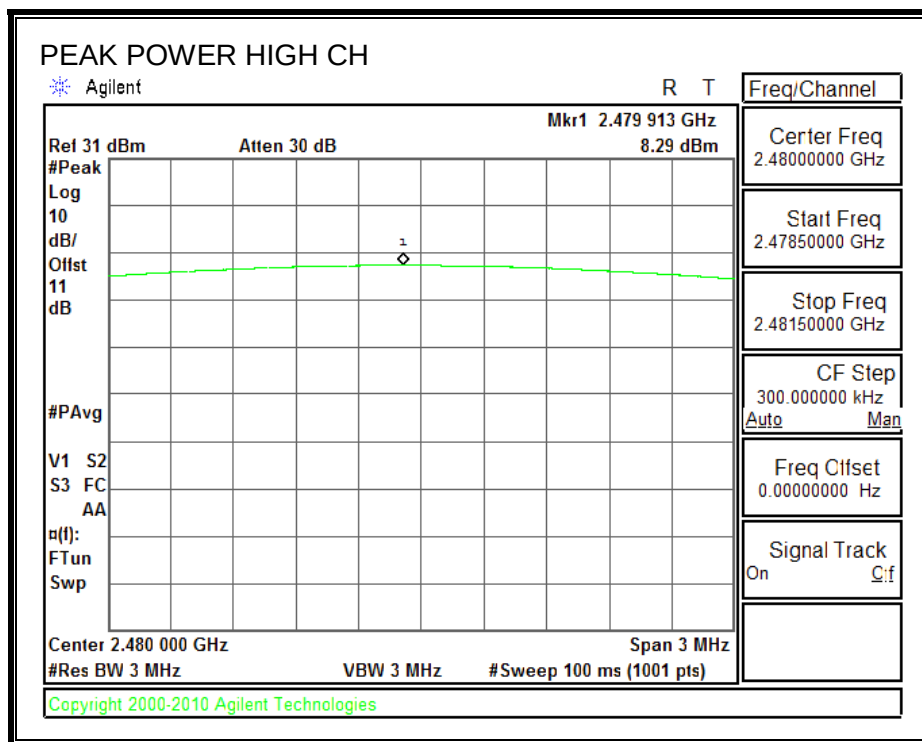
GFSK OUTPUT POWER





8PSK OUTPUT POWER





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	7.60
Middle	2441	8.90
High	2480	7.50
Worst		8.90

8.6.2. DATA RATE PI/4-DQPSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	5.20
Middle	2441	6.40
High	2480	4.50
Worst		6.40

8.6.3. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency (MHz)	Average Power (dBm)
Low	2402	5.20
Middle	2441	6.50
High	2480	4.50
Worst		6.50

8.7. 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.

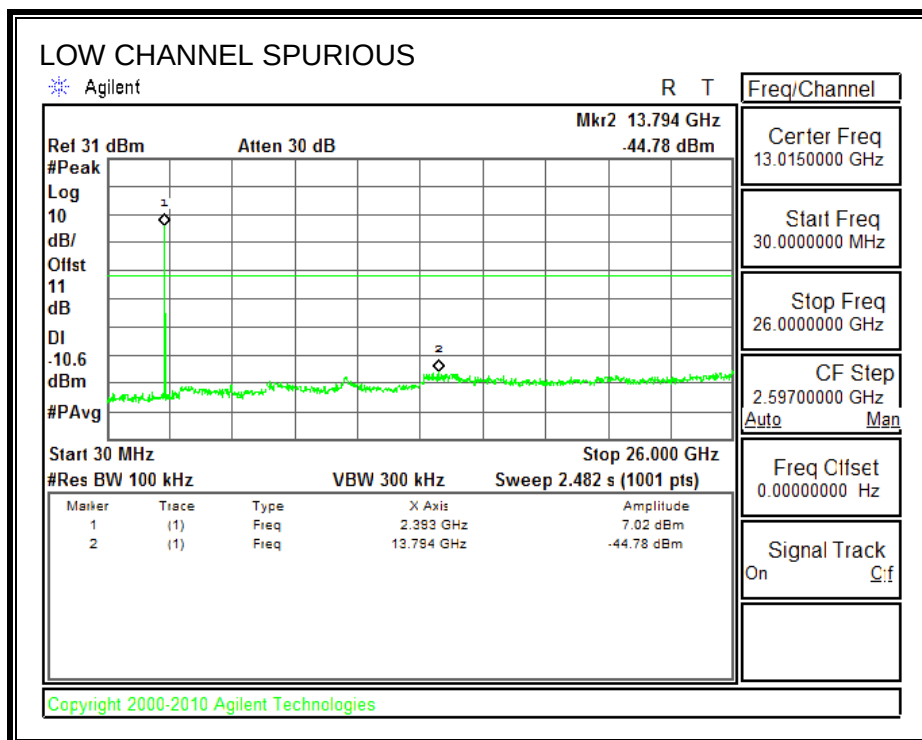
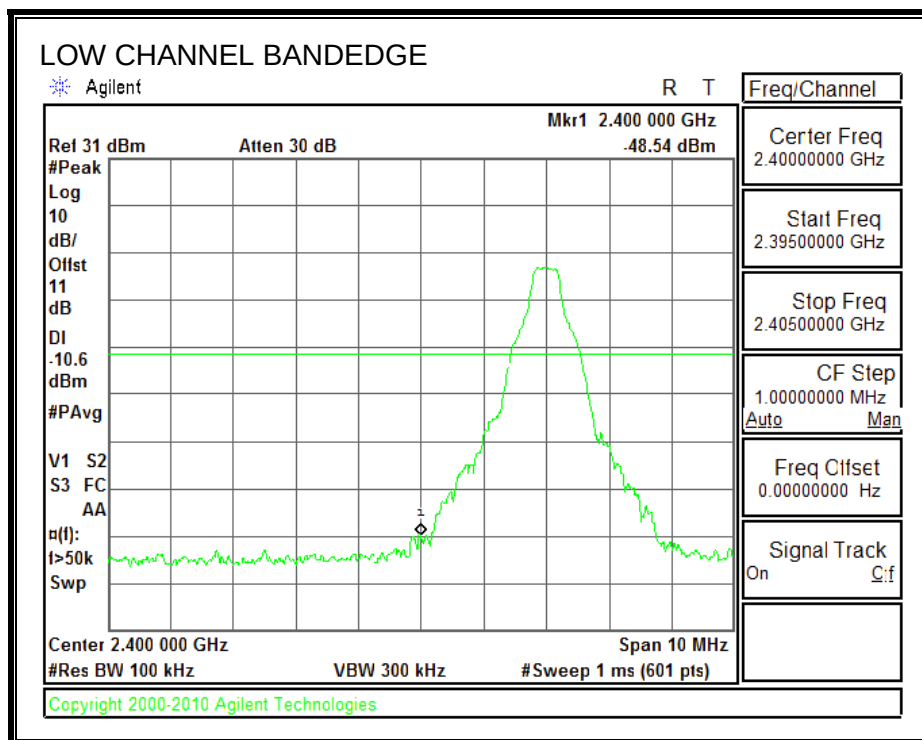
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

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

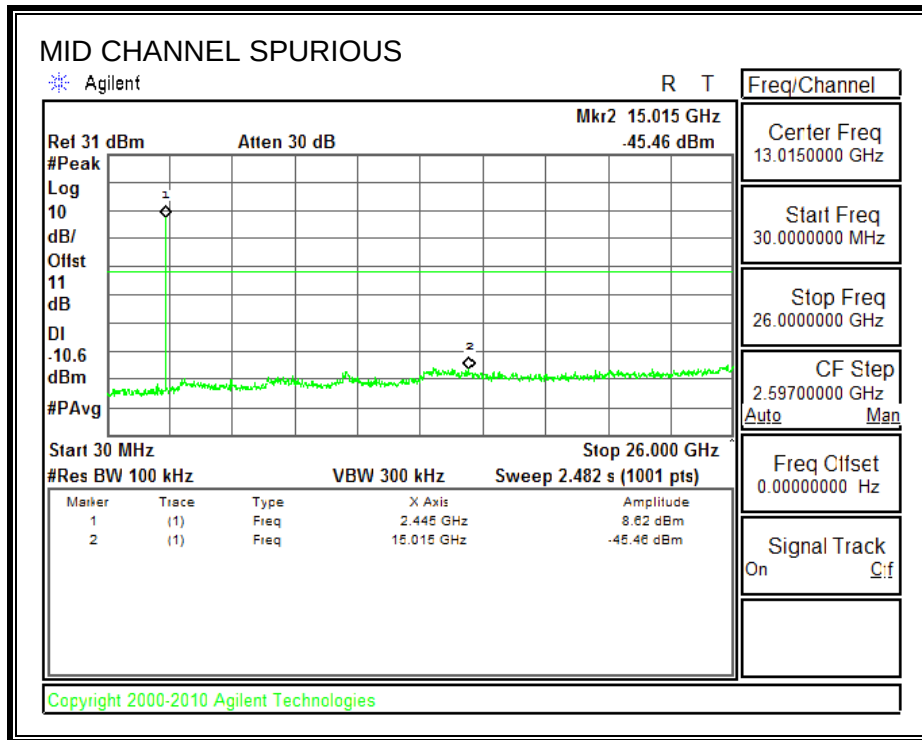
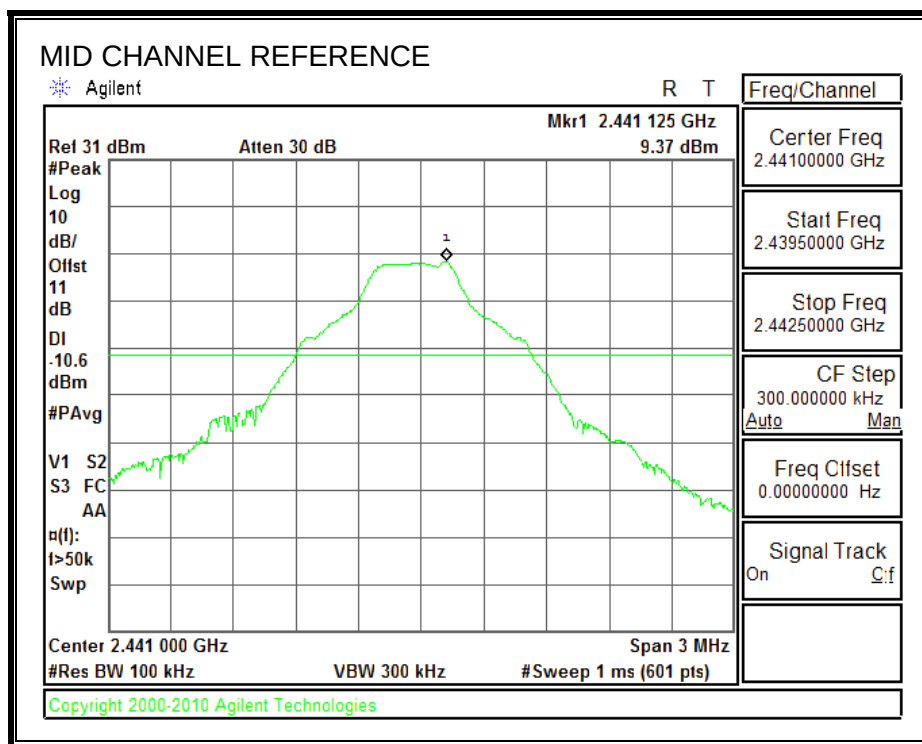
RESULTS

8.7.1. BASIC DATA RATE GFSK MODULATION

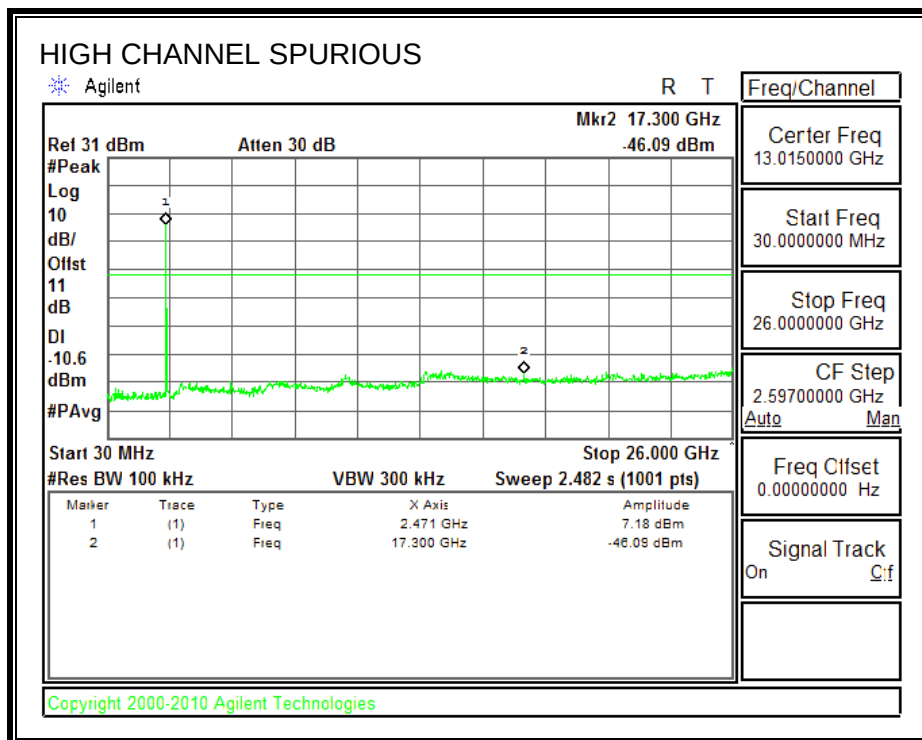
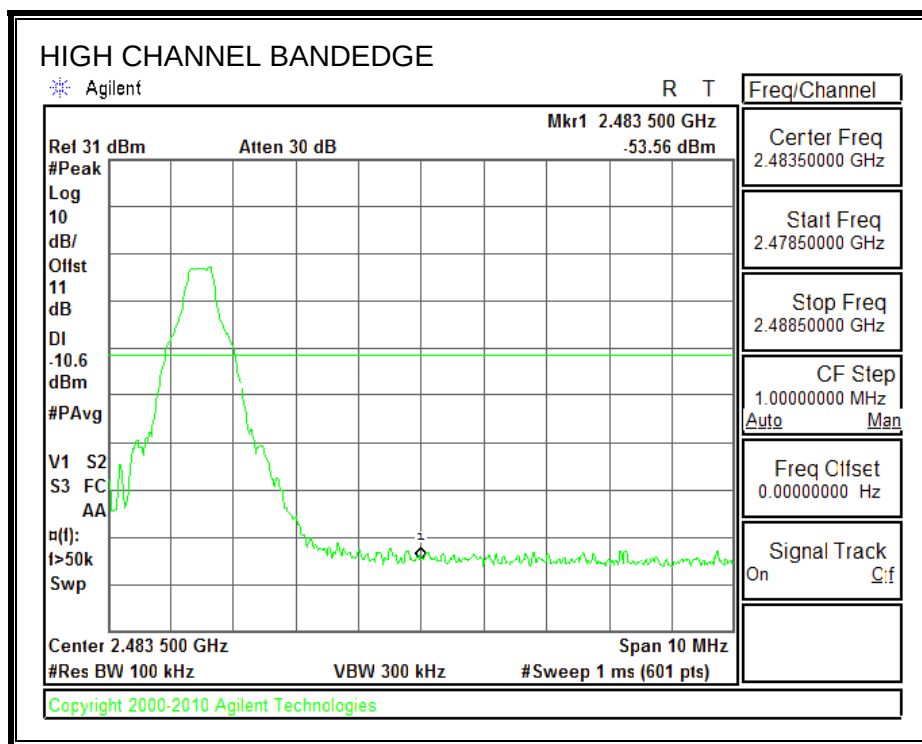
SPURIOUS EMISSIONS, LOW CHANNEL



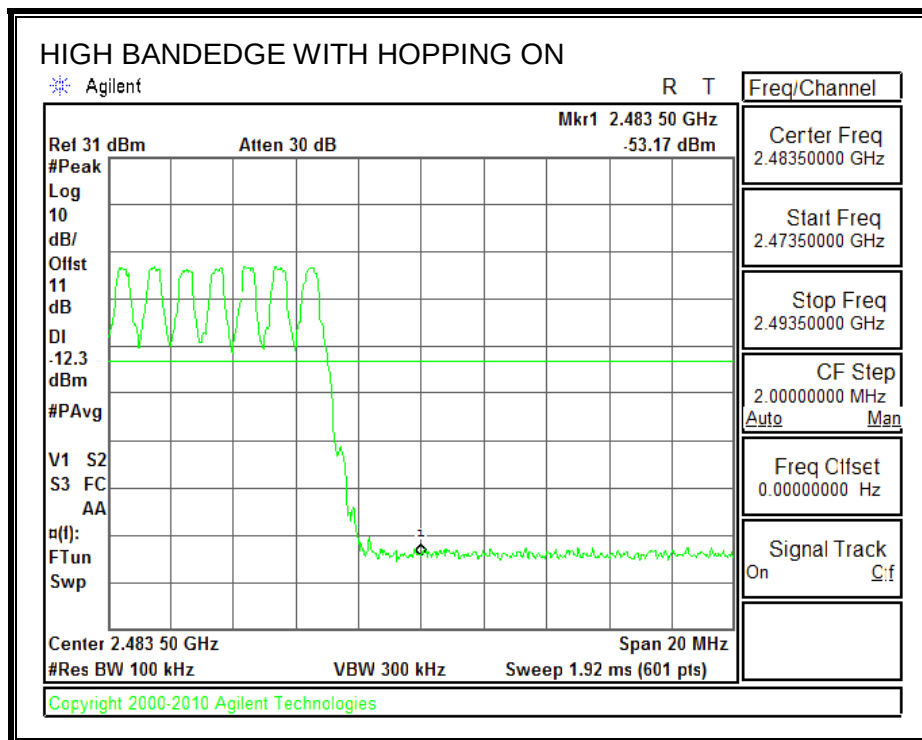
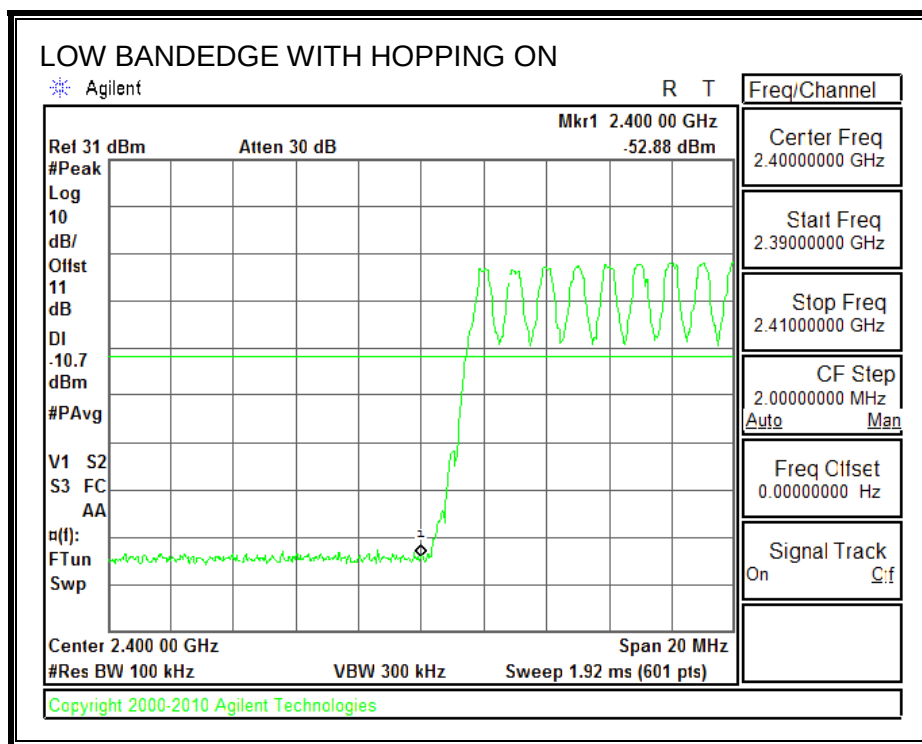
SPURIOUS EMISSIONS, MID CHANNEL



SPURIOUS EMISSIONS, HIGH CHANNEL

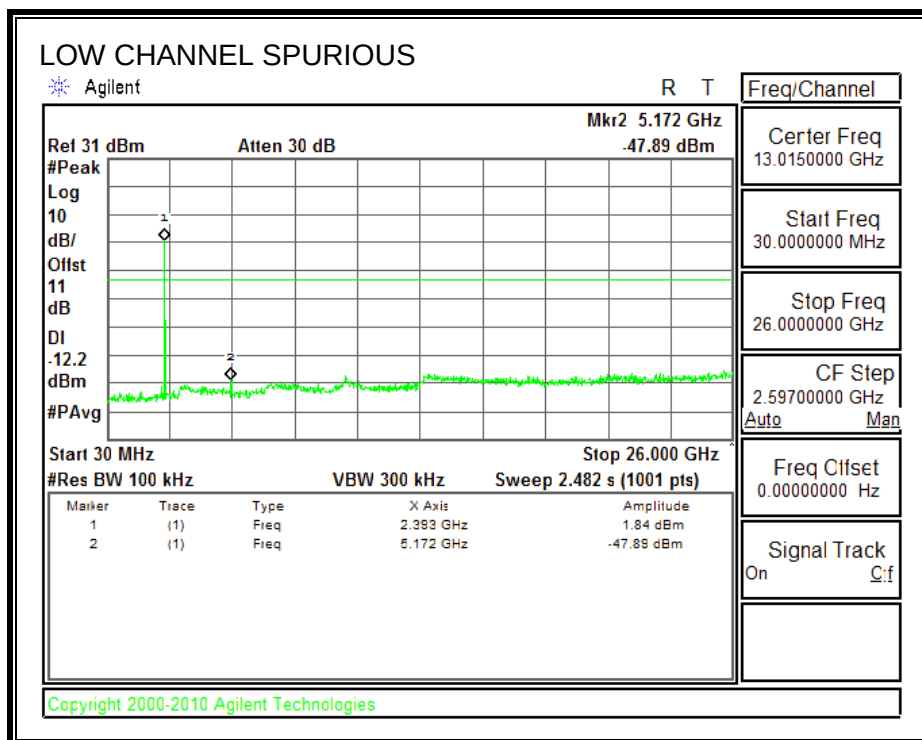
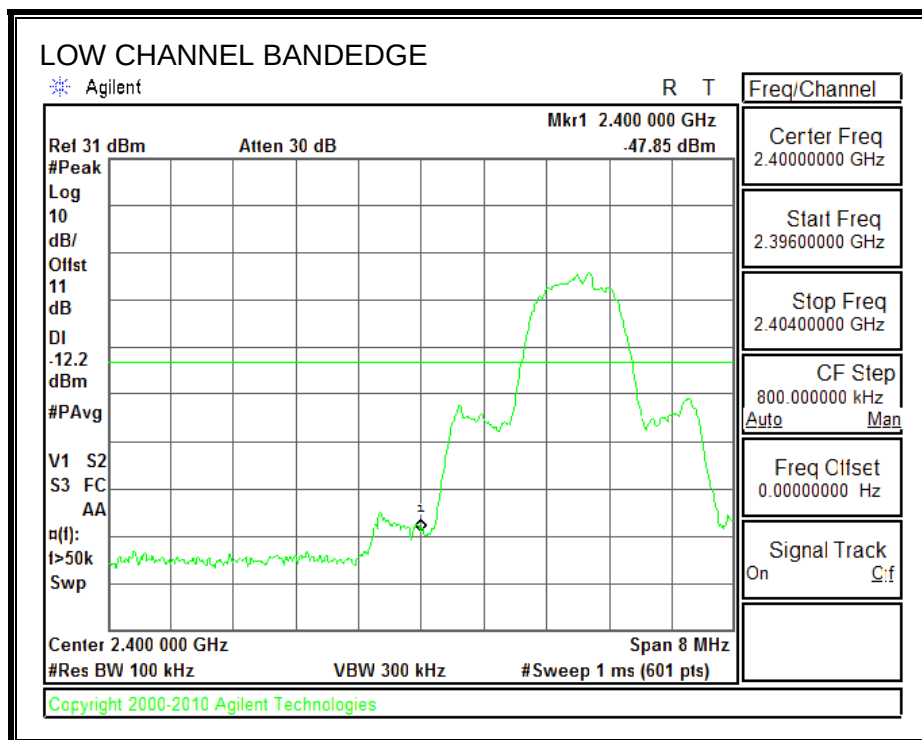


SPURIOUS BANDEDGE EMISSIONS WITH GFSK HOPPING ON

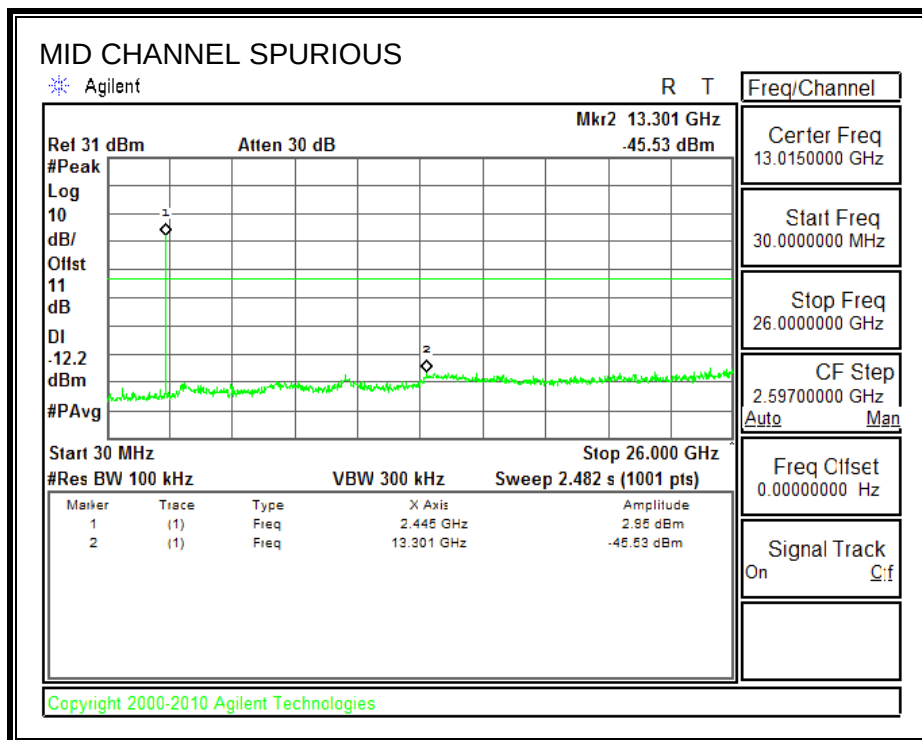
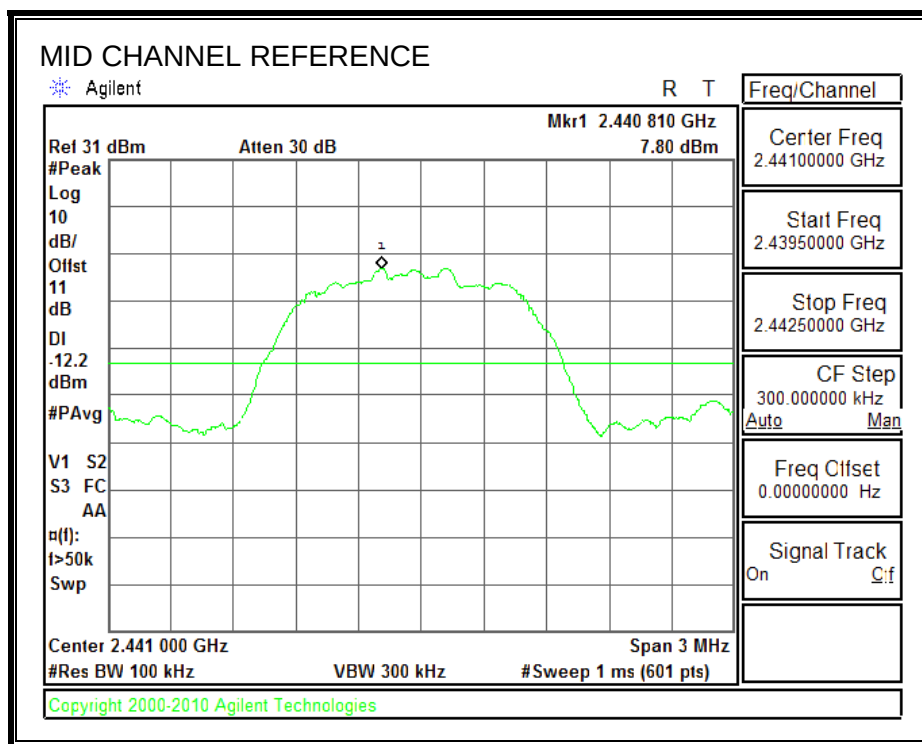


8.7.1. ENHANCED DATA RATE 8PSK MODULATION

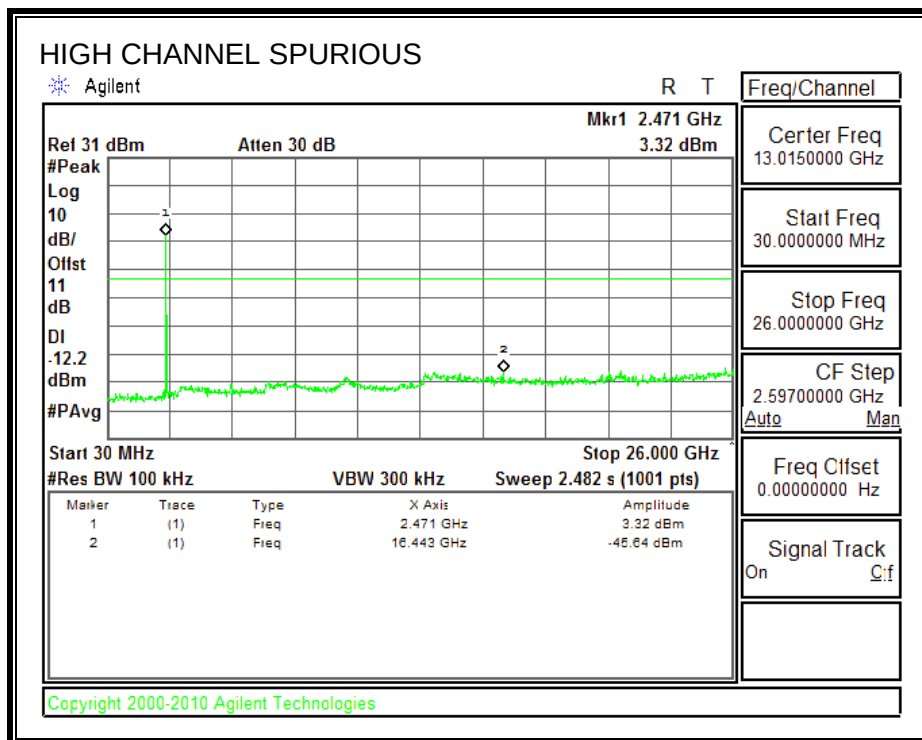
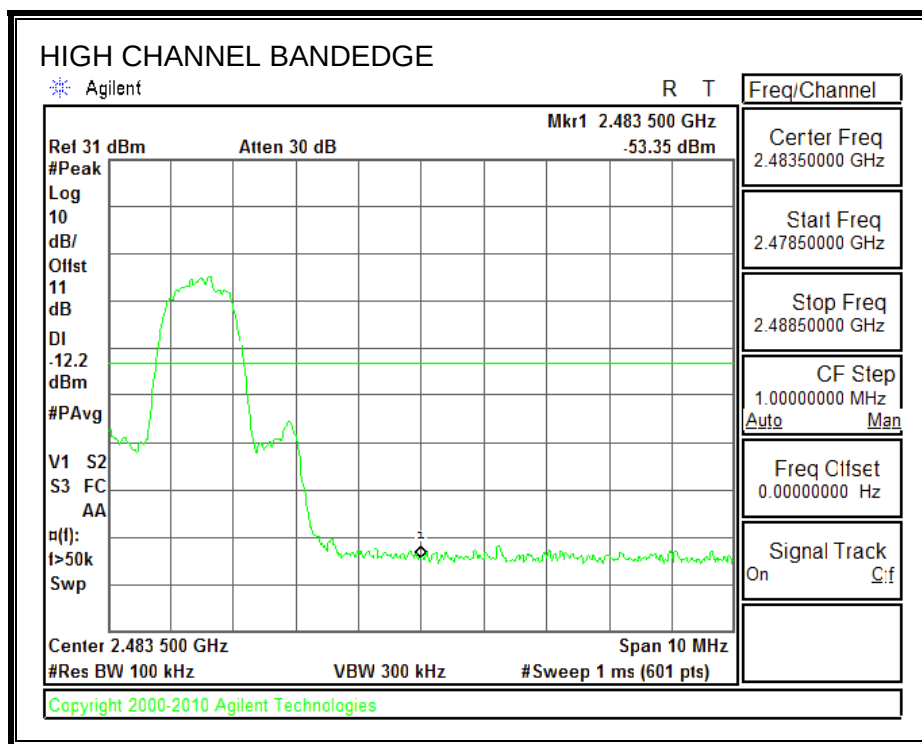
SPURIOUS EMISSIONS, LOW CHANNEL



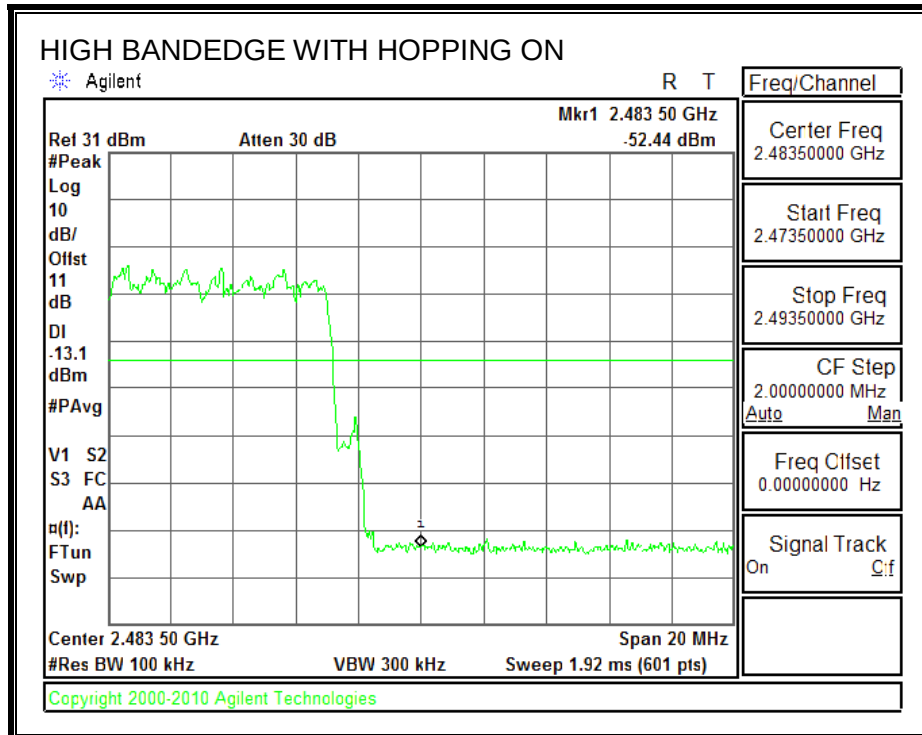
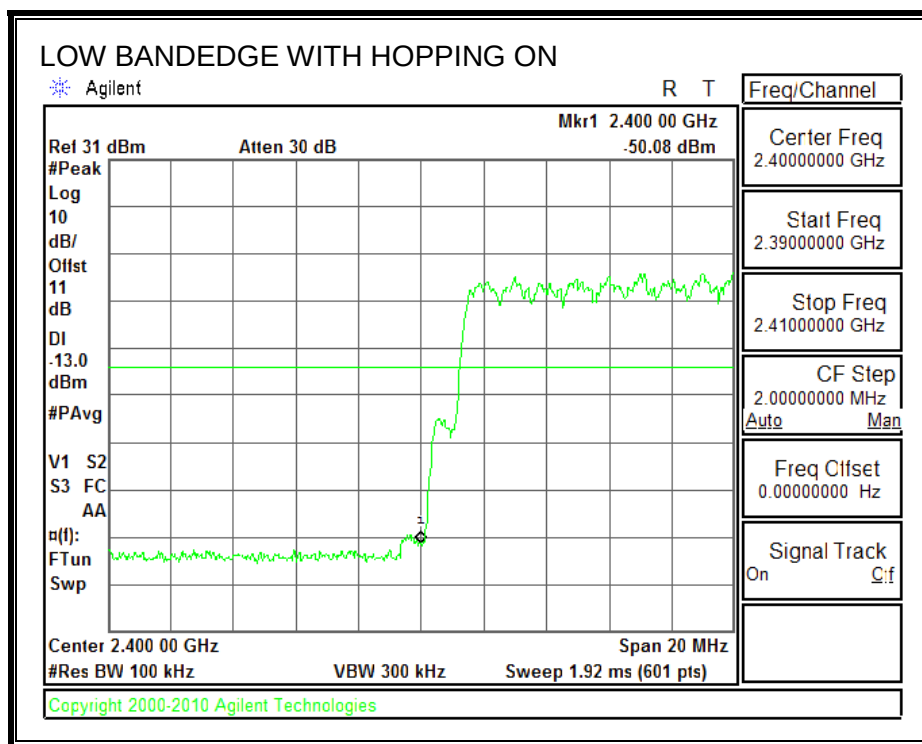
SPURIOUS EMISSIONS, MID CHANNEL



SPURIOUS EMISSIONS, HIGH CHANNEL



SPURIOUS BANDEDGE EMISSIONS WITH 8PSK HOPPING ON



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (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. $GFSK = 1/T = 1 / 0.0028S = 360Hz$.

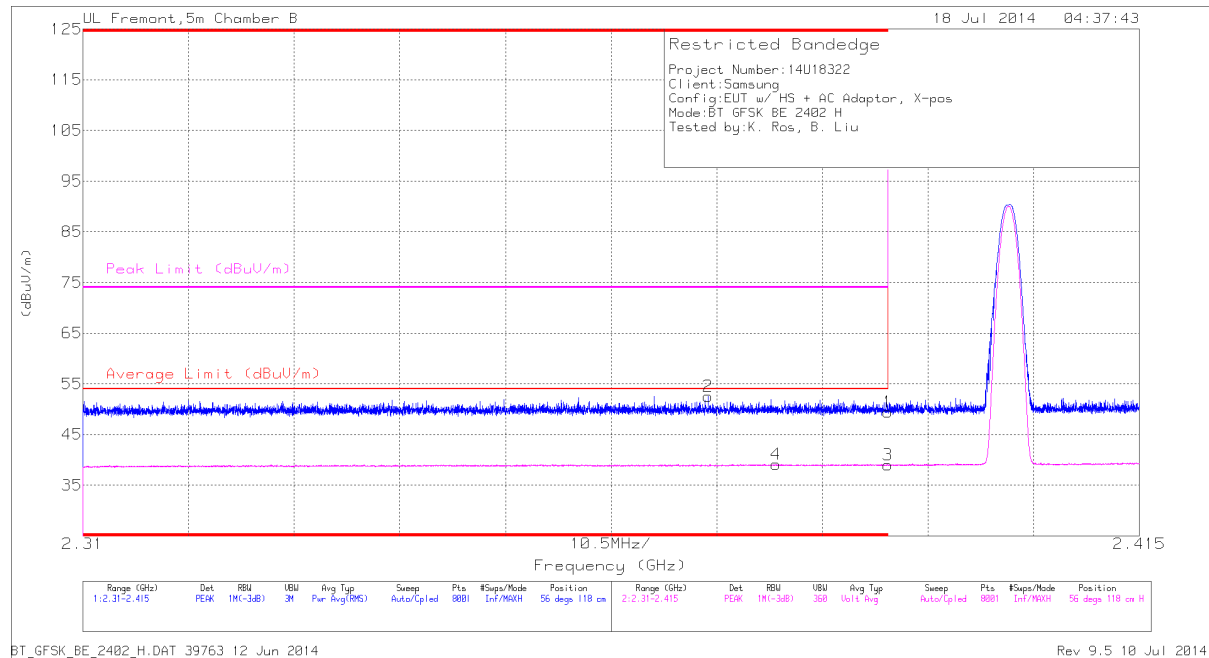
The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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)



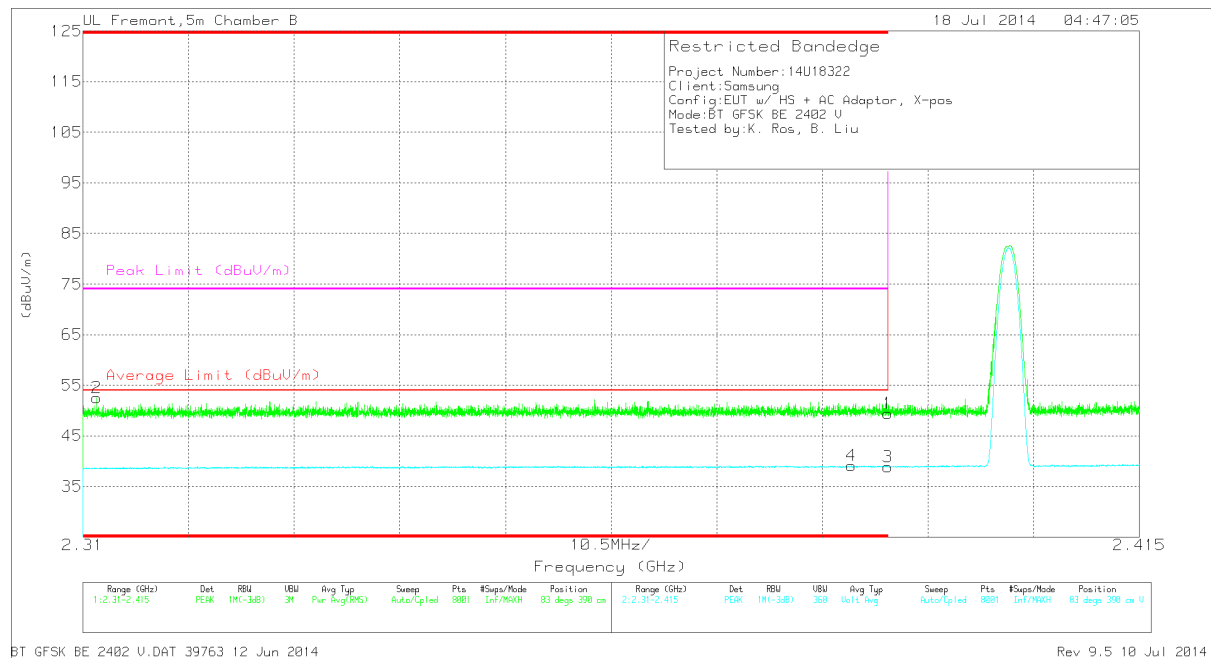
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.42	PK	32.1	-23.1	0	49.42	-	-	74	-24.58	56	118	H
2	* 2.372	43.6	PK	32	-23.1	0	52.5	-	-	74	-21.5	56	118	H
3	* 2.39	29.94	VB1T	32.1	-23.1	0	38.94	54	-15.06	-	-	56	118	H
4	* 2.379	30.14	VB1T	32.1	-23.1	0	39.14	54	-14.86	-	-	56	118	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



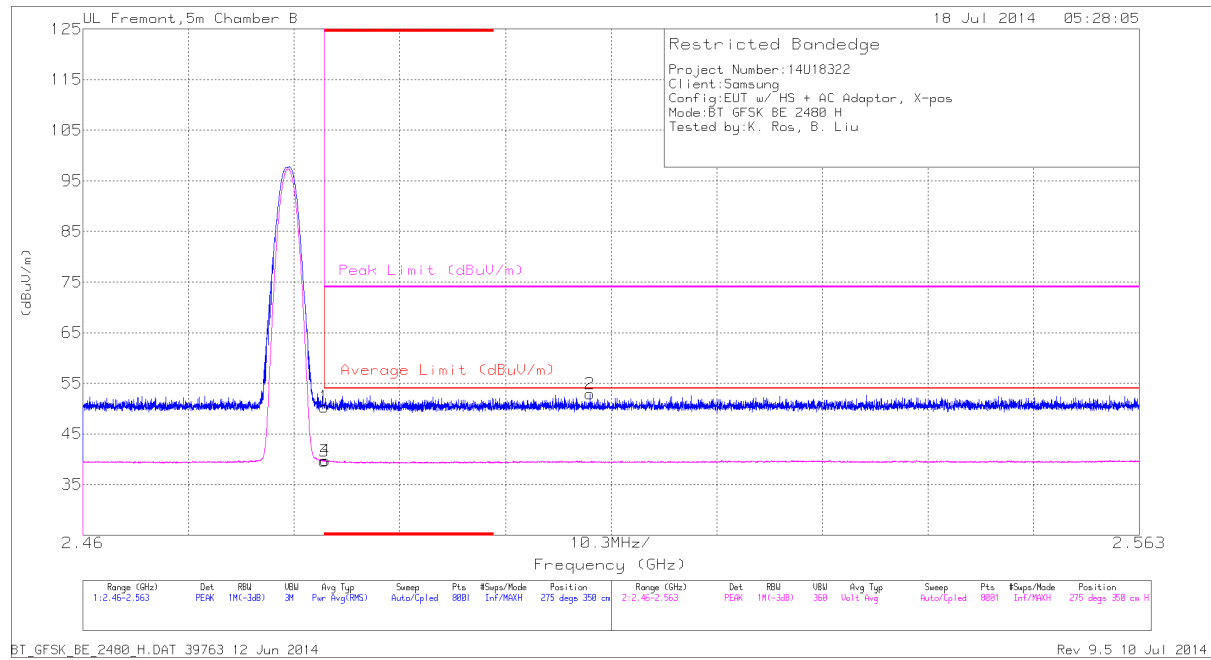
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.42	PK	32.1	-23.1	0	49.42	-	-	74	-24.58	83	390	V
2	* 2.311	43.72	PK	31.9	-23.1	0	52.52	-	-	74	-21.48	83	390	V
3	* 2.39	29.86	VB1T	32.1	-23.1	0	38.86	54	-15.14	-	-	83	390	V
4	* 2.386	30.07	VB1T	32.1	-23.1	0	39.07	54	-14.93	-	-	83	390	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



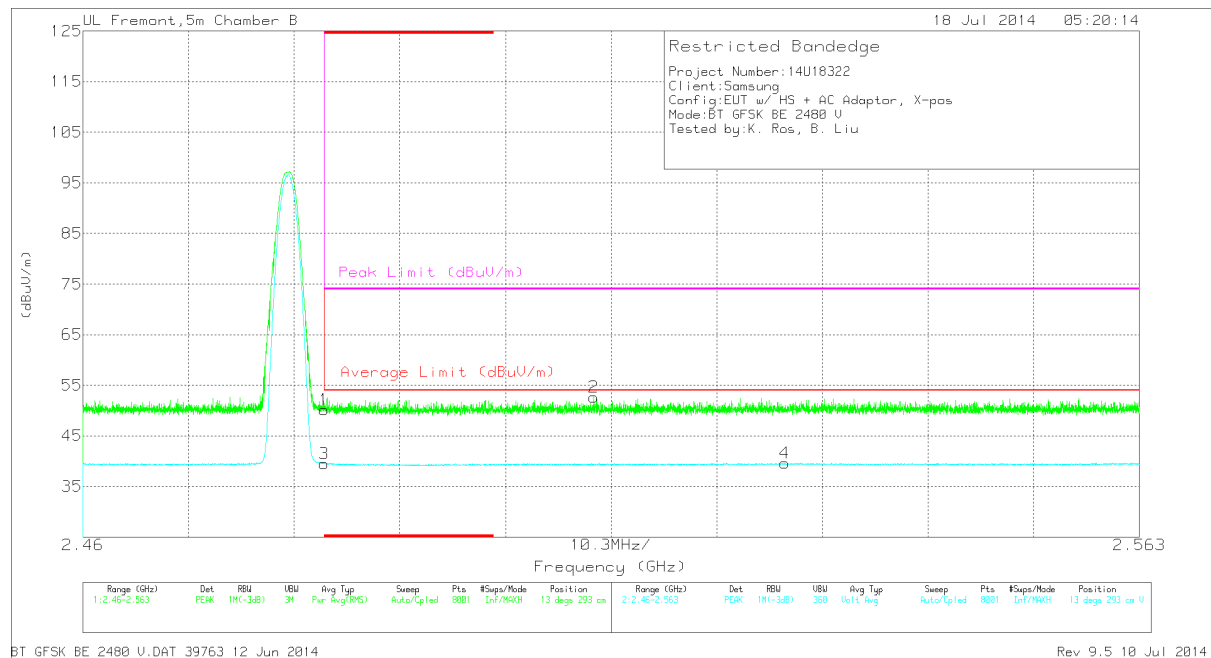
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.85	PK	32.3	-22.8	0	50.35	-	-	74	-23.65	275	350	H
3	* 2.484	30.16	VB1T	32.3	-22.8	0	39.66	54	-14.34	-	-	275	350	H
4	* 2.484	30.27	VB1T	32.3	-22.8	0	39.77	54	-14.23	-	-	275	350	H
2	2.509	43.41	PK	32.3	-22.8	0	52.91	-	-	74	-21.09	275	350	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



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
1	* 2.484	40.67	PK	32.3	-22.8	0	50.17	-	-	74	-23.83	13	293	V
3	* 2.484	29.95	VB1T	32.3	-22.8	0	39.45	54	-14.55	-	-	13	293	V
2	2.51	43.14	PK	32.3	-22.8	0	52.64	-	-	74	-21.36	13	293	V
4	2.528	29.85	VB1T	32.4	-22.6	0	39.65	54	-14.35	-	-	13	293	V

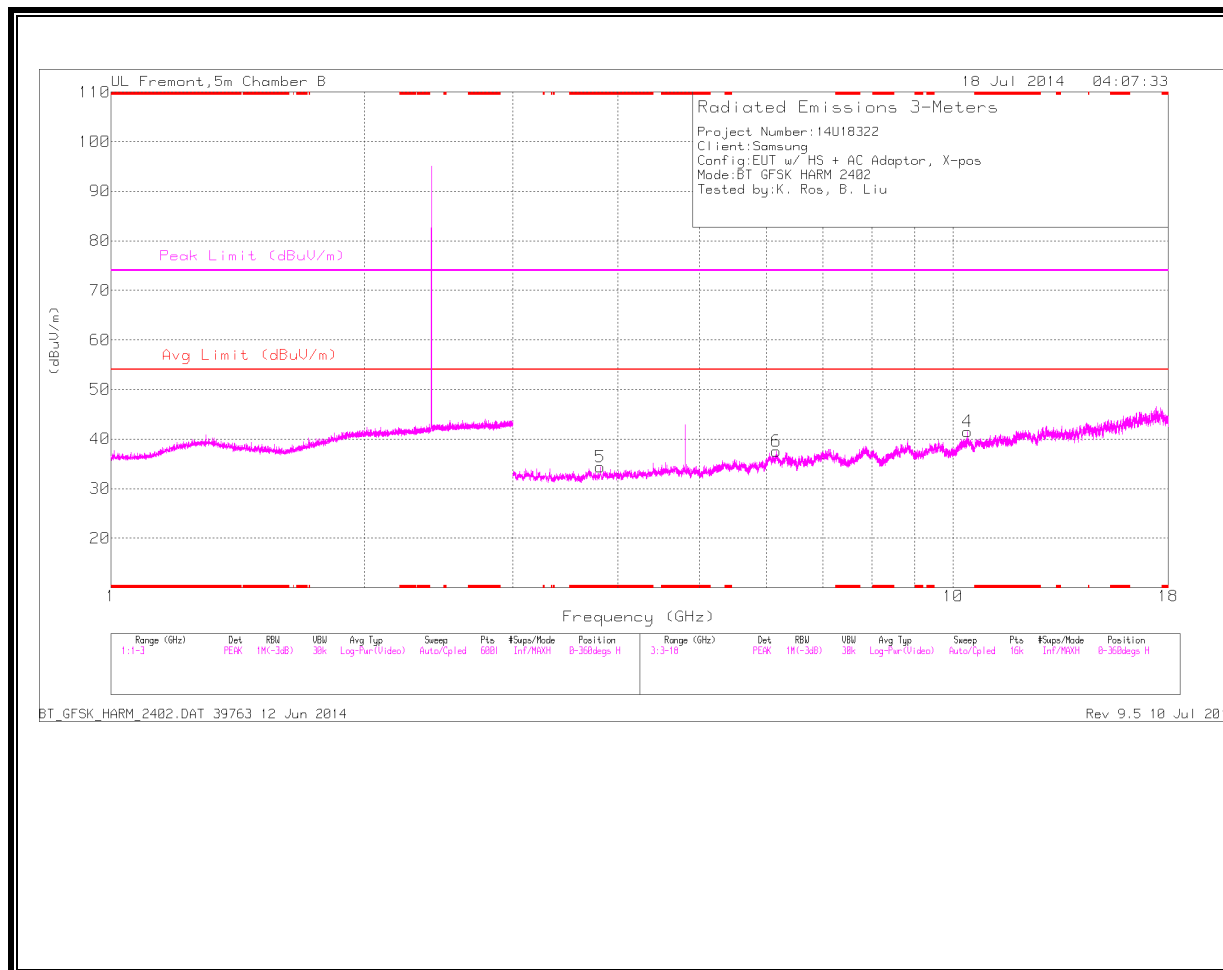
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

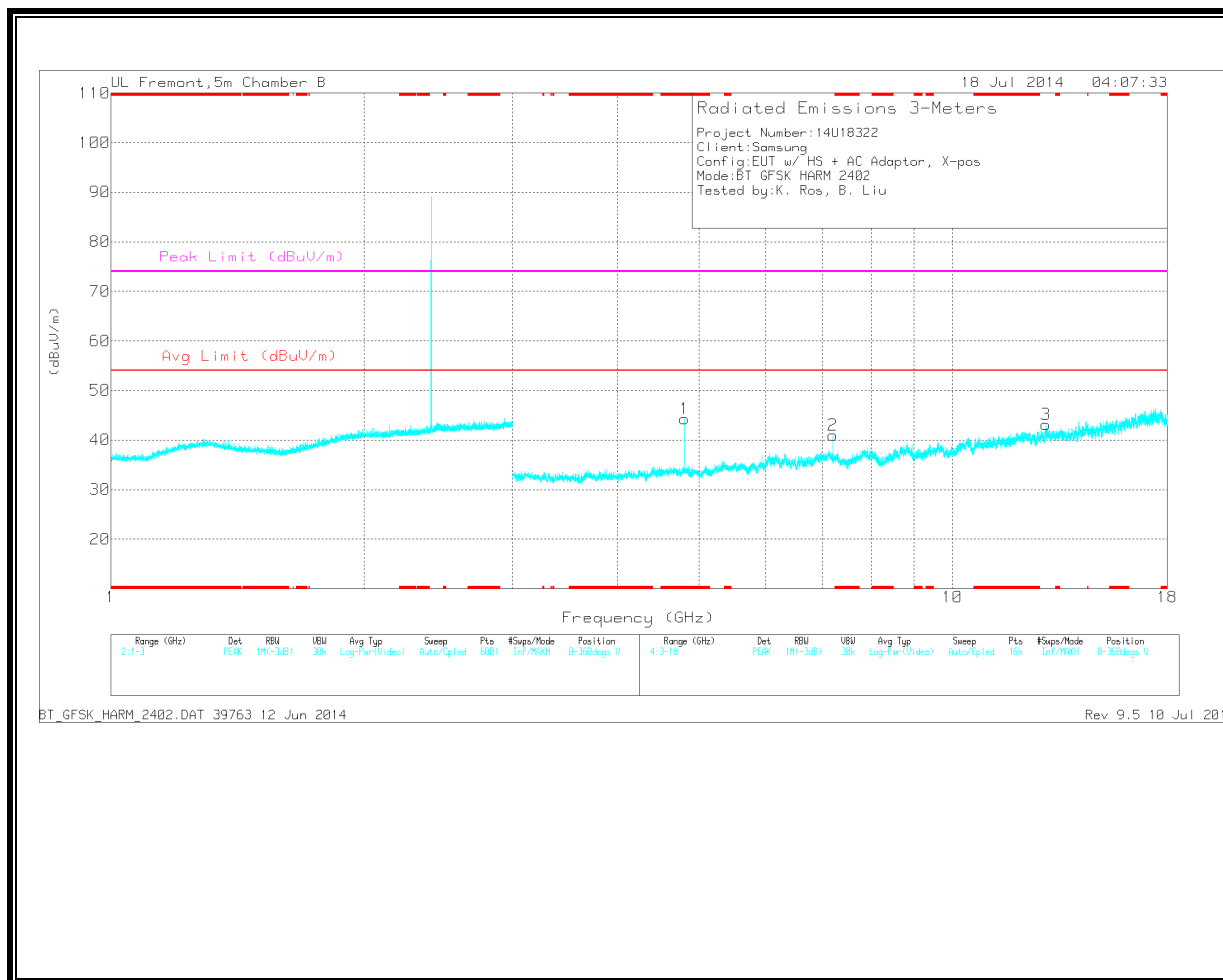
HARMONICS AND SPURIOUS EMISSIONS

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.

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/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
5	* 3.809	32.37	PK	33.2	-31.2	0	34.37	-	-	74	-39.63	0-360	100	H
1	* 4.804	40.46	PK	34.1	-30.3	0	44.26	-	-	74	-29.74	0-360	200	V
6	6.168	31.95	PK	35.3	-29.7	0	37.55	-	-	-	-	0-360	200	H
2	7.206	34.58	PK	35.6	-29.2	0	40.98	-	-	-	-	0-360	200	V
4	10.403	29.35	PK	37.4	-25.2	0	41.55	-	-	-	-	0-360	200	H
3	12.922	31.01	PK	39.1	-27	0	43.11	-	-	-	-	0-360	200	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

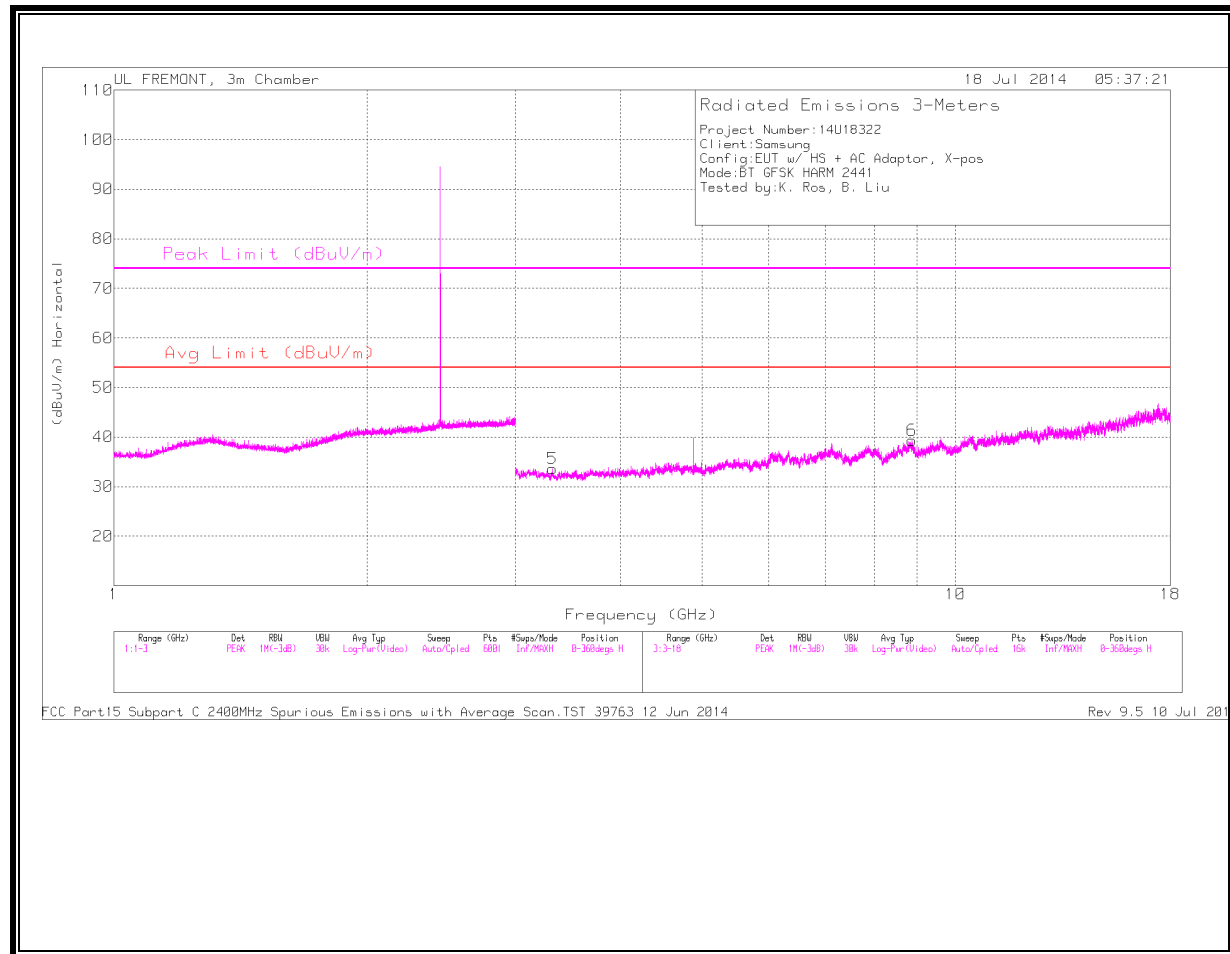
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.809	42.07	PK3	33.2	-31.2	0	44.07	-	-	74	-29.93	38	100	H
* 4.802	40.15	PK3	34.1	-30.3	0	43.95	-	-	74	-30.05	38	324	V
* 4.802	27.8	VB1T	34.1	-30.3	0	31.6	54	-22.4	-	-	38	324	V
6.168	40.53	PK3	35.3	-29.7	0	46.13	-	-	-	-	38	200	H
7.207	39.64	PK3	35.6	-29.3	0	45.94	-	-	-	-	38	200	V
10.403	36.95	PK3	37.4	-25.2	0	49.15	-	-	-	-	38	200	H
12.923	39.31	PK3	39.1	-27	0	51.41	-	-	-	-	38	200	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK3 - FHSS Method: Maximum Peak

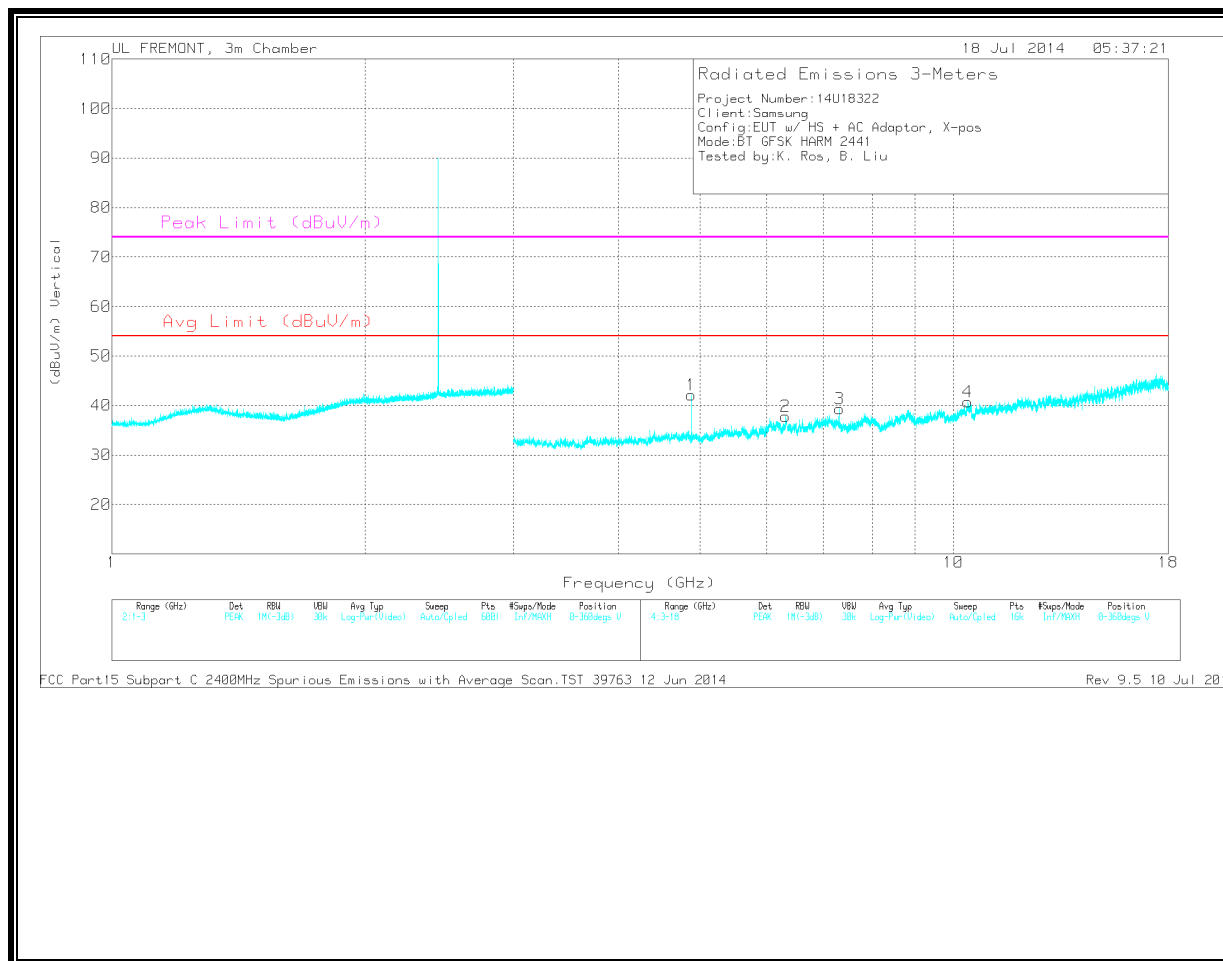
VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

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.

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.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/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
5	3.319	32.14	PK	32.9	-31.4	0	33.64	-	-	-	-	0-360	200	H
1	4.882	38.17	PK	34	-30.1	0	42.07	-	-	74	-31.93	0-360	100	V
2	6.32	31.76	PK	35.4	-29.4	0	37.76	-	-	-	-	0-360	200	V
3	7.323	32.11	PK	35.6	-28.4	0	39.31	-	-	74	-34.69	0-360	200	V
6	8.88	29.77	PK	36	-26.4	0	39.37	-	-	-	-	0-360	100	H
4	10.403	28.58	PK	37.4	-25.2	0	40.78	-	-	-	-	0-360	100	V

PK - Peak detector

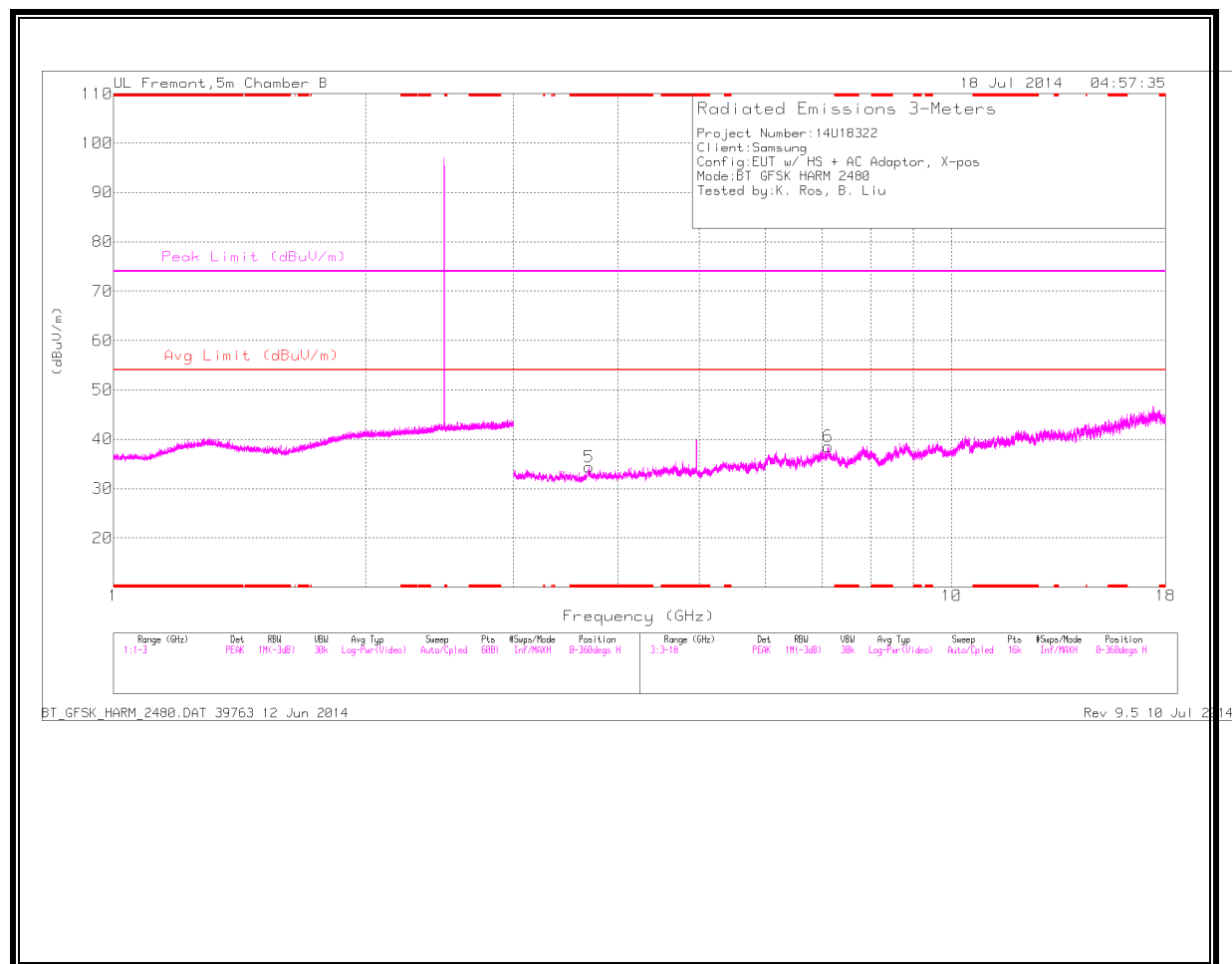
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/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
3.318	41.87	PK3	32.9	-31.4	0	43.37	-	-	-	-	147	200	H
4.882	44.79	PK3	34	-30.1	0	48.69	-	-	74	-25.31	147	395	V
4.882	38.91	VB1T	34	-30.1	0	42.81	54	-11.19	-	-	147	395	V
6.32	40.32	PK3	35.4	-29.4	0	46.32	-	-	-	-	147	200	V
7.323	39.84	PK3	35.6	-28.4	0	47.04	-	-	74	-26.96	147	200	V
8.88	37.67	PK3	36	-26.4	0	47.27	-	-	-	-	147	100	H
10.402	37.06	PK3	37.4	-25.2	0	49.26	-	-	-	-	147	100	V

PK3 - FHSS Method: Maximum Peak

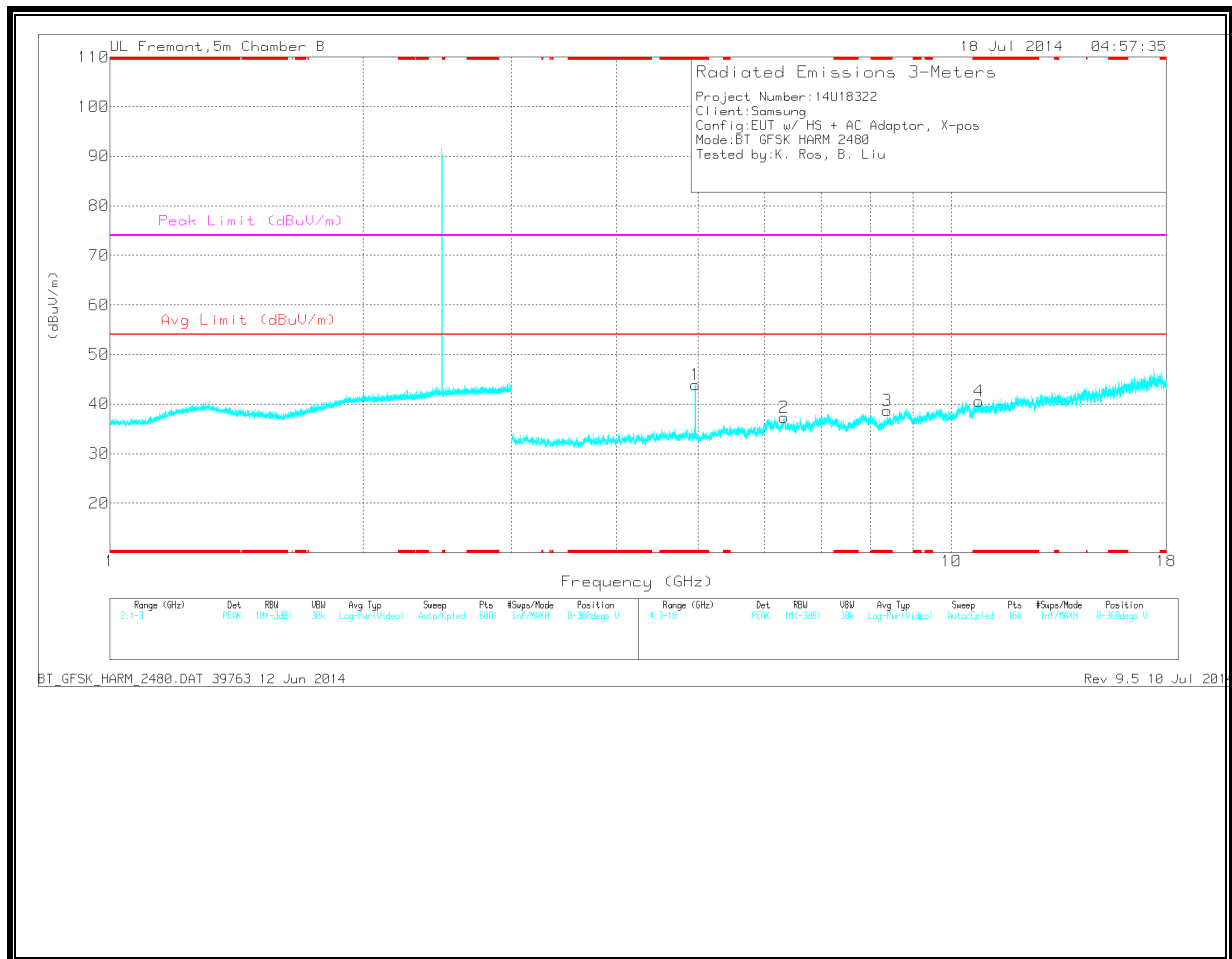
VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

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.

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.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/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
5	* 3.694	31.97	PK	33.2	-30.8	0	34.37	-	-	74	-39.63	0-360	100	H
1	* 4.96	40.85	PK	34	-31	0	43.85	-	-	74	-30.15	0-360	200	V
3	* 8.385	29.68	PK	35.8	-26.8	0	38.68	-	-	74	-35.32	0-360	200	V
4	* 10.783	28.11	PK	37.9	-25.4	0	40.61	-	-	74	-33.39	0-360	100	V
2	6.326	30.95	PK	35.4	-29.1	0	37.25	-	-	-	-	0-360	200	V
6	7.117	30.91	PK	35.6	-28	0	38.51	-	-	-	-	0-360	200	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/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
* 3.695	40.62	PK3	33.2	-30.8	0	43.02	-	-	74	-30.98	122	100	H
* 4.96	47.4	PK3	34	-31	0	50.4	-	-	74	-23.6	122	384	V
* 4.96	42.09	VB1T	34	-31	0	45.09	54	-8.91	-	-	122	384	V
* 8.386	38.24	PK3	35.8	-26.9	0	47.14	-	-	74	-26.86	122	200	V
* 10.783	37.6	PK3	37.9	-25.4	0	50.1	-	-	74	-23.9	122	100	V
6.325	40.88	PK3	35.4	-29.2	0	47.08	-	-	-	-	122	200	V
7.119	39.36	PK3	35.6	-28	0	46.96	-	-	-	-	122	200	H

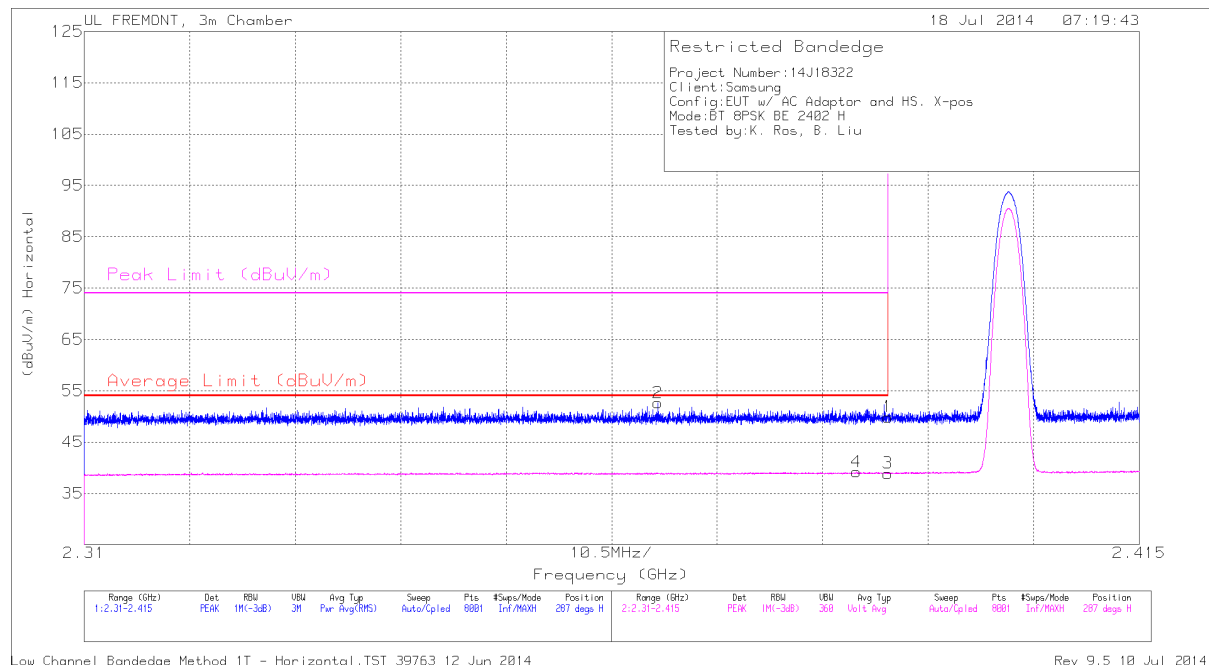
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

9.2.2. ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

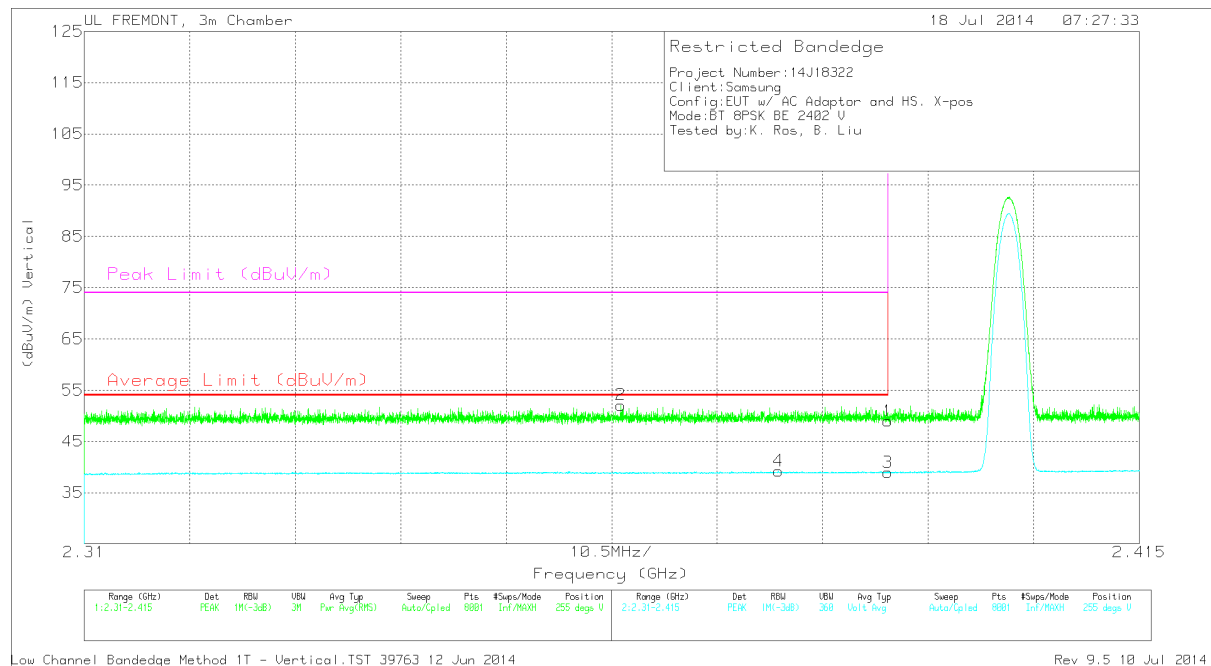


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.367	43.75	PK	32	-23.1	0	52.65	-	-	74	-21.35	287	196	H
4	2.387	30.2	VB1T	32.1	-23.1	0	39.2	54	-14.8	-	-	287	196	H
1	2.39	40.9	PK	32.1	-23.1	0	49.9	-	-	74	-24.1	287	196	H
3	2.39	29.9	VB1T	32.1	-23.1	0	38.9	54	-15.1	-	-	287	196	H

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

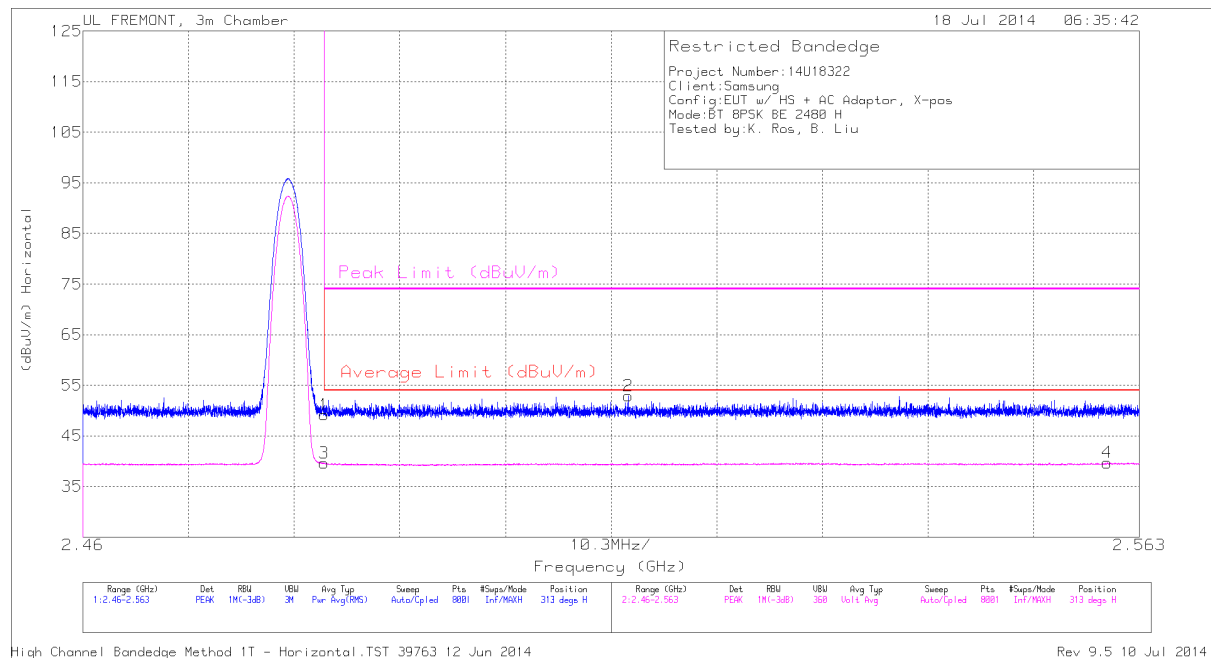


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.363	43.19	PK	32	-23.1	0	52.09	-	-	74	-21.91	255	360	V
4	2.379	30.23	VB1T	32.1	-23.1	0	39.23	54	-14.77	-	-	255	360	V
1	2.39	39.97	PK	32.1	-23.1	0	48.97	-	-	74	-25.03	255	360	V
3	2.39	29.94	VB1T	32.1	-23.1	0	38.94	54	-15.06	-	-	255	360	V

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

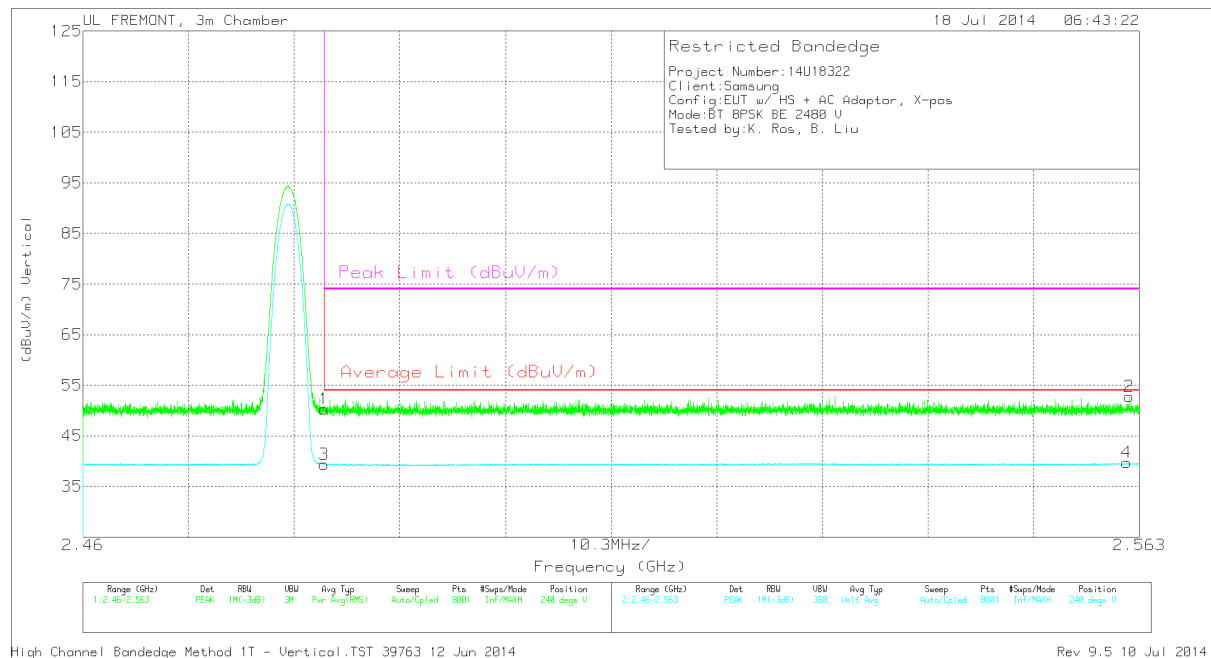


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	39.68	PK	32.3	-22.8	0	49.18	-	-	74	-24.82	313	187	H
3	2.484	30.07	VB1T	32.3	-22.8	0	39.57	54	-14.43	-	-	313	187	H
2	2.513	43.42	PK	32.3	-22.8	0	52.92	-	-	74	-21.08	313	187	H
4	2.56	29.98	VB1T	32.4	-22.7	0	39.68	54	-14.32	-	-	313	187	H

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



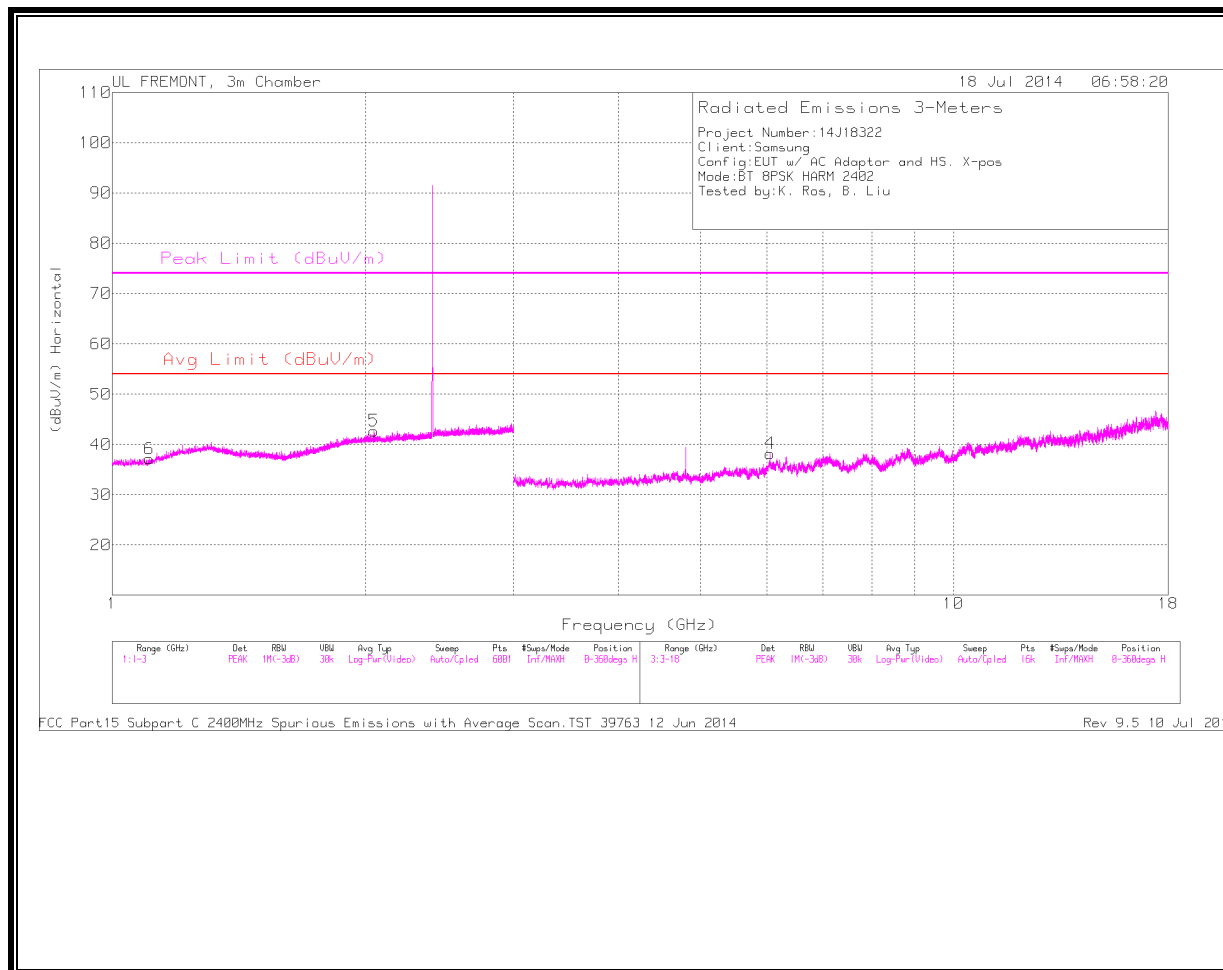
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	40.75	PK	32.3	-22.8	0	50.25	-	-	74	-23.75	240	217	V
3	2.484	29.87	VB1T	32.3	-22.8	0	39.37	54	-14.63	-	-	240	217	V
2	2.562	43.1	PK	32.4	-22.7	0	52.8	-	-	74	-21.2	240	217	V
4	2.562	30.07	VB1T	32.4	-22.7	0	39.77	54	-14.23	-	-	240	217	V

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

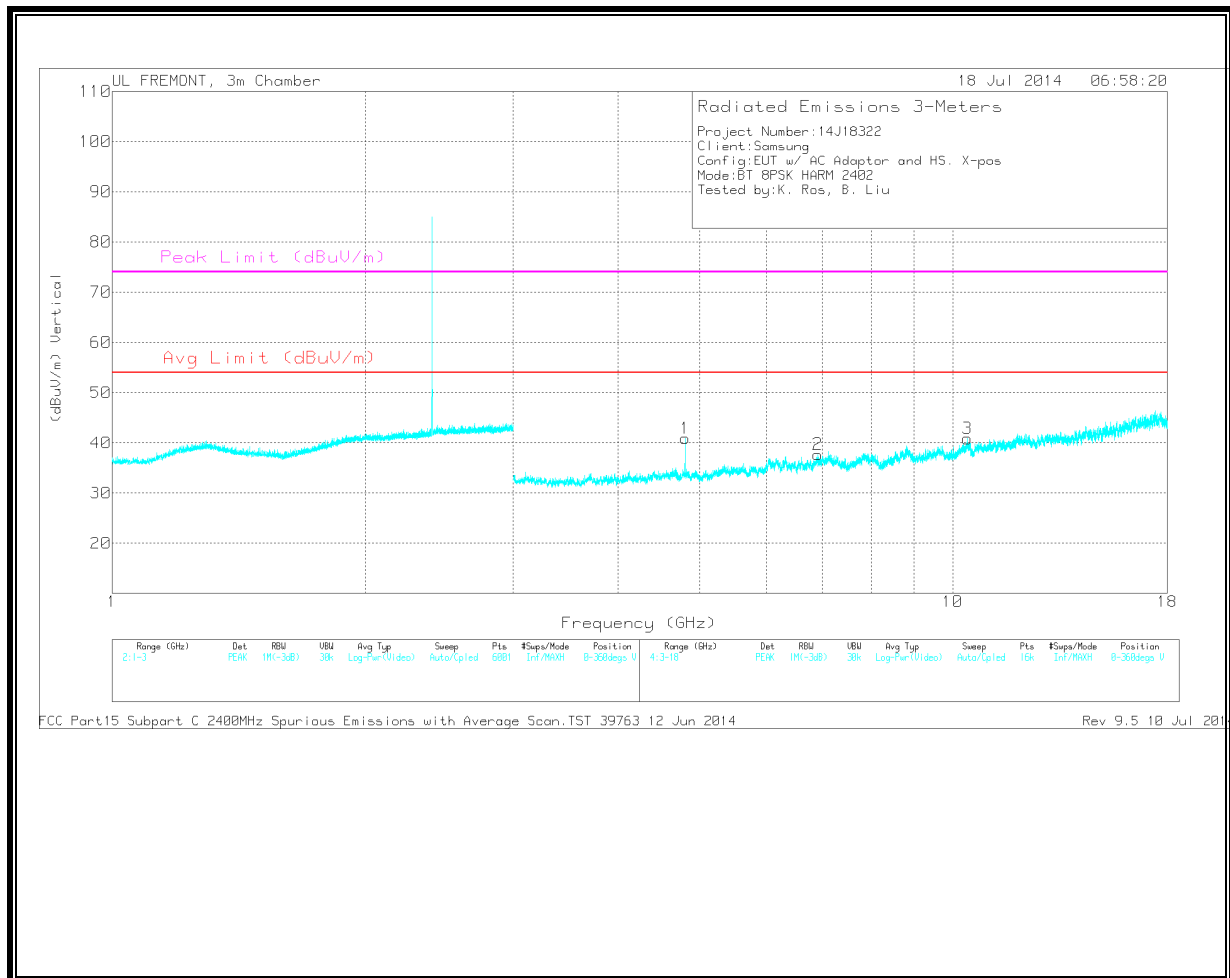
HARMONICS AND SPURIOUS EMISSIONS

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.

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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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
6	1.108	33.66	PK	27.4	-23.9	0	37.16	-	-	74	-36.84	0-360	100	H
5	2.047	34.3	PK	31.6	-23.2	0	42.7	-	-	-	-	0-360	200	H
1	4.804	37.11	PK	34.1	-30.3	0	40.91	-	-	74	-33.09	0-360	100	V
4	6.056	32	PK	35.3	-29.1	0	38.2	-	-	-	-	0-360	200	H
2	6.907	30.7	PK	35.6	-28.6	0	37.7	-	-	-	-	0-360	200	V
3	10.407	28.45	PK	37.4	-25	0	40.85	-	-	-	-	0-360	200	V

PK - Peak detector

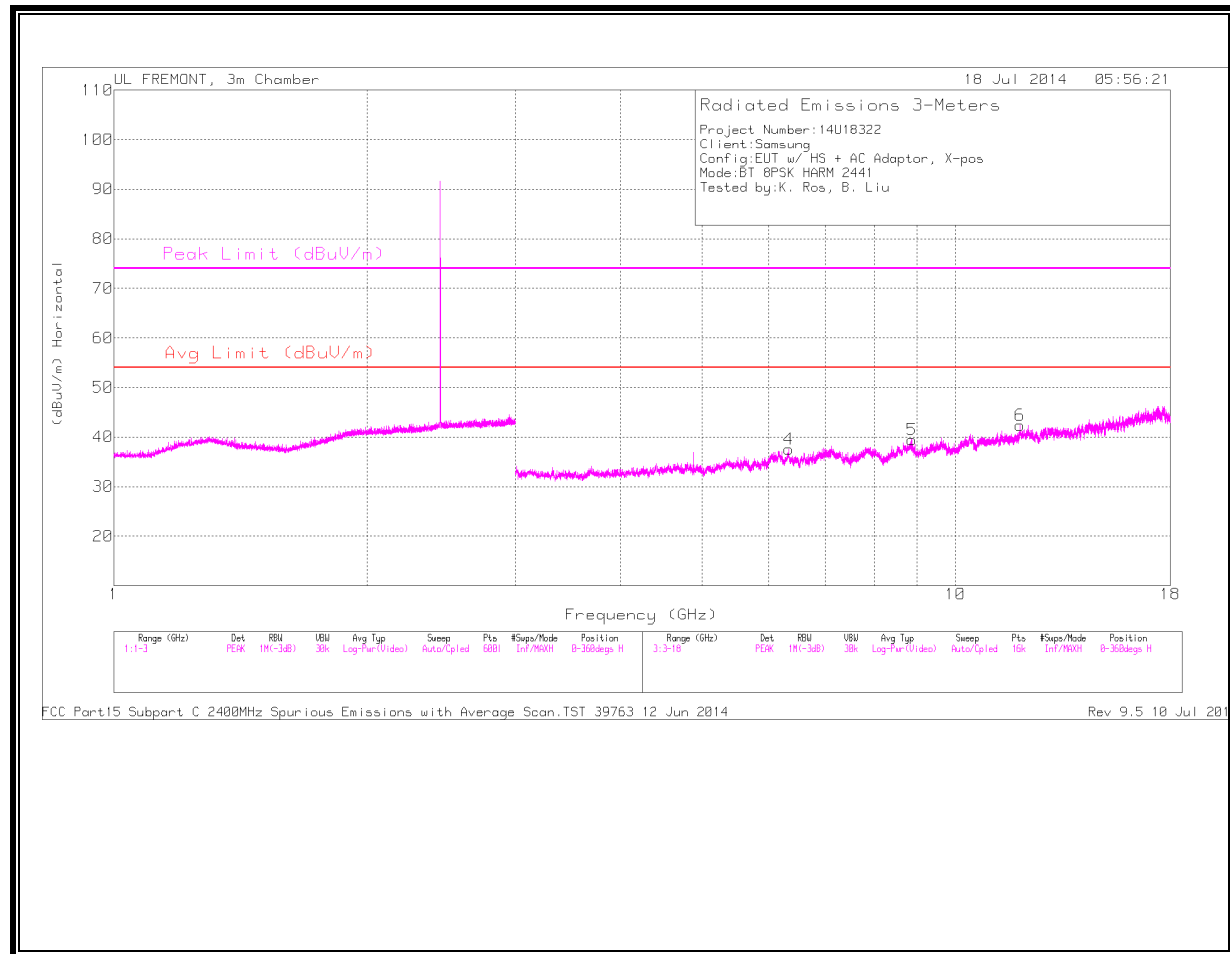
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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
1.107	43.14	PK3	27.4	-23.9	0	46.64	-	-	74	-27.36	2	100	H
2.046	42.43	PK3	31.6	-23.2	0	50.83	-	-	-	-	2	200	H
4.804	41.11	PK3	34.1	-30.3	0	44.91	-	-	74	-29.09	2	100	V
4.804	29.25	VB1T	34.1	-30.3	0	33.05	54	-20.95	-	-	2	100	V
6.056	40.08	PK3	35.3	-29.1	0	46.28	-	-	-	-	2	200	H
6.906	39.14	PK3	35.6	-28.6	0	46.14	-	-	-	-	2	200	V
10.409	37.17	PK3	37.4	-25	0	49.57	-	-	-	-	2	200	V

PK3 - FHSS Method: Maximum Peak

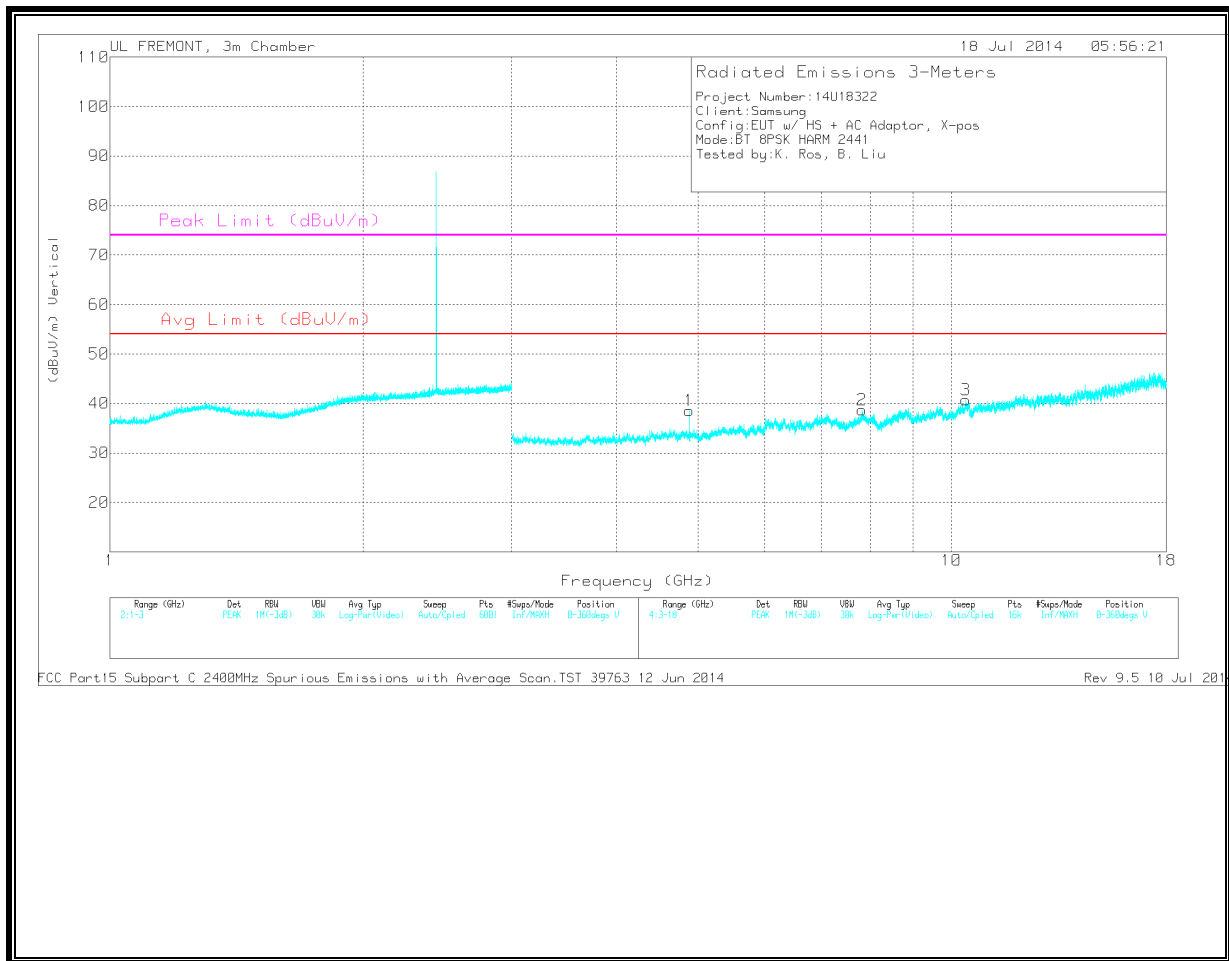
VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

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.

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.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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
1	4.882	34.71	PK	34	-30.1	0	38.61	-	-	74	-35.39	0-360	100	V
4	6.341	31.13	PK	35.4	-29	0	37.53	-	-	-	-	0-360	100	H
2	7.832	30.48	PK	35.8	-27.6	0	38.68	-	-	-	-	0-360	200	V
5	8.883	29.82	PK	36	-26.4	0	39.42	-	-	-	-	0-360	100	H
3	10.394	29	PK	37.3	-25.6	0	40.7	-	-	-	-	0-360	100	V
6	11.934	29.46	PK	39	-26.1	0	42.36	-	-	74	-31.64	0-360	200	H

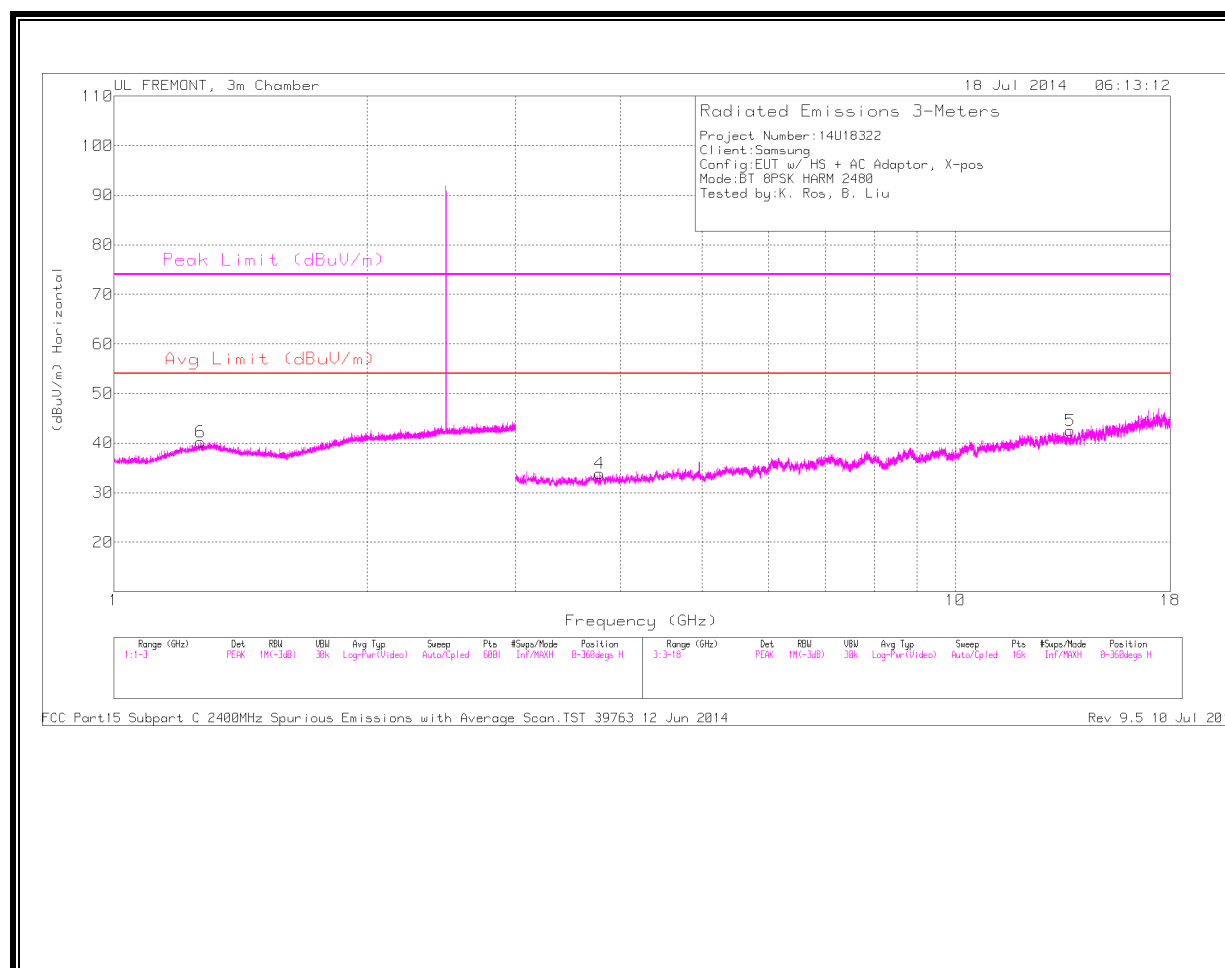
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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	41.67	PK3	34	-30.2	0	45.47	-	-	74	-28.53	0	100	V
4.882	30.27	VB1T	34	-30.1	0	34.17	54	-19.83	-	-	0	100	V
6.34	39.58	PK3	35.4	-29	0	45.98	-	-	-	-	0	100	H
7.833	38.71	PK3	35.8	-27.6	0	46.91	-	-	-	-	0	200	V
8.885	37.49	PK3	36	-26.4	0	47.09	-	-	-	-	0	100	H
10.395	37.49	PK3	37.3	-25.5	0	49.29	-	-	-	-	0	100	V
11.934	37.51	PK3	39	-26.1	0	50.41	-	-	74	-23.59	0	200	H

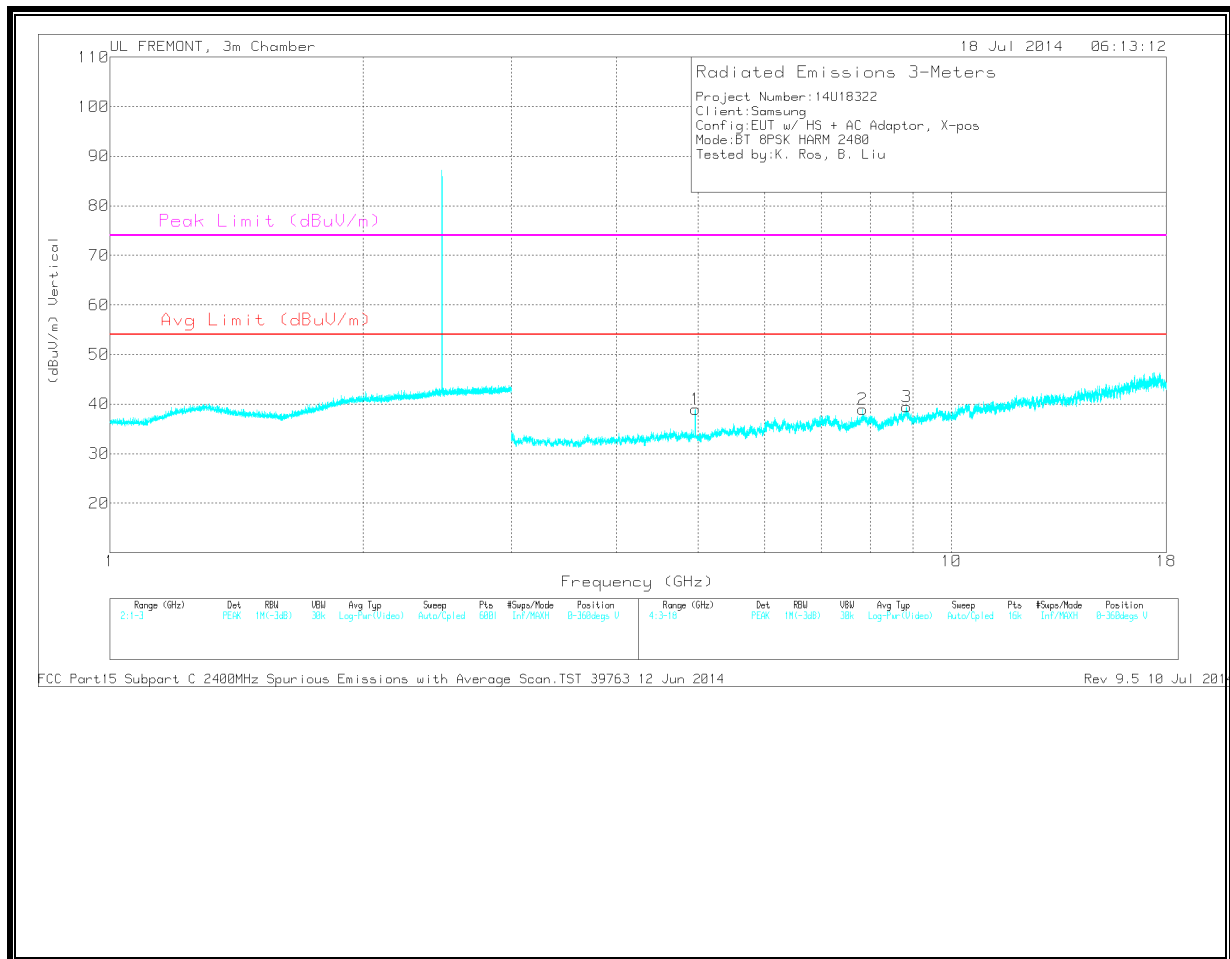
PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet



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

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

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	1.268	34.09	PK	29.9	-23.8	0	40.19	-	-	74	-33.81	0-360	200	H
4	3.779	31.72	PK	33.2	-31.1	0	33.82	-	-	74	-40.18	0-360	200	H
1	4.96	35.98	PK	34	-31	0	38.98	-	-	74	-35.02	0-360	200	V
2	7.837	30.64	PK	35.8	-27.5	0	38.94	-	-	-	-	0-360	200	V
3	8.846	29.92	PK	36	-26.5	0	39.42	-	-	-	-	0-360	200	V
5	13.681	30.69	PK	38.8	-27	0	42.49	-	-	-	-	0-360	100	H

PK - Peak detector

Radiated Emissions

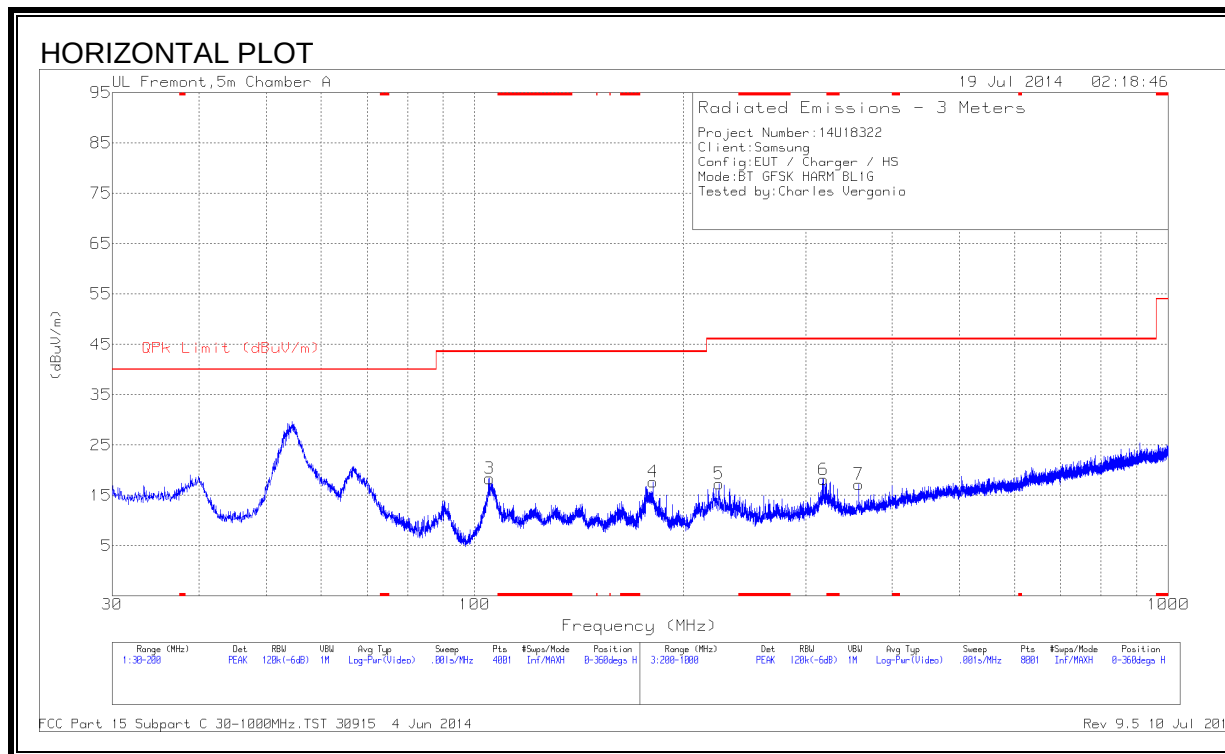
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.269	43.02	PK3	29.9	-23.8	0	49.12	-	-	74	-24.88	99	200	H
3.778	39.84	PK3	33.2	-31.2	0	41.84	-	-	74	-32.16	99	200	H
4.96	44.77	PK3	34	-31	0	47.77	-	-	74	-26.23	99	351	V
4.96	36.59	VB1T	34	-31	0	39.59	54	-14.41	-	-	99	351	V
7.835	39.13	PK3	35.8	-27.5	0	47.43	-	-	-	-	99	200	V
8.847	37.94	PK3	36	-26.5	0	47.44	-	-	-	-	99	200	V
13.681	38.47	PK3	38.8	-27	0	50.27	-	-	-	-	99	100	H

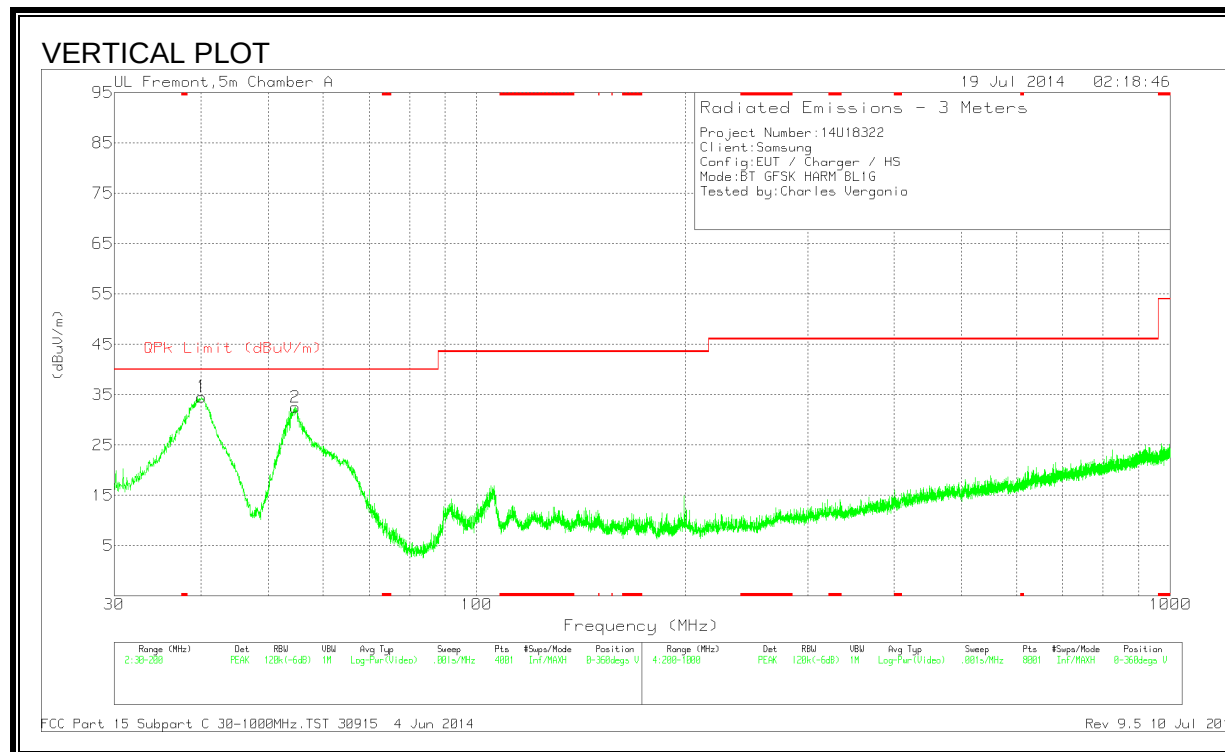
PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

9.3. WORST-CASE BELOW 1 GHz

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





DATA

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
1	40.115	51.36	PK	14.2	-31	34.56	40	-5.44	0-360	101	V
2	54.7775	55.73	PK	7.3	-30.5	32.53	40	-7.47	0-360	101	V
3	105.0125	37.26	PK	11.6	-30.5	18.36	43.52	-25.16	0-360	300	H
4	180.8325	36.3	PK	11.3	-29.9	17.7	43.52	-25.82	0-360	200	H
5	225	36.11	PK	10.9	-29.7	17.31	46.02	-28.71	0-360	200	H
6	318.5	33.37	PK	14	-29.2	18.17	46.02	-27.85	0-360	101	H
7	357.9	31.48	PK	14.6	-28.9	17.18	46.02	-28.84	0-360	101	H

PK - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

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

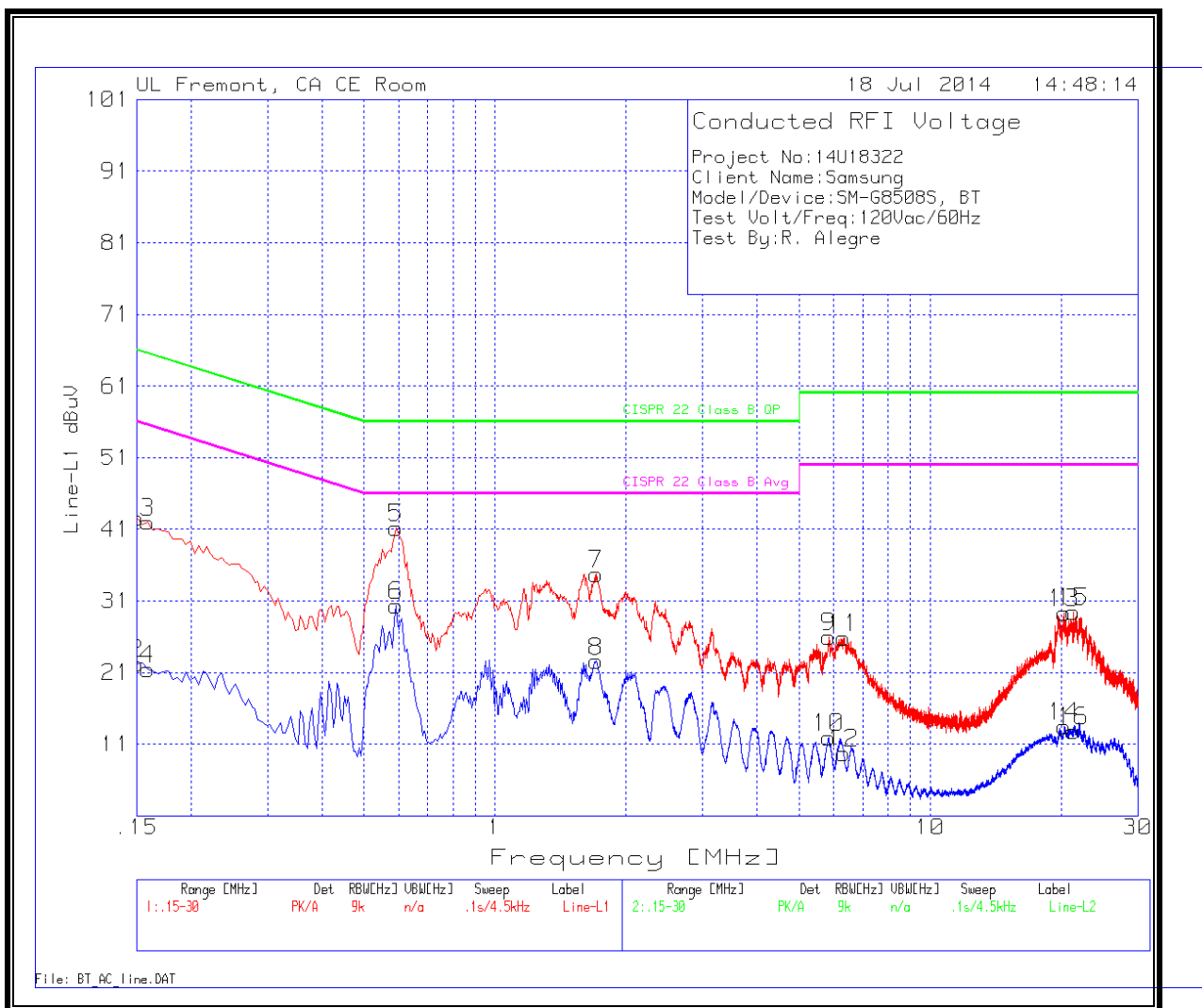
Line-L1 .15 - 30MHz

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	.15	41.17	PK	1.4	0	42.57	66	-23.43	-	-
2	.15	20.78	Av	1.4	0	22.18	-	-	56	-33.82
3	.159	40.71	PK	1.3	0	42.01	65.5	-23.49	-	-
4	.159	20.16	Av	1.3	0	21.46	-	-	55.5	-34.04
5	.591	40.87	PK	.3	0	41.17	56	-14.83	-	-
6	.591	30.01	Av	.3	0	30.31	-	-	46	-15.69
7	1.707	34.44	PK	.2	.1	34.74	56	-21.26	-	-
8	1.707	22.25	Av	.2	.1	22.55	-	-	46	-23.45
9	5.838	25.71	PK	.2	.1	26.01	60	-33.99	-	-
10	5.838	11.58	Av	.2	.1	11.88	-	-	50	-38.12
11	6.3285	25.57	PK	.2	.1	25.87	60	-34.13	-	-
12	6.3285	9.42	Av	.2	.1	9.72	-	-	50	-40.28
13	20.328	28.8	PK	.3	.2	29.3	60	-30.7	-	-
14	20.328	13.01	Av	.3	.2	13.51	-	-	50	-36.49
15	21.282	28.97	PK	.3	.2	29.47	60	-30.53	-	-
16	21.282	12.28	Av	.3	.2	12.78	-	-	50	-37.22

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)
17	.1545	40.83	PK	1.4	0	42.23	65.8	-23.57	-	-
18	.1545	17.89	Av	1.4	0	19.29	-	-	55.8	-36.51
19	.177	39.41	PK	1.2	0	40.61	64.6	-23.99	-	-
20	.177	16.76	Av	1.2	0	17.96	-	-	54.6	-36.64
21	.5865	39.89	PK	.3	0	40.19	56	-15.81	-	-
22	.5865	26.62	Av	.3	0	26.92	-	-	46	-19.08
23	1.41	29.82	PK	.2	0	30.02	56	-25.98	-	-
24	1.41	15.36	Av	.2	0	15.56	-	-	46	-30.44
25	1.995	30.24	PK	.2	.1	30.54	56	-25.46	-	-
26	1.995	15.62	Av	.2	.1	15.92	-	-	46	-30.08
27	6.3915	21.49	PK	.2	.1	21.79	60	-38.21	-	-
28	6.3915	9.69	Av	.2	.1	9.99	-	-	50	-40.01
29	23.7615	26.66	PK	.3	.2	27.16	60	-32.84	-	-
30	23.7615	15	Av	.3	.2	15.5	-	-	50	-34.5

LINE 1 RESULTS



LINE 2 RESULTS

