



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

**GT-S7275~802.11 B/G/N 1X1 HT20, + BT4.0 (LE) + GSM850/1900 AND
WCDMA850MHz BAR PHONE**

MODEL NUMBER: GT-S7275

FCC ID: A3LGTS7275

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Prepared for

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
416, MAETAN 3-DONG, YEONGTONG-GU
SUWON-CITY, GYEONGGI-DO 443-742, SOUTH KOREA

EUT DESCRIPTION: 802.11 B/G/N 1X1 HT20, + BT4.0 (LE) +
GSM850/1900 AND WCDMA850MHz BAR PHONE

MODEL: GT-S7275

SERIAL NUMBER: 47901EAF5D9C3077 (RADIATED)
47901EB9147C30DD (CONDUCTED)

DATE TESTED: June 6-24, 2013

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 3	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.

Approved & Released For
UL Verification Services Inc. By:

Tested By:



PHILIP KIM
WiSE PROGRAM MANAGER
UL VERIFICATION SERVICES INC.

CHARLES VERGONIO
WiSE EMC ENGINEER
UL VERIFICATION SERVICES INC.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2009, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

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:

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

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 1000 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 bar-style cell phone featuring 802.11 B/G/N 1X1 HT20, + BT4.0 (LE) + GSM850/1900 AND WCDMA850MHz SMART PHONE

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2412 - 2462	802.11b	19.53	89.74
2412 - 2462	802.11g	22.97	198.15
2412 - 2462	802.11n HT20	21.8	151.36

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a FPCB antenna, with a maximum gain of 5.93 dBi.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was REV 0.1 and the software version was S7275.001.

5.5. 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.

Worst-case data rates as provided by the client were:

Based on the baseline scan, the worst-case data rates were:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20mode: MCS0

5.1. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Samsung Electronics	ETA0U80EBE	DK1C220TS/A-E	DoC
Headset	Samsung Electronics	N/A	N/A	DoC

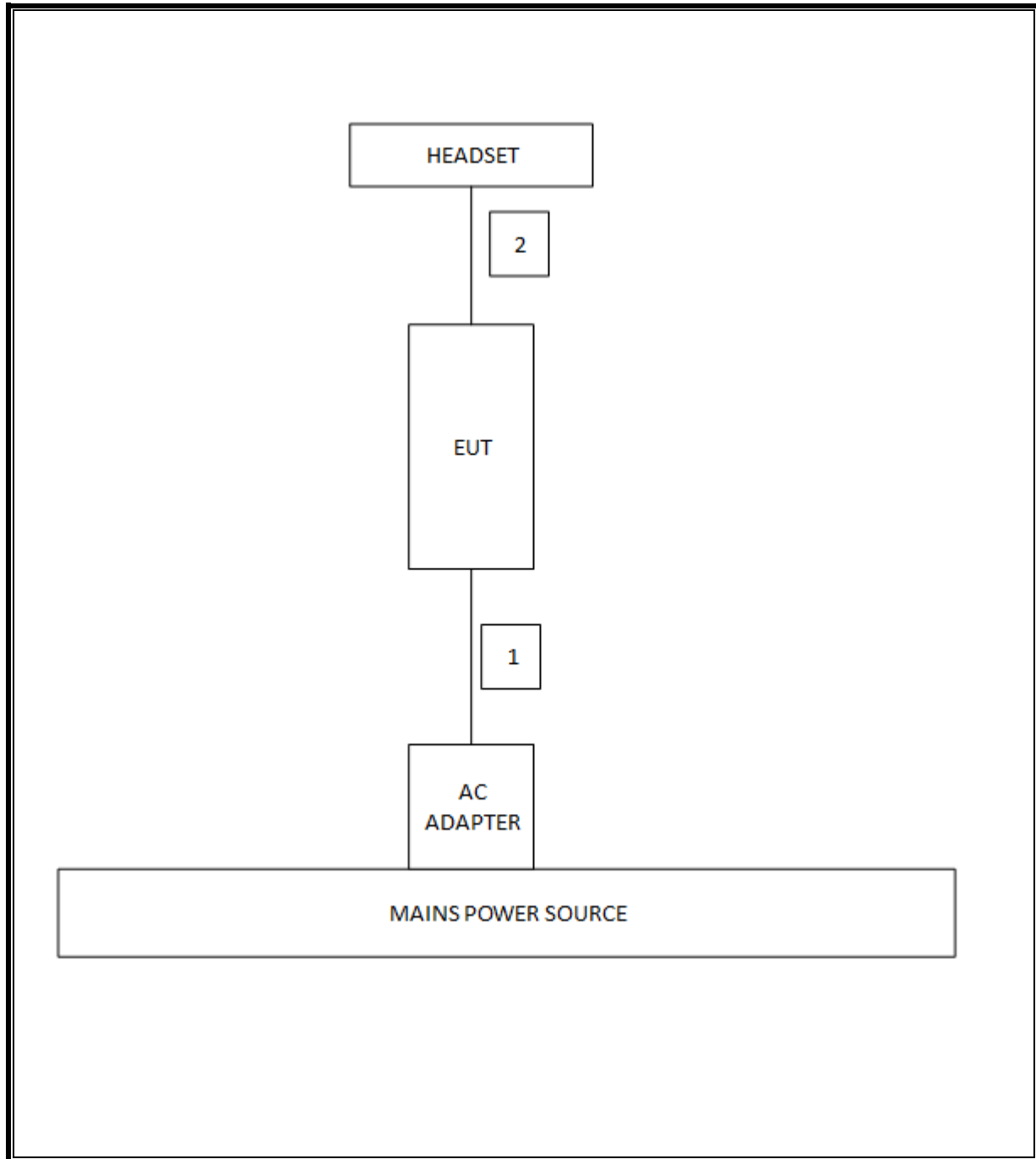
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	USB	Shielded	1.6m	N/A
2	Headset	1	Audio	Shielded	1.5m	N/A

TEST SETUP

The EUT is a stand-alone unit that was tested in the worst case orientation and configuration, where applicable, during the tests. Test software exercised the radio.

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 Date	Cal Due
Antenna, Horn, 18 GHz	EMCO	3115	C00872	09/20/12	09/20/13
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00589	07/28/12	07/28/13
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	10/21/12	10/21/13
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C00749	10/21/12	10/21/13
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00558	02/21/13	02/21/14
Reject Filter, 2.4-2.5 GHz	Micro-Tronics	BRC13192	N02683	CNR	CNR
Bilog 30-2000MHz	Sunol	JB1	C01071	07/26/12	07/26/13
Power meter	HP	437B	T226	06/25/12	06/25/13
Power Sensor	HP	8481A	T233	06/26/12	06/26/13
LISN, 30 MHz	FCC	LISN-50/250-25-	N02625	01/14/13	01/14/14
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-B	N02481	03/07/12	03/07/14

7. MEASUREMENT METHODS

KDB 558074 Measurement Procedure PK2 is used for power and PKPSD is used for power spectral density.

Unwanted emissions within Restricted Bands are measured using traditional radiated procedures.

8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

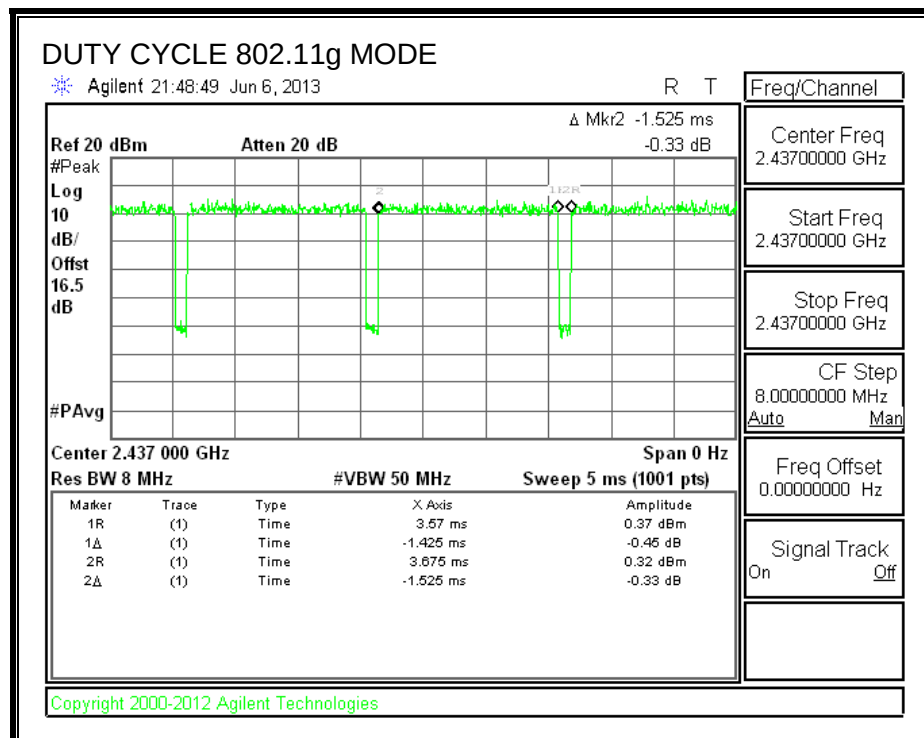
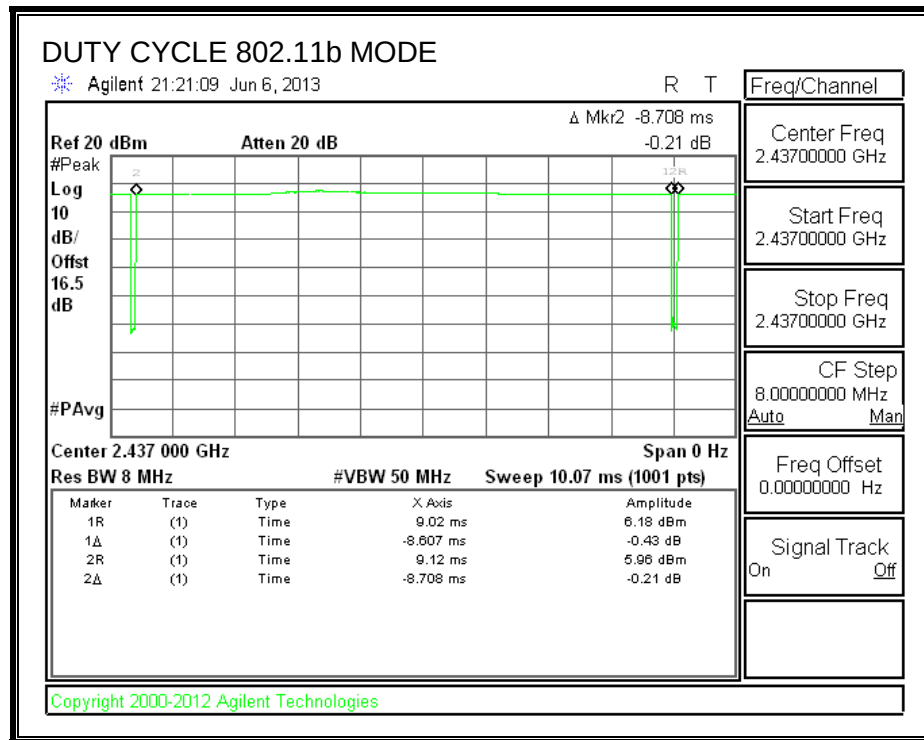
PROCEDURE

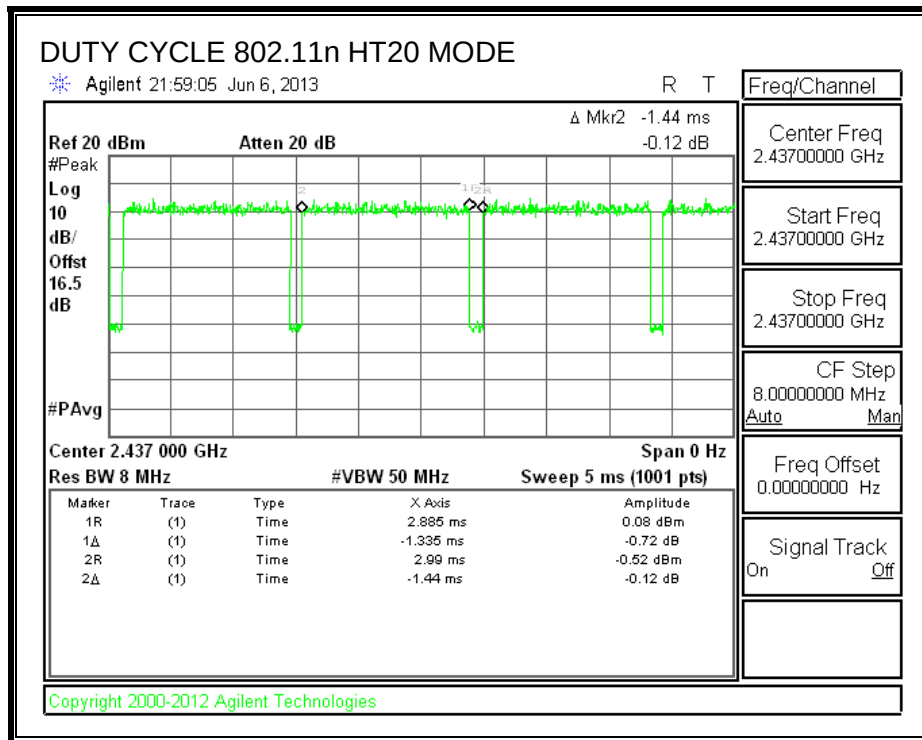
KDB 789033 Zero-Span Spectrum Analyzer Method.

8.1.1. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
2.4GHz						
802.11b	8.61	9	0.988	98.8%	0.00	0.010
802.11g	1.43	2	0.934	93.4%	0.29	0.702
802.11n HT20	1.34	1	0.927	92.7%	0.33	0.749

8.1.2. DUTY CYCLE PLOTS





9. ANTENNA PORT TEST RESULTS

9.1. 802.11b MODE IN THE 2.4 GHz BAND

9.1.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-210 A8.2 (a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

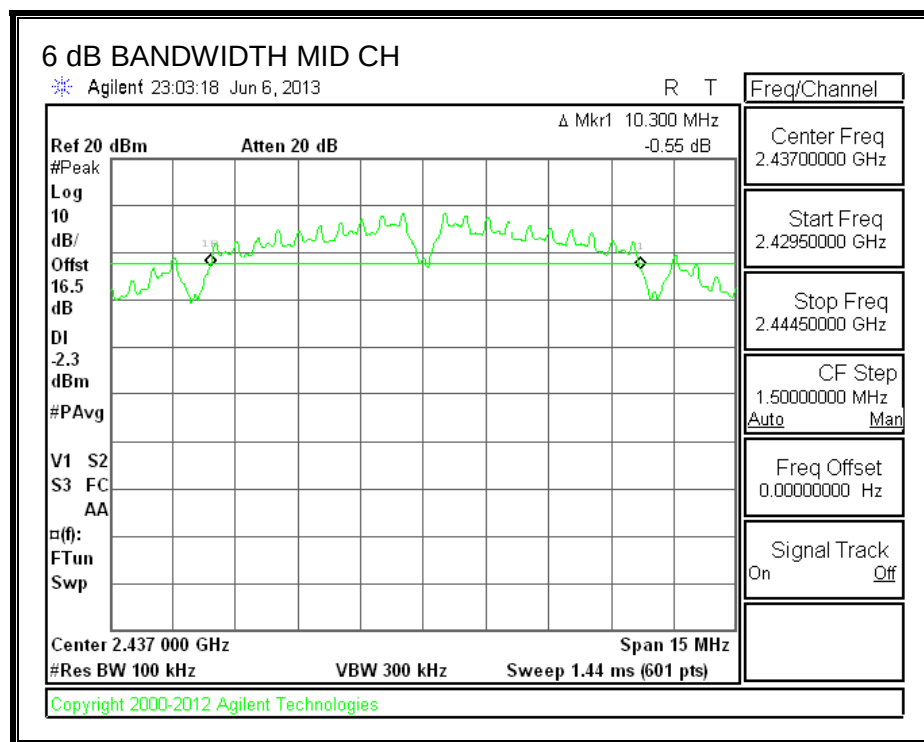
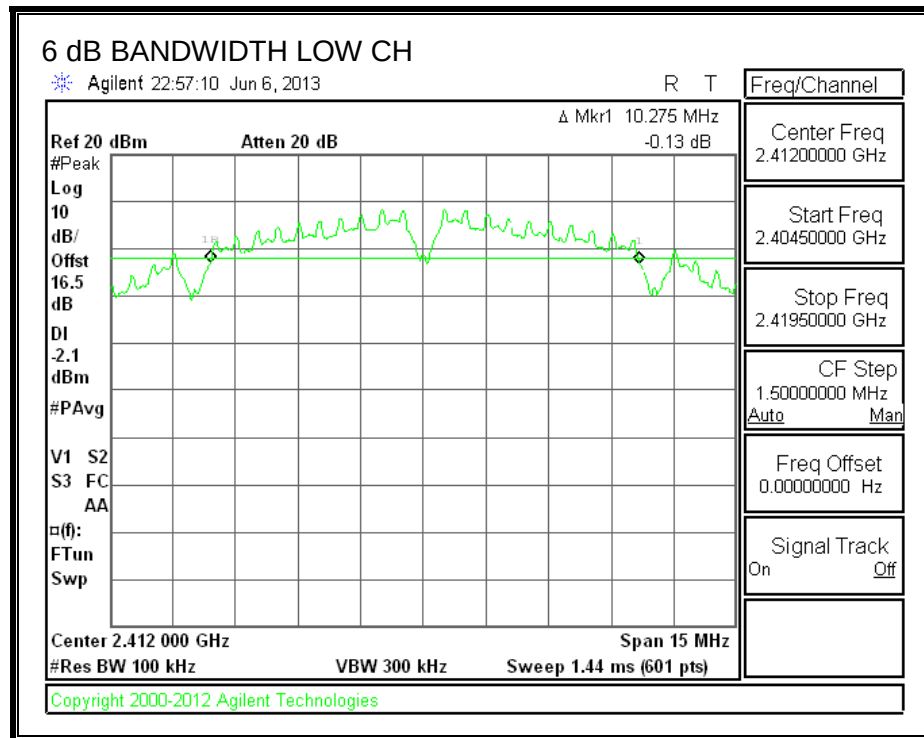
TEST PROCEDURE

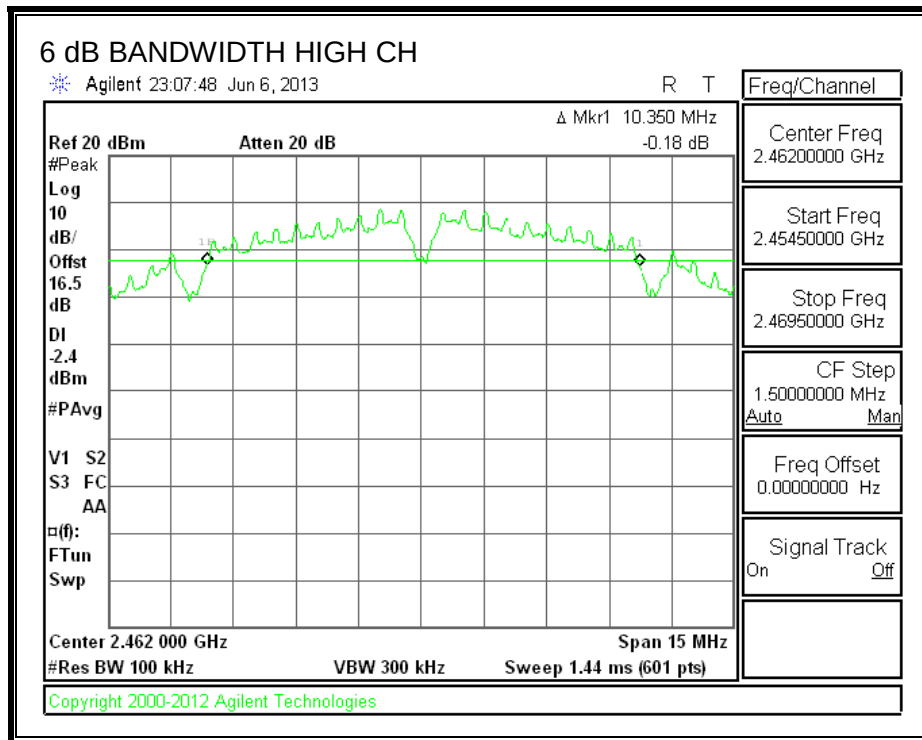
The transmitter output is connected to a spectrum analyzer with the RBW set between 1% and 5% of the EBW, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	10.275	0.5
Mid	2437	10.300	0.5
High	2462	10.350	0.5

6 dB BANDWIDTH





9.1.2. 99% BANDWIDTH

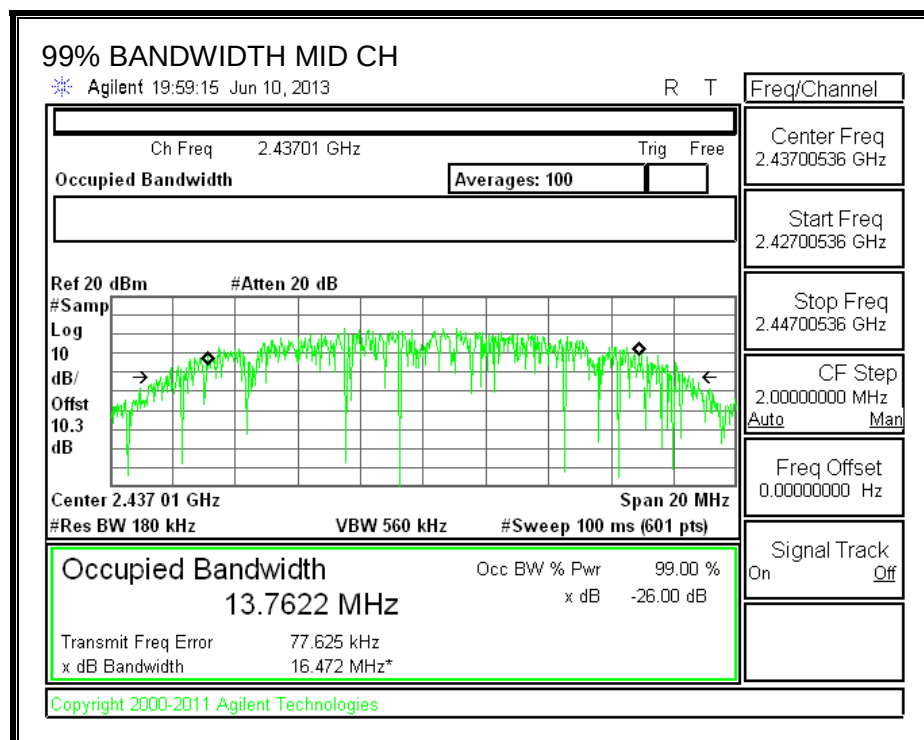
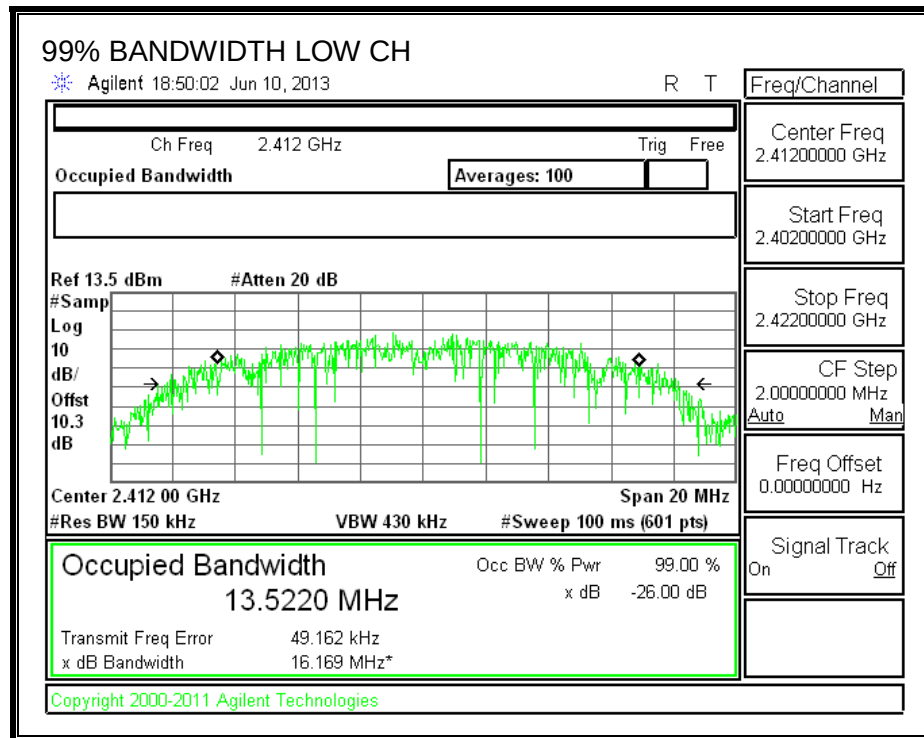
LIMITS

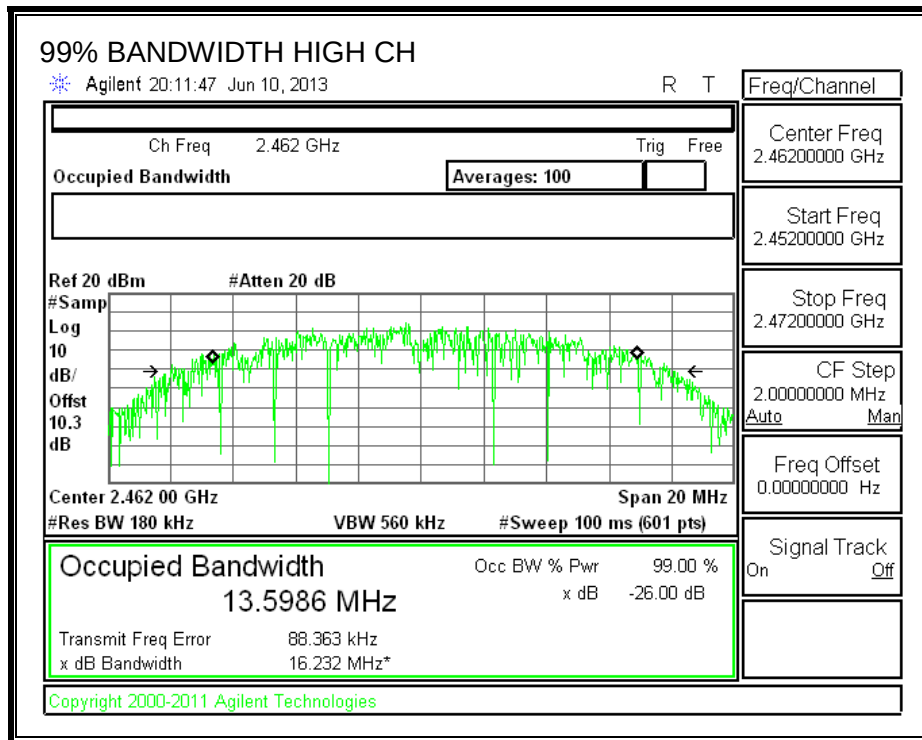
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	13.5220
Mid	2437	13.7622
High	2462	13.5986

99% BANDWIDTH





9.1.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10 dB (including 10 dB pad and .7 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
Low	2412	15.64
Mid	2437	15.75
High	2462	15.73

9.1.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-210 A8.4

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

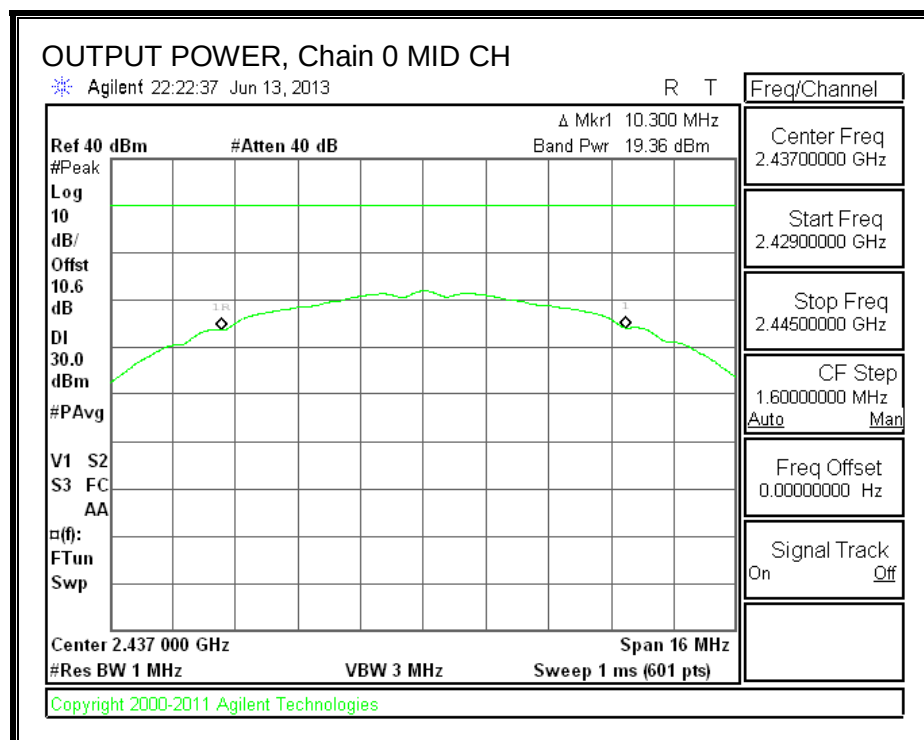
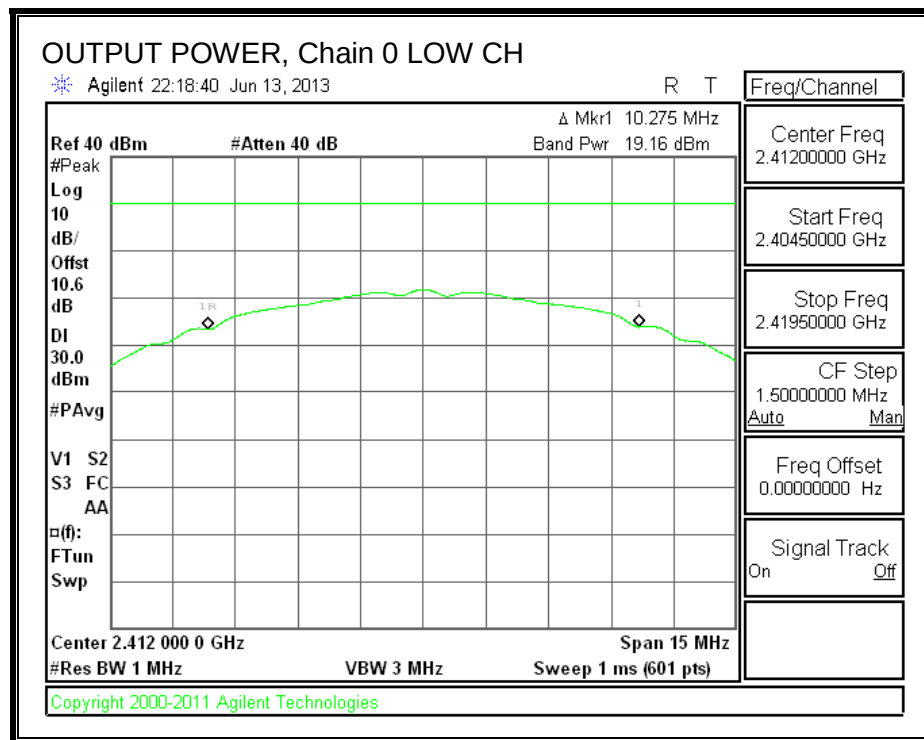
Limits

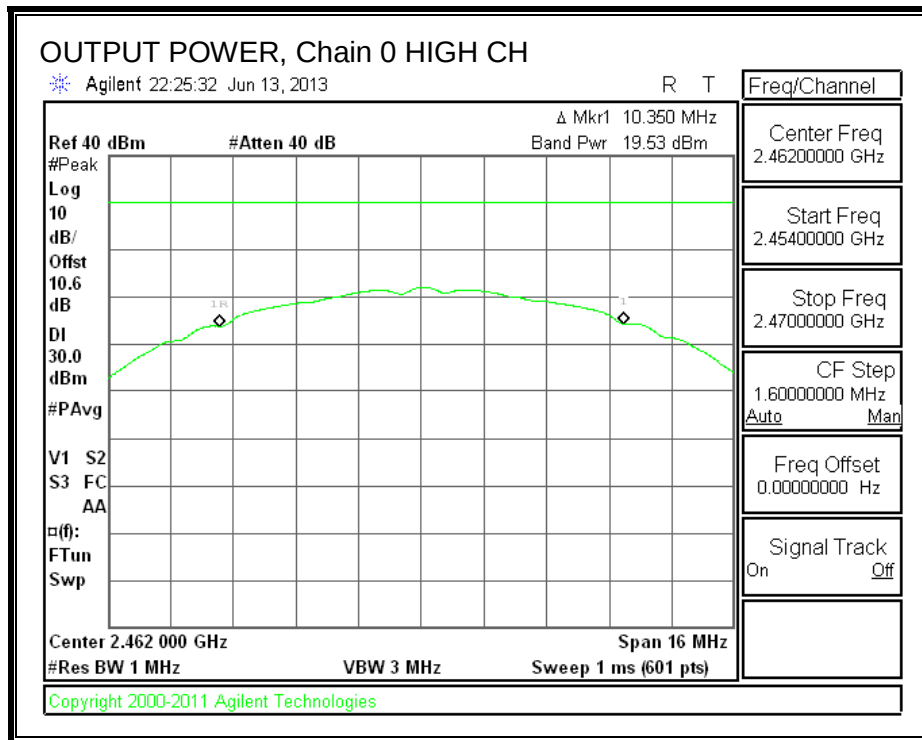
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	5.93	30.00	30	36	30.00
Mid	2437	5.93	30.00	30	36	30.00
High	2462	5.93	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	19.16	19.16	30.00	-10.84
Mid	2437	19.36	19.36	30.00	-10.64
High	2462	19.53	19.53	30.00	-10.47

OUTPUT POWER, Chain 0





9.1.5. PSD

LIMITS

FCC §15.247

IC RSS-210 A8.2

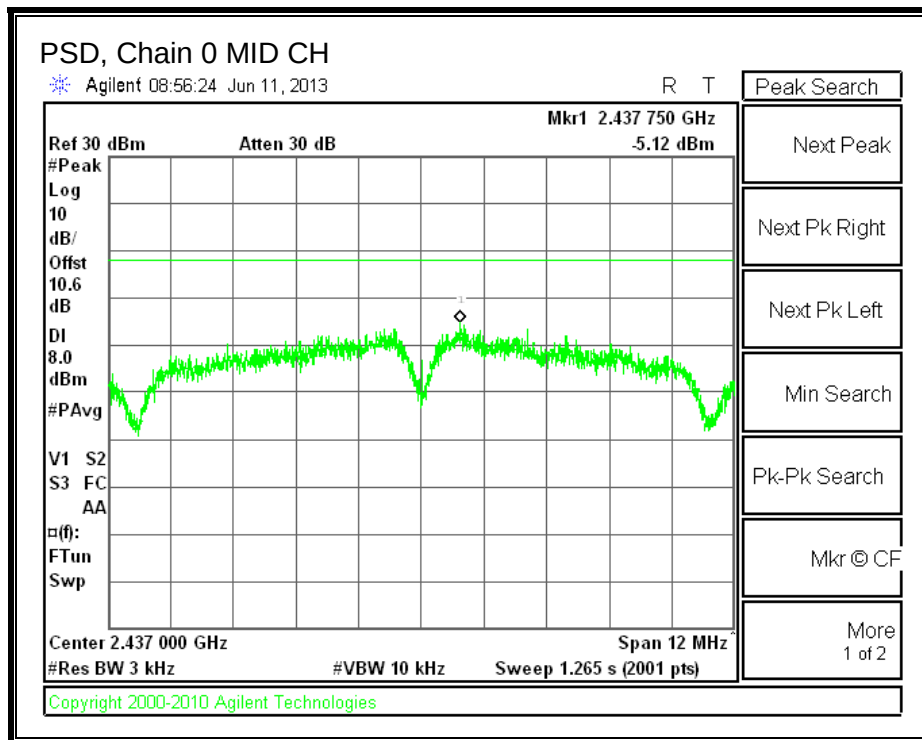
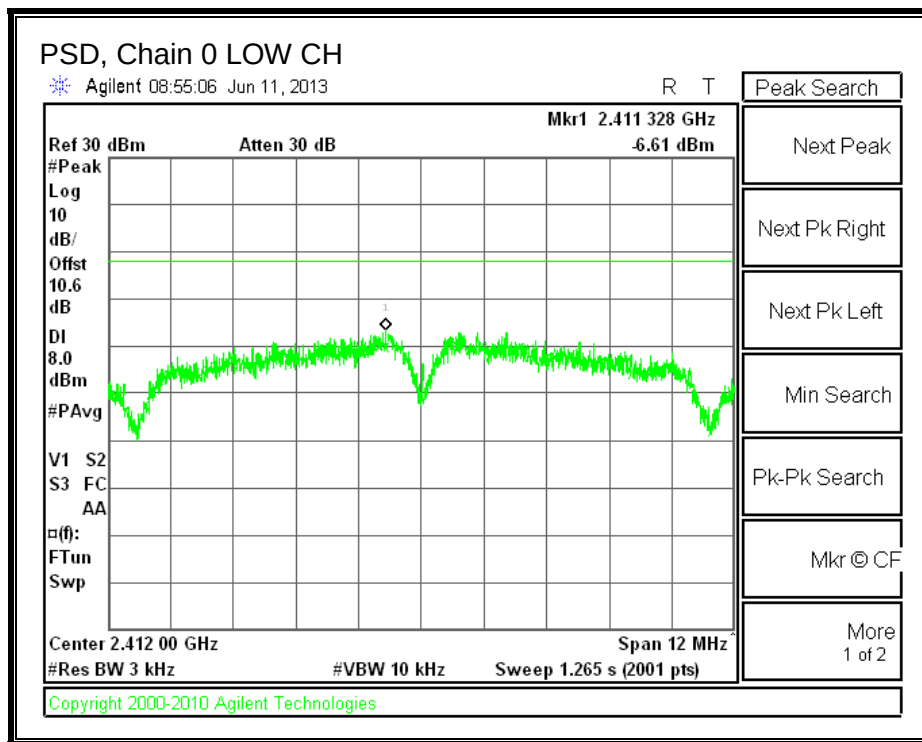
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

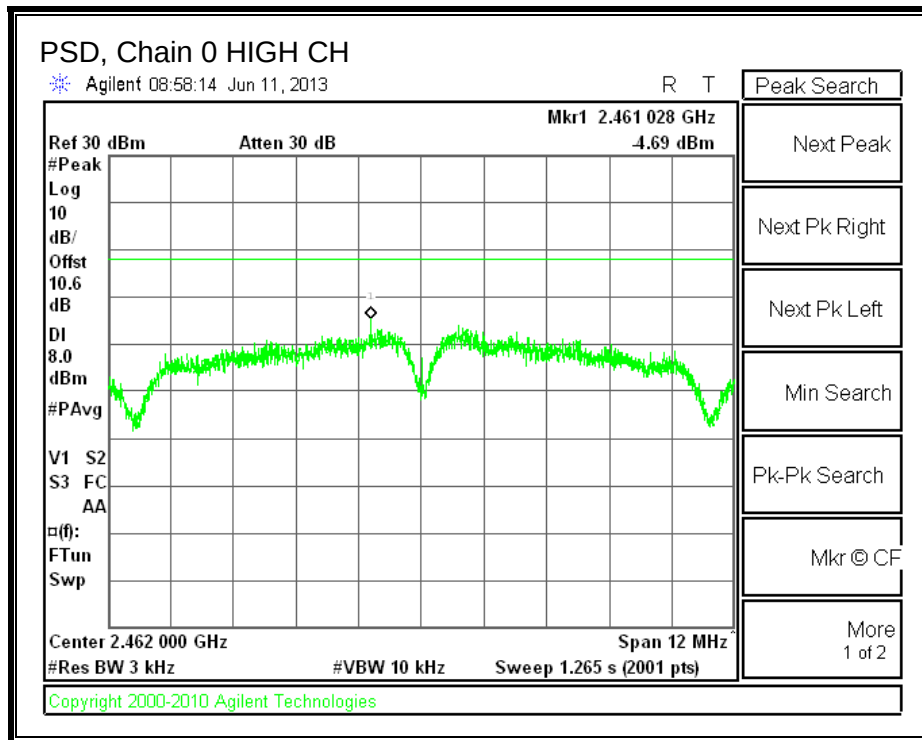
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-6.61	8.0	-14.6
Mid	2437	-5.12	8.0	-13.1
High	2462	-4.69	8.0	-12.7

PSD, Chain 0





9.1.6. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

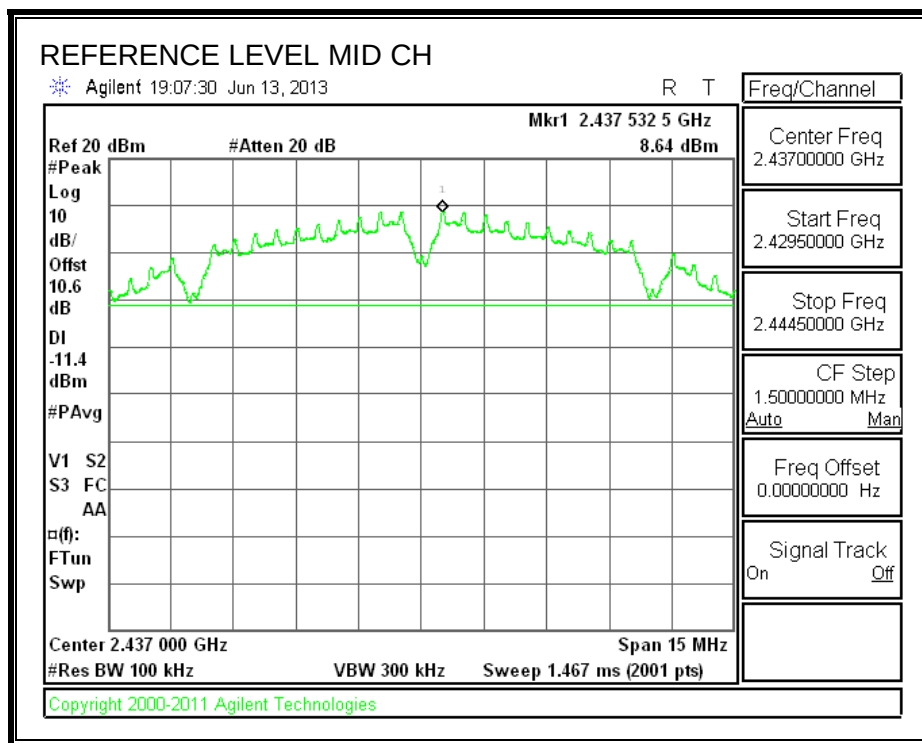
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

TEST PROCEDURE

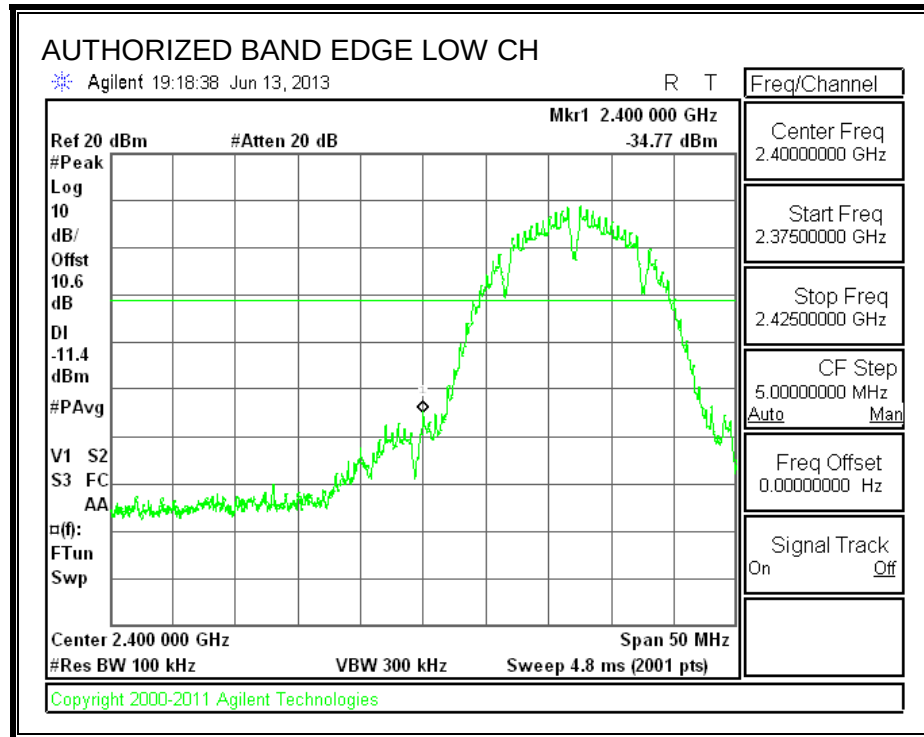
The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

RESULTS

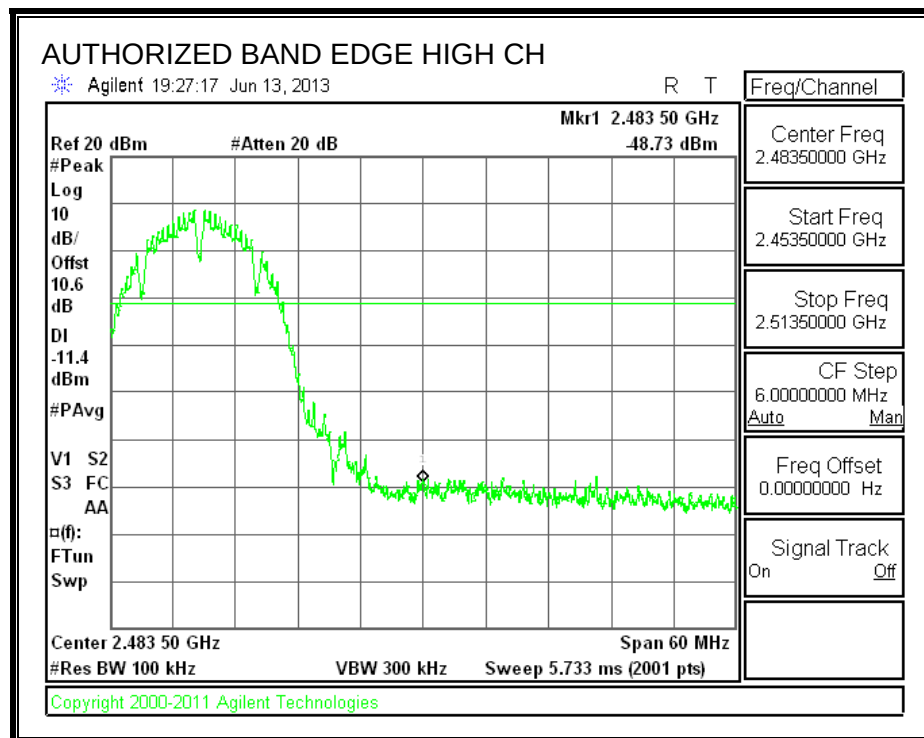
IN-BAND REFERENCE LEVEL



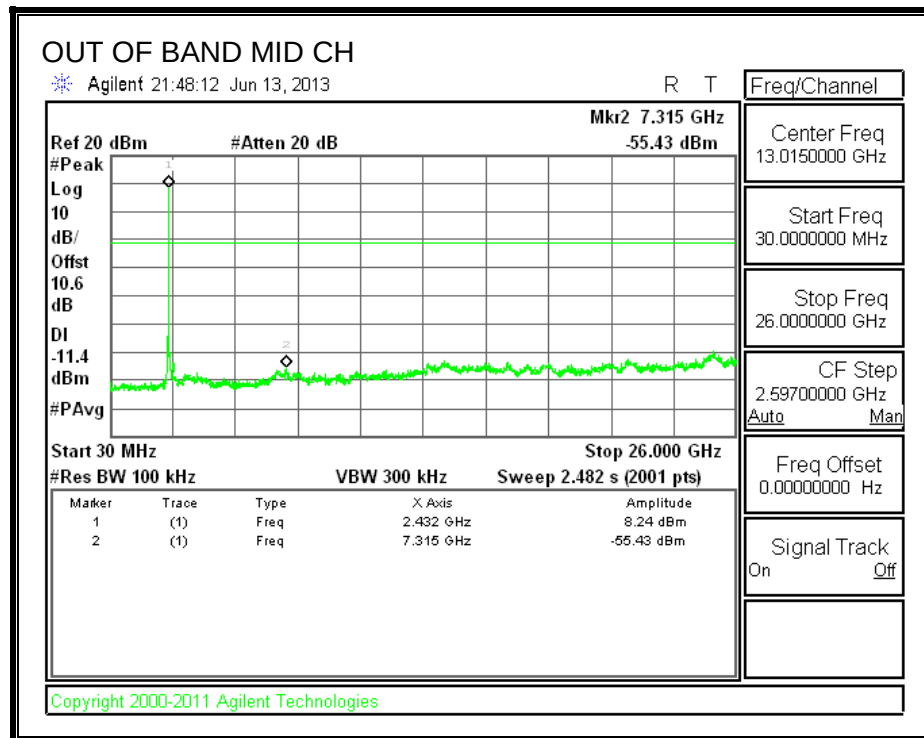
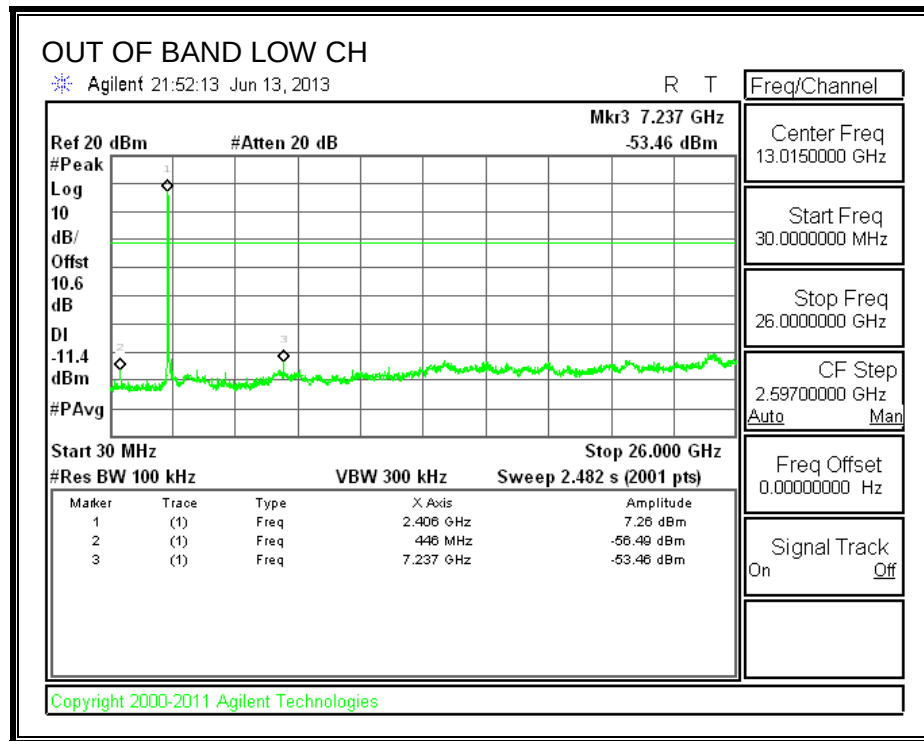
LOW CHANNEL BANDEDGE

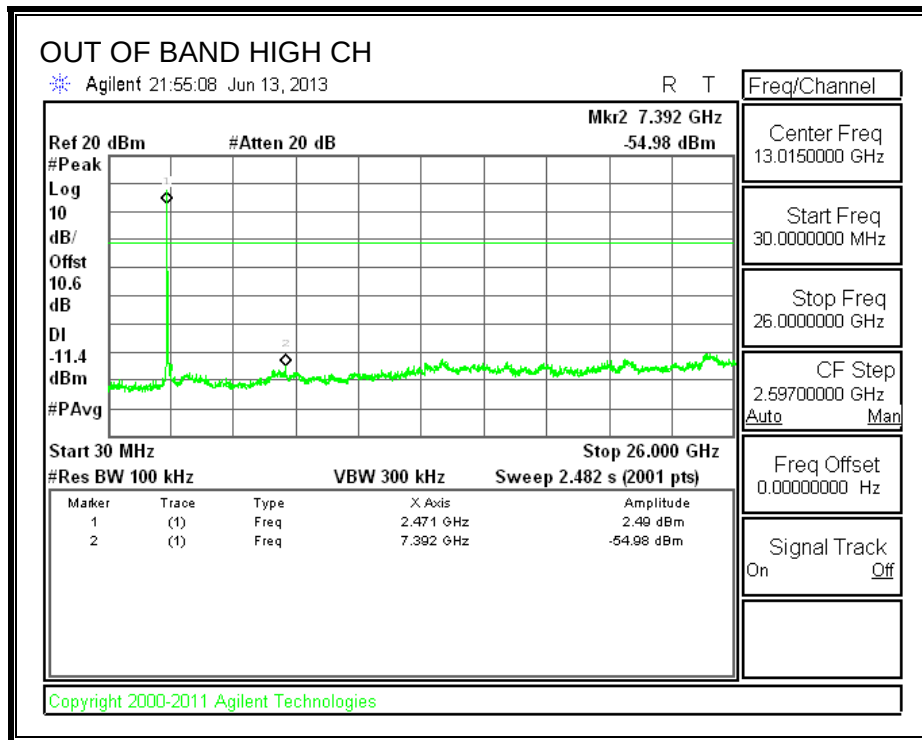


HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS





9.2. 802.11g MODE IN THE 2.4 GHz BAND

9.2.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-210 A8.2 (a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

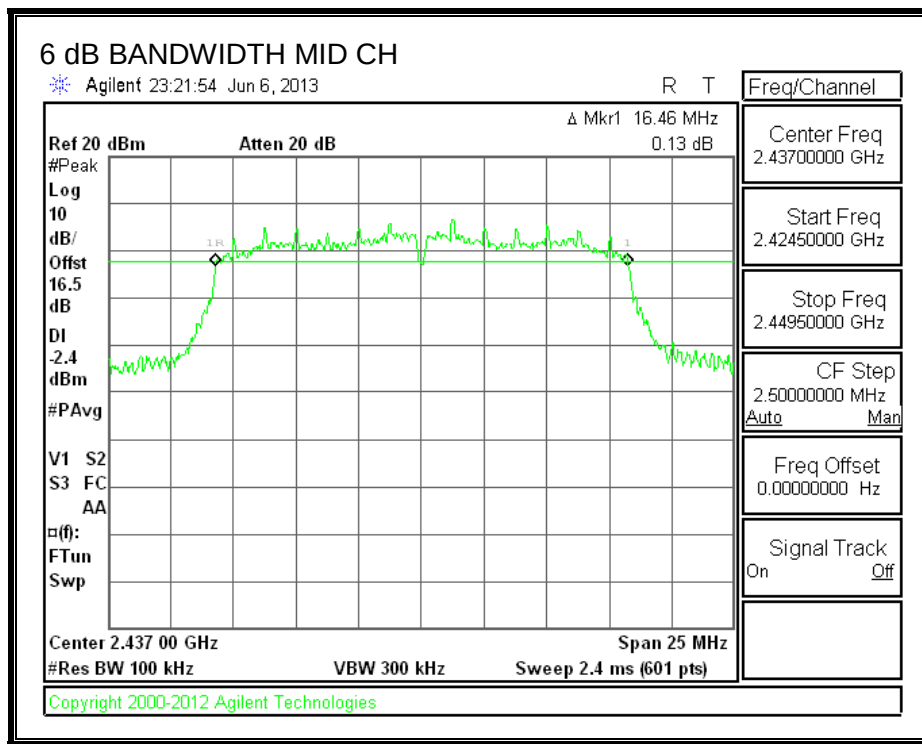
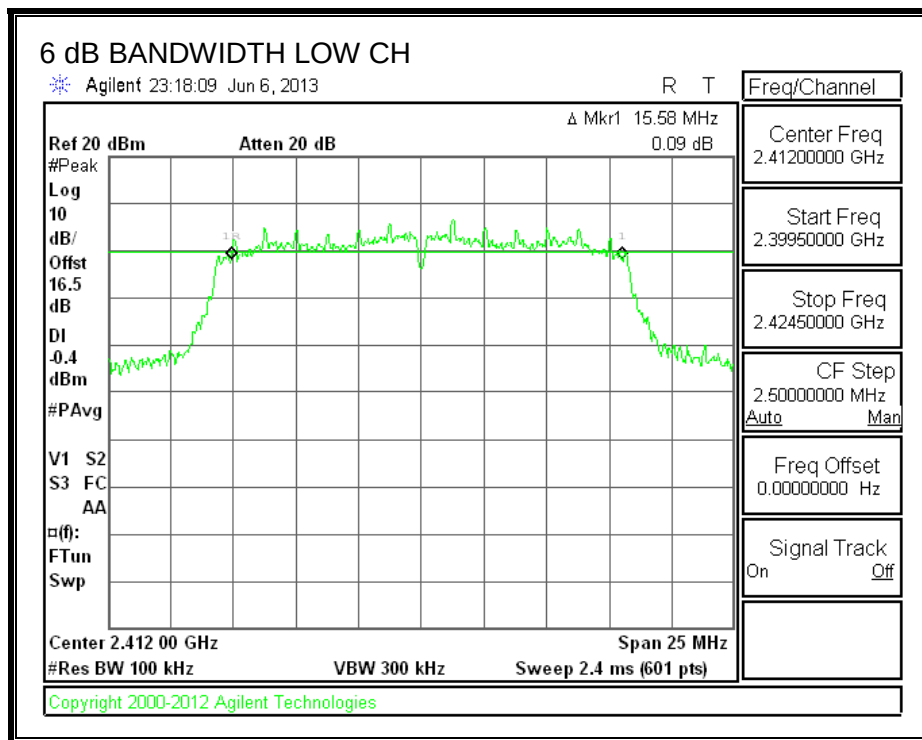
TEST PROCEDURE

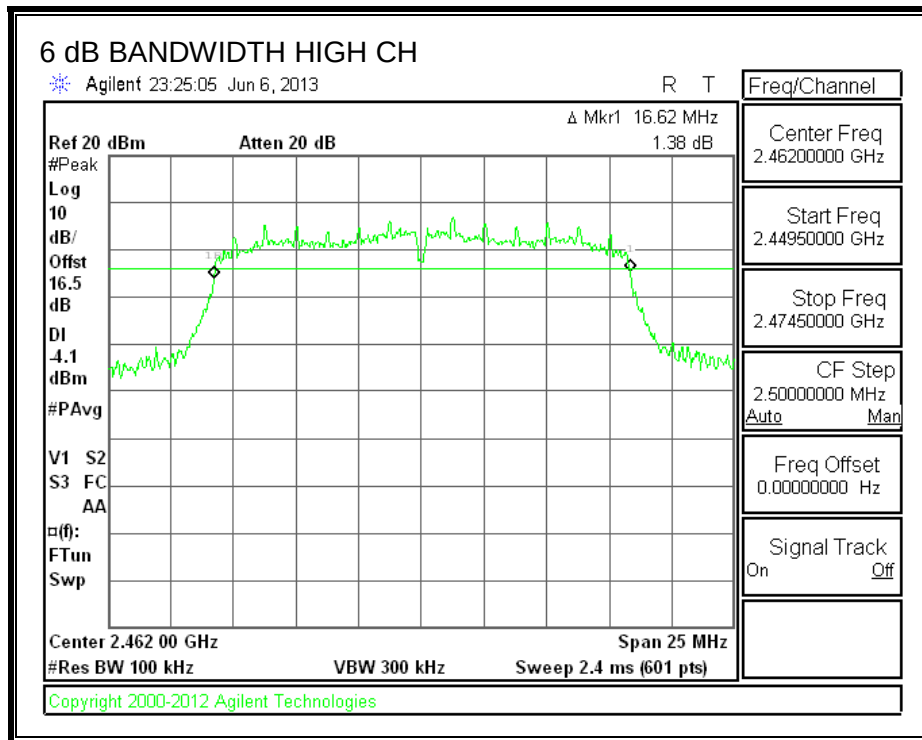
The transmitter output is connected to a spectrum analyzer with the RBW set between 1% and 5% of the EBW, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	15.580	0.5
Mid	2437	16.460	0.5
High	2462	16.620	0.5

6 dB BANDWIDTH





9.2.2. 99% BANDWIDTH

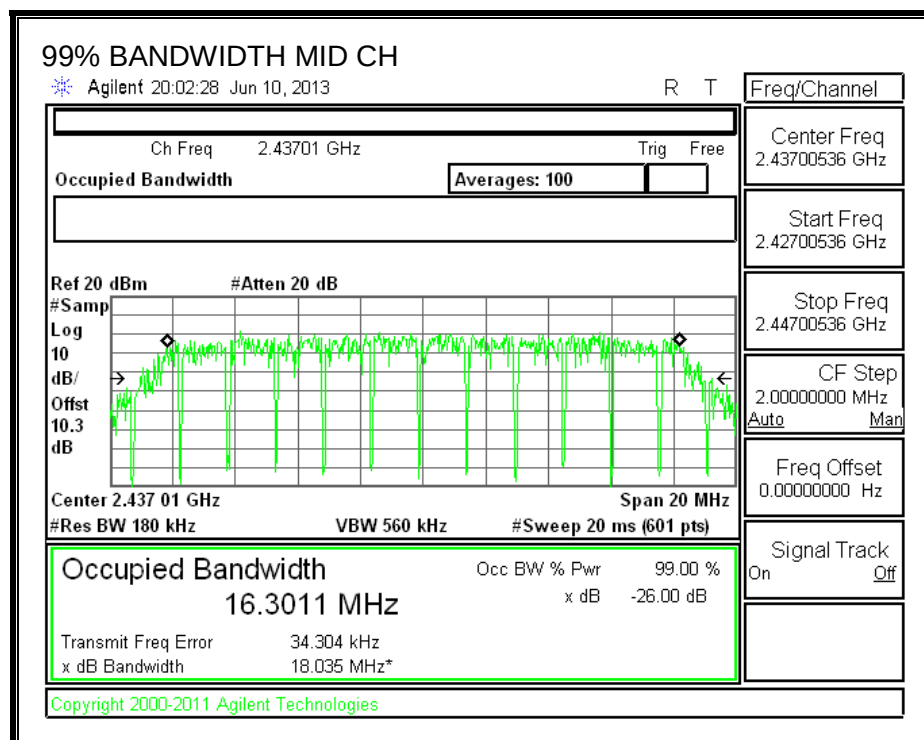
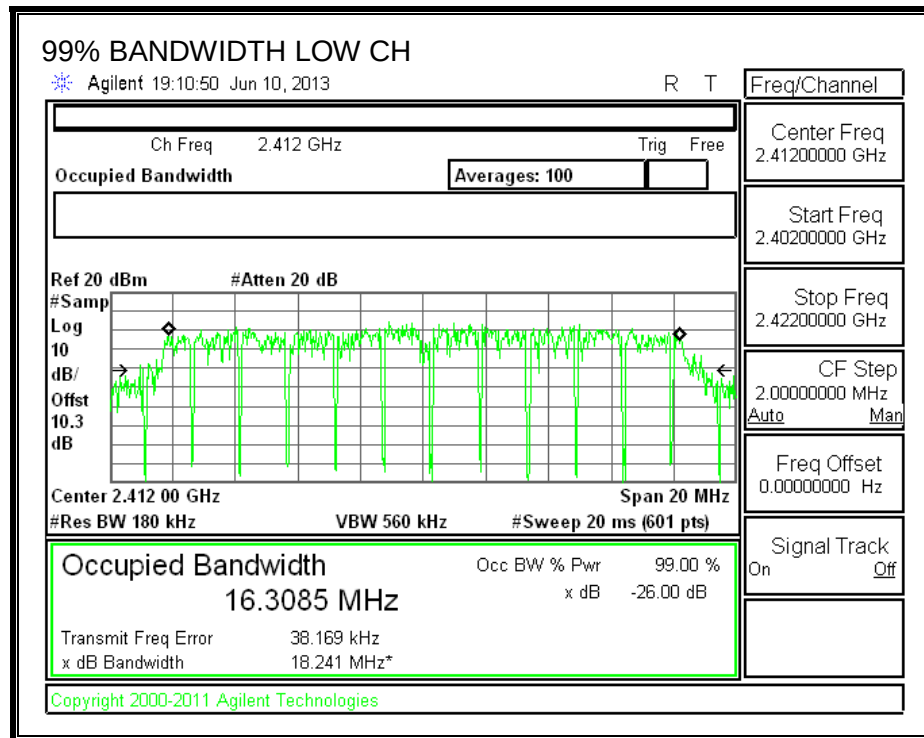
LIMITS

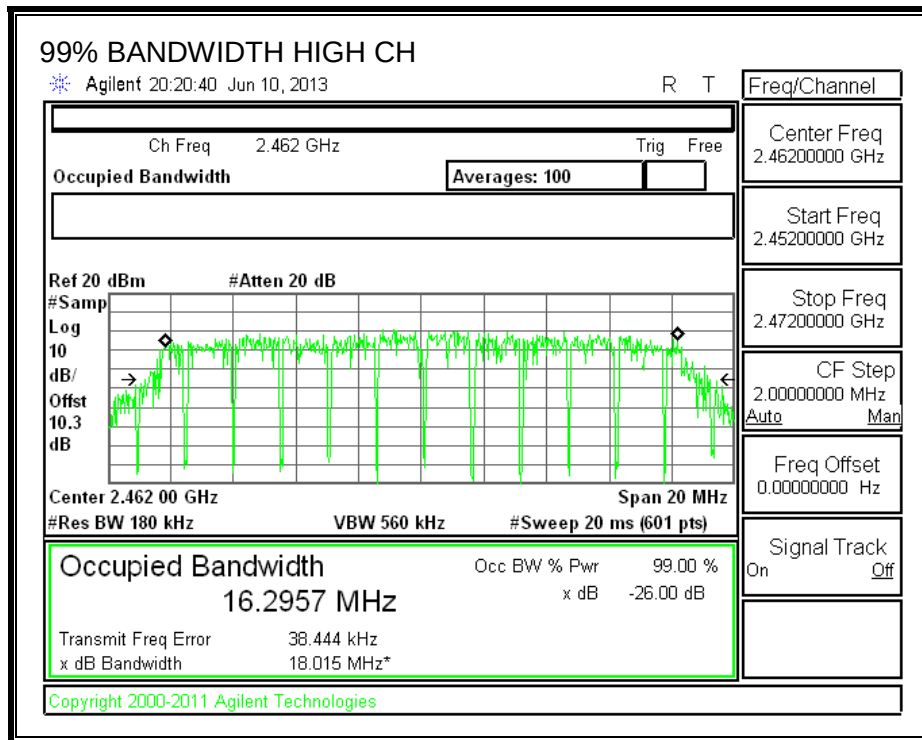
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.3085
Mid	2437	16.3011
High	2462	16.2957

99% BANDWIDTH





9.2.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10 dB (including 10 dB pad and .7 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
Low	2412	13.46
Mid	2437	13.49
High	2462	13.60

9.2.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-210 A8.4

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

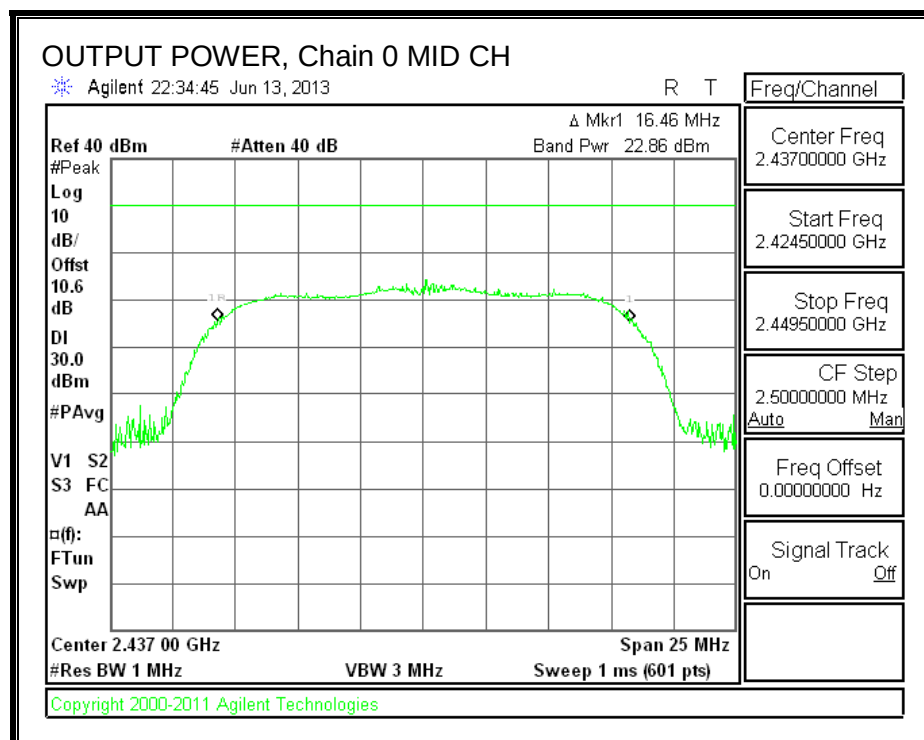
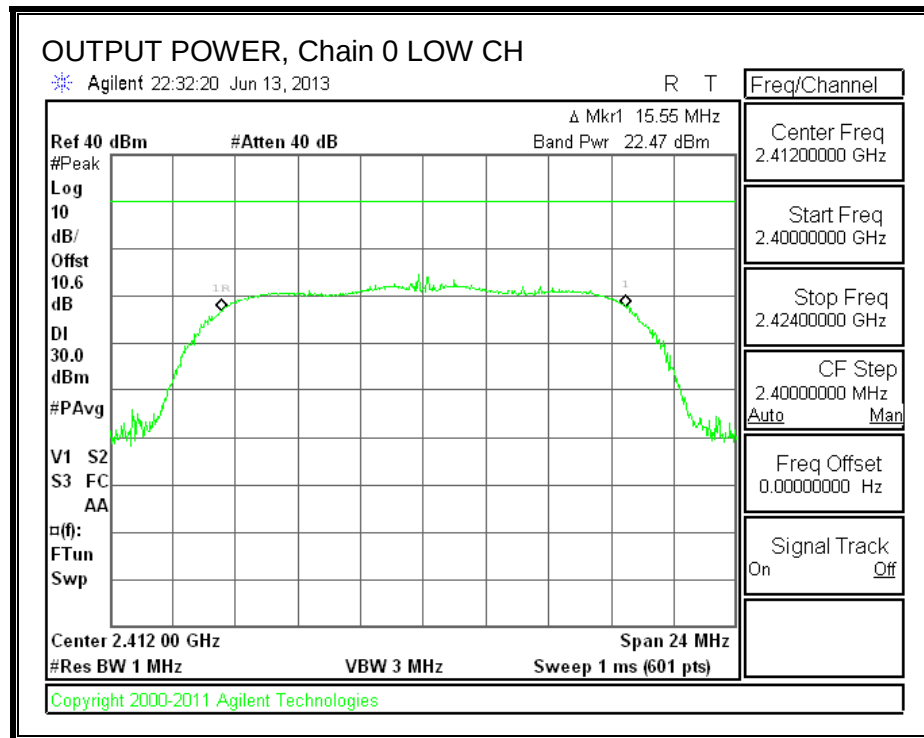
Limits

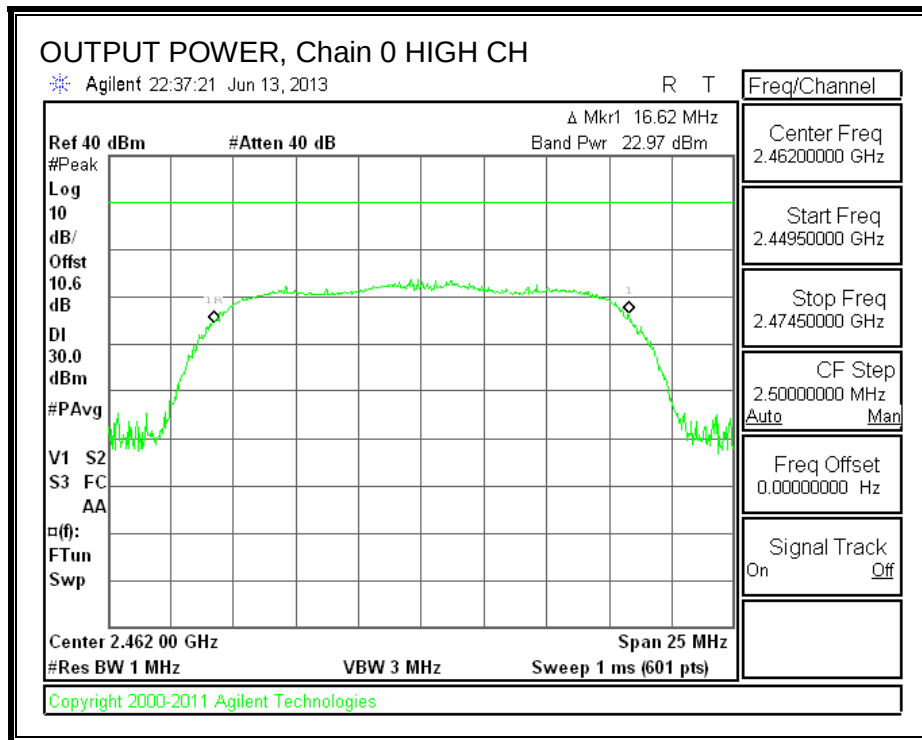
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	5.93	30.00	30	36	30.00
Mid	2437	5.93	30.00	30	36	30.00
High	2462	5.93	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	22.47	22.47	30.00	-7.53
Mid	2437	22.86	22.86	30.00	-7.14
High	2462	22.97	22.97	30.00	-7.03

OUTPUT POWER, Chain 0





9.2.5. PSD

LIMITS

FCC §15.247

IC RSS-210 A8.2

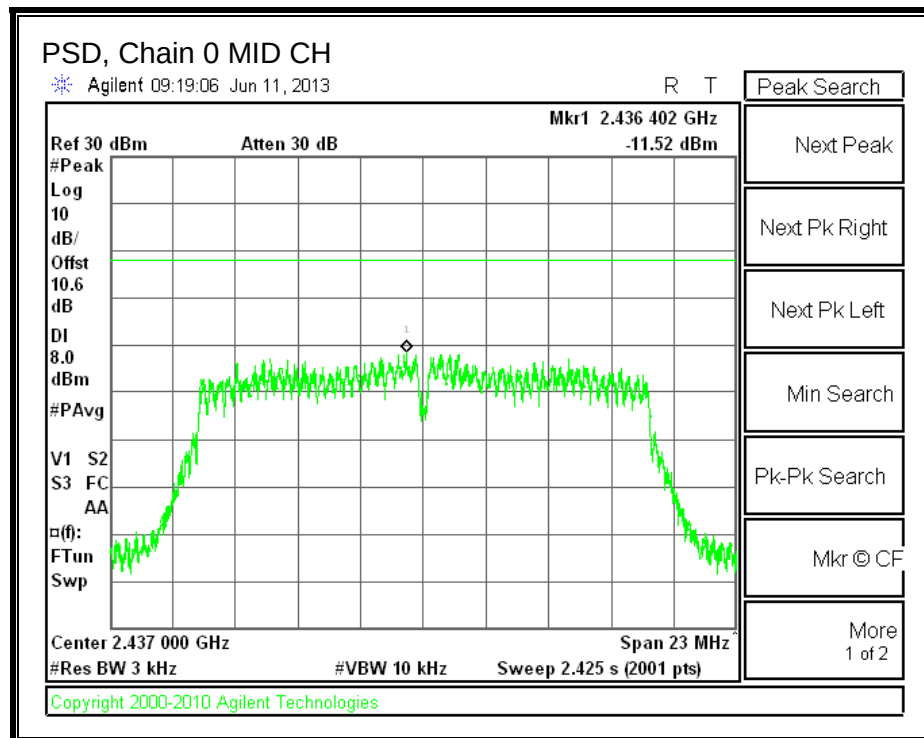
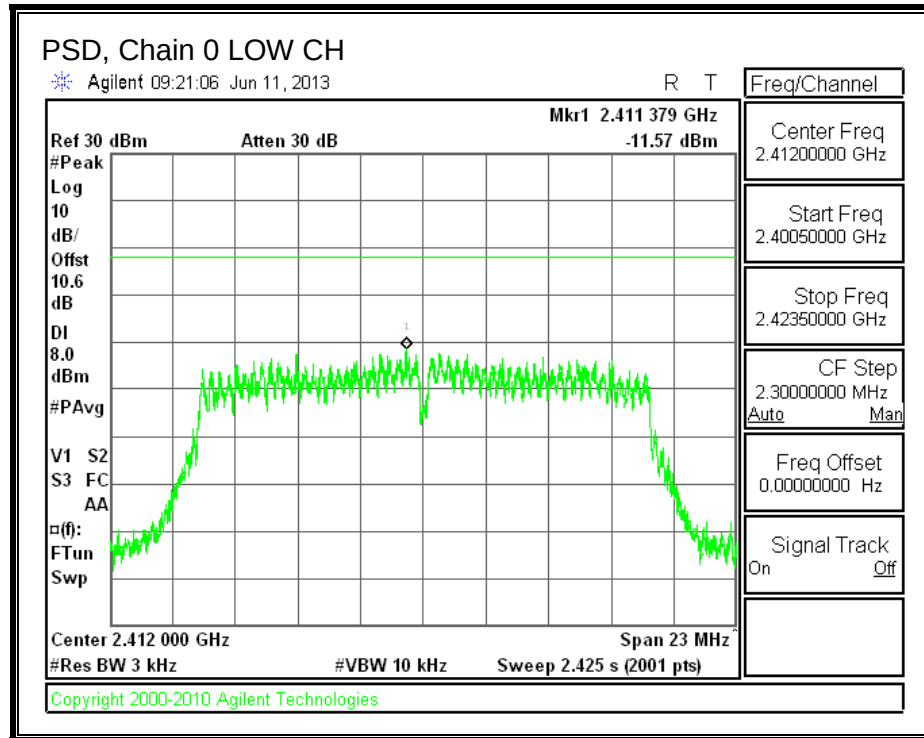
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

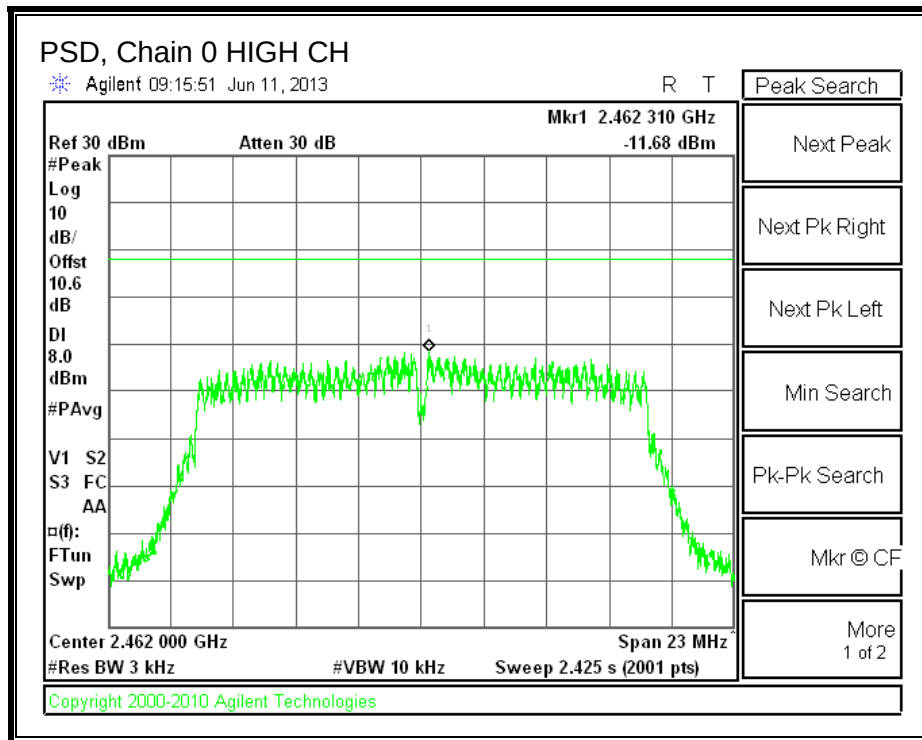
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-11.57	8.0	-19.6
Mid	2437	-11.52	8.0	-19.5
High	2462	-11.68	8.0	-19.7

PSD, Chain 0





9.2.6. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

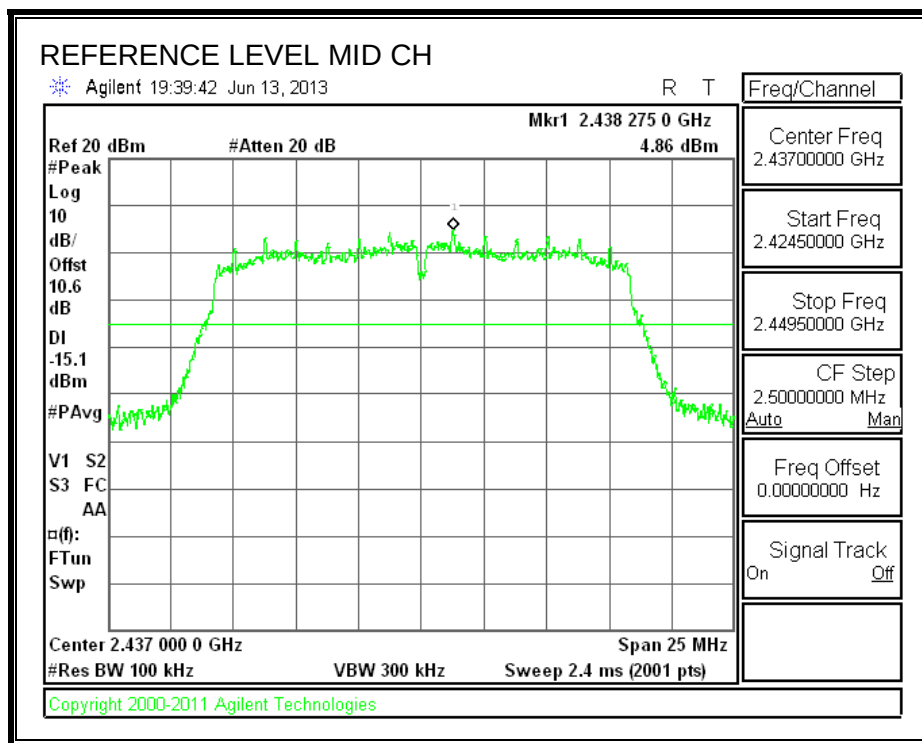
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

TEST PROCEDURE

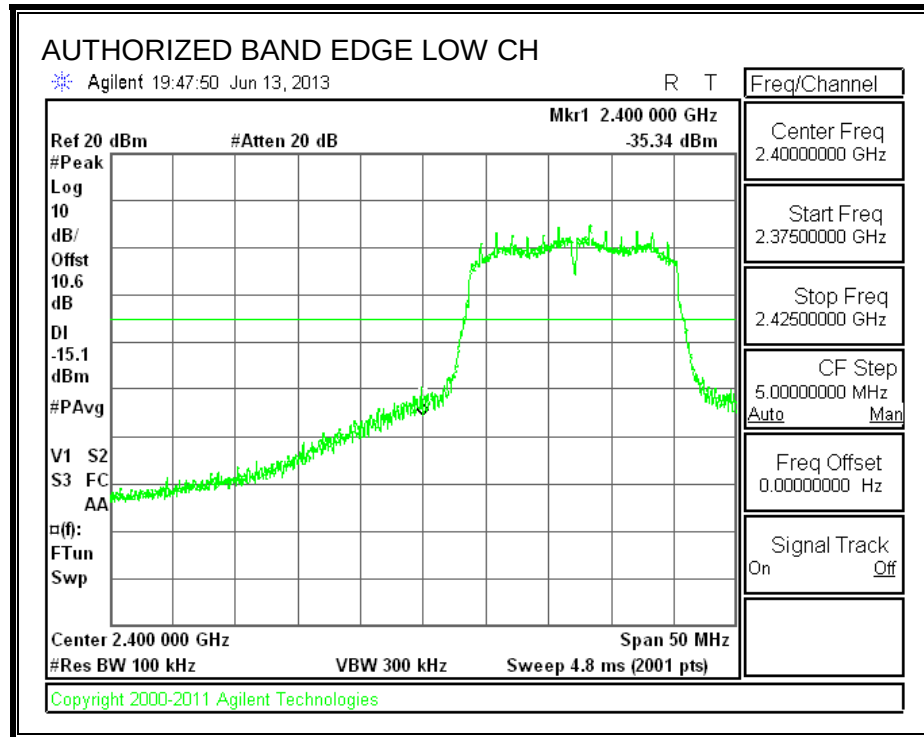
The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

RESULTS

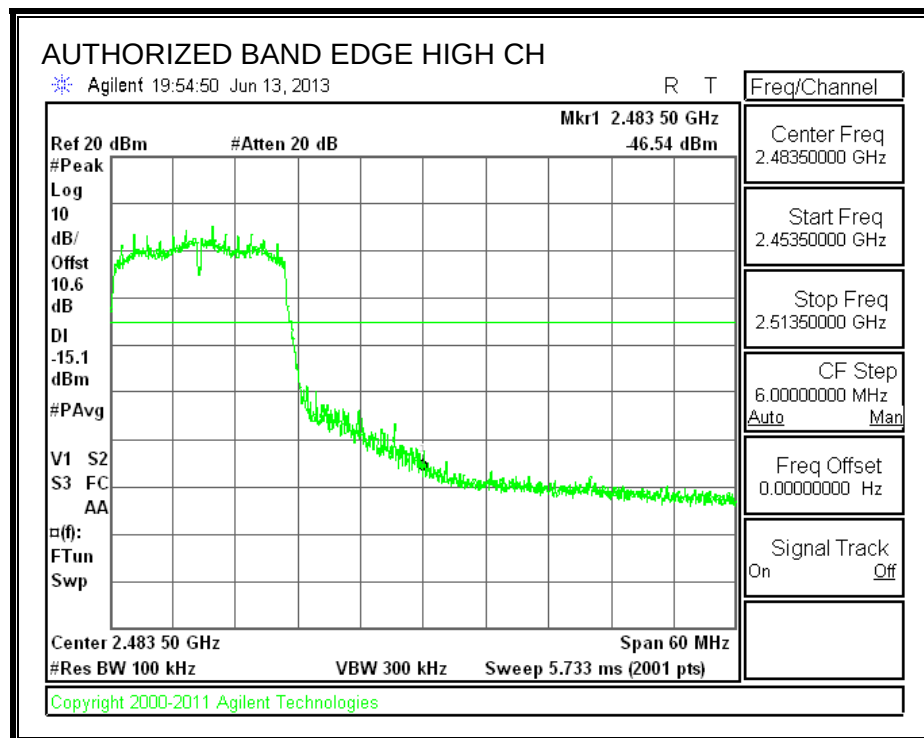
IN-BAND REFERENCE LEVEL



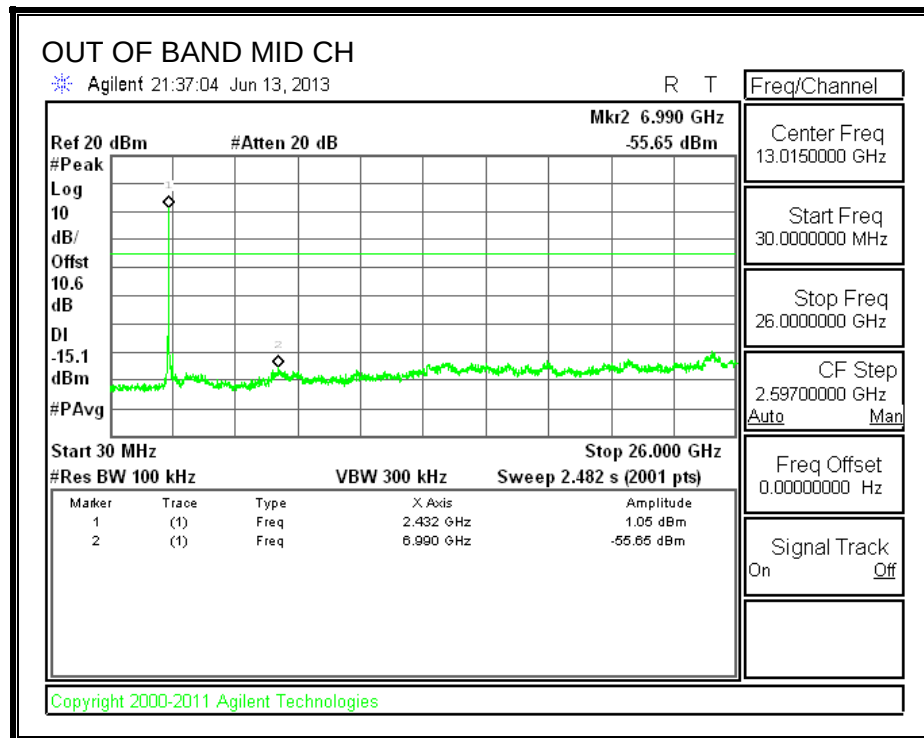
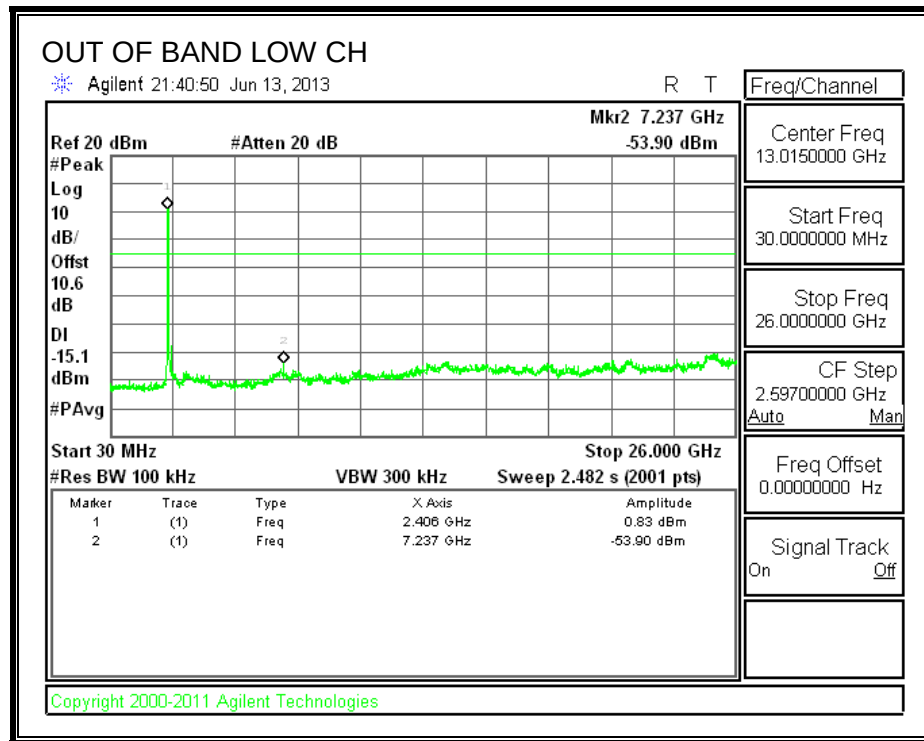
LOW CHANNEL BANDEDGE

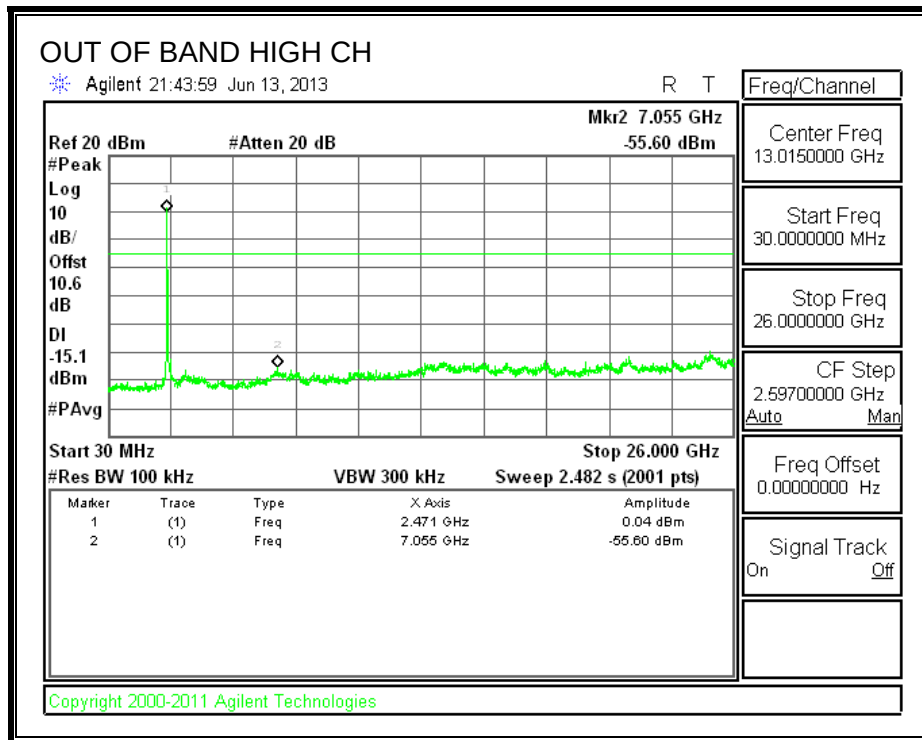


HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS





9.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

9.3.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-210 A8.2 (a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

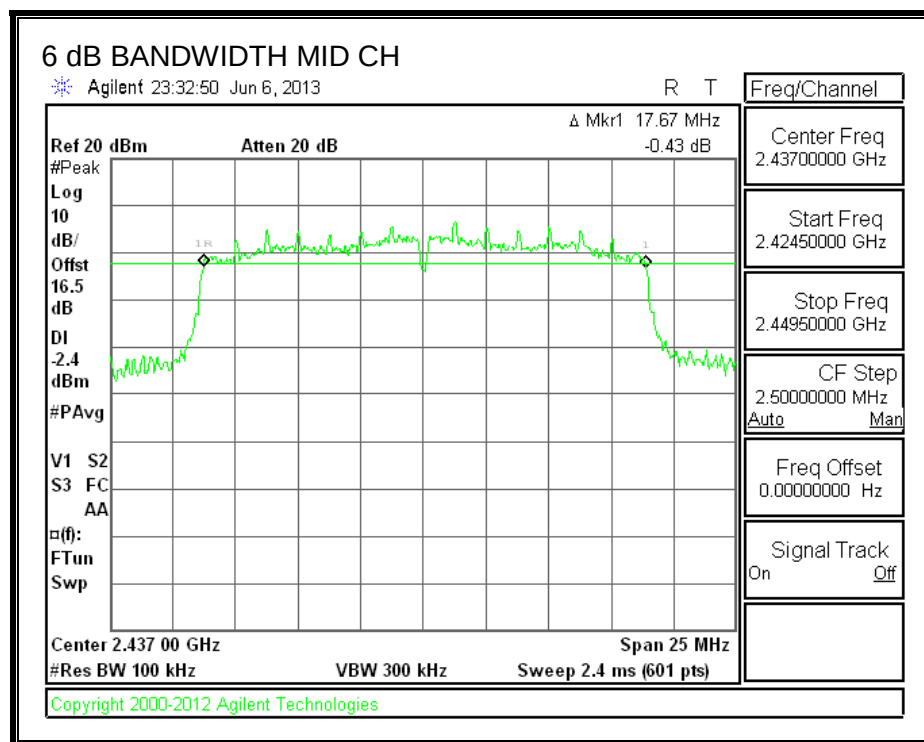
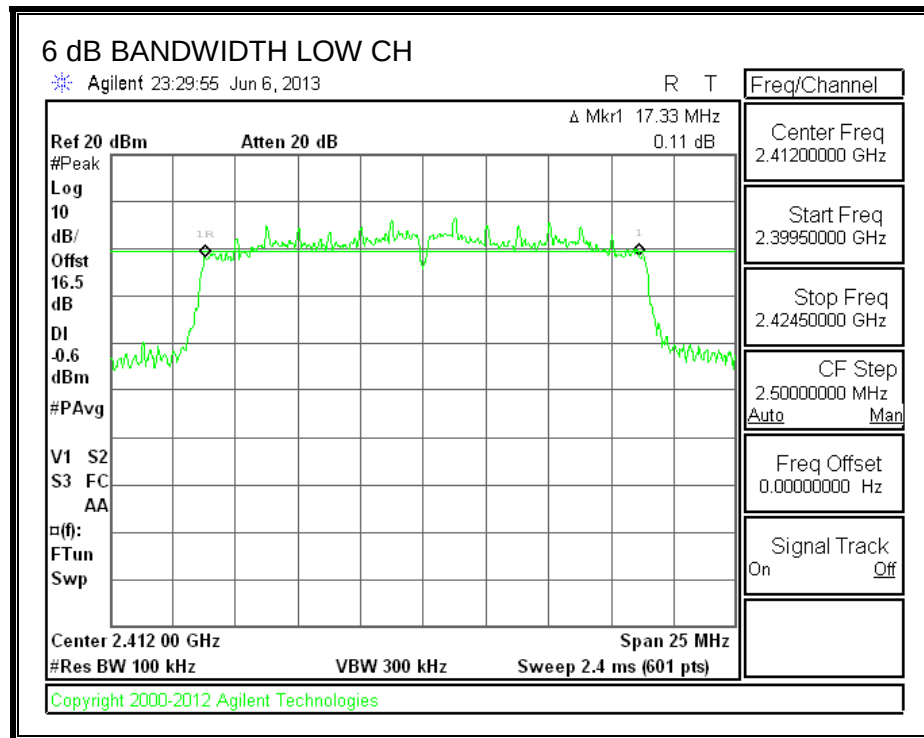
TEST PROCEDURE

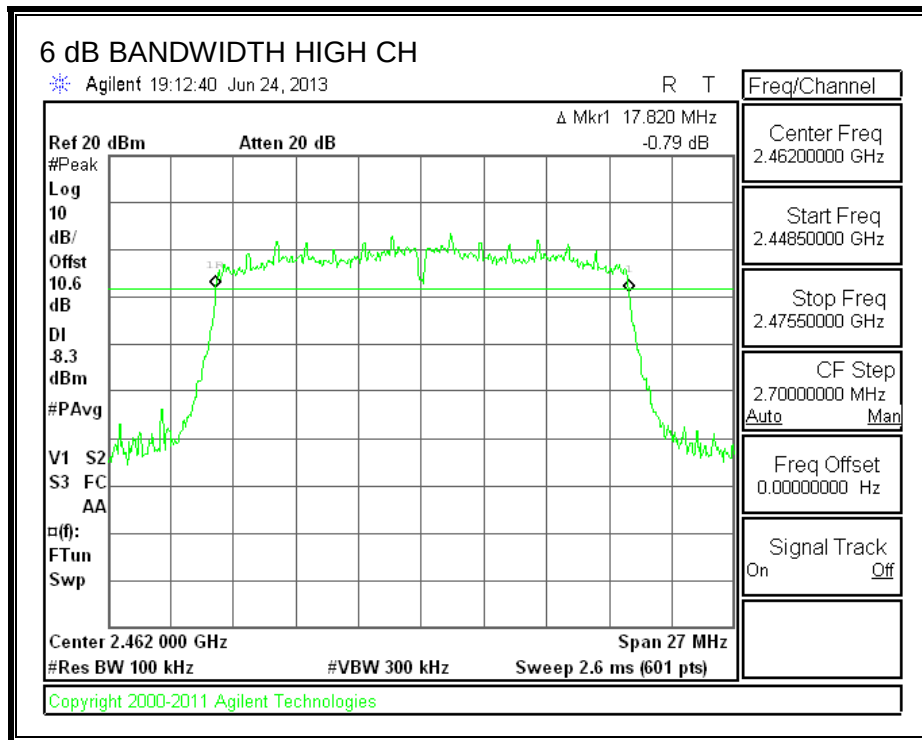
The transmitter output is connected to a spectrum analyzer with the RBW set between 1% and 5% of the EBW, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	17.330	0.5
Mid	2437	17.670	0.5
High	2462	17.820	0.5

6 dB BANDWIDTH





9.3.2. 99% BANDWIDTH

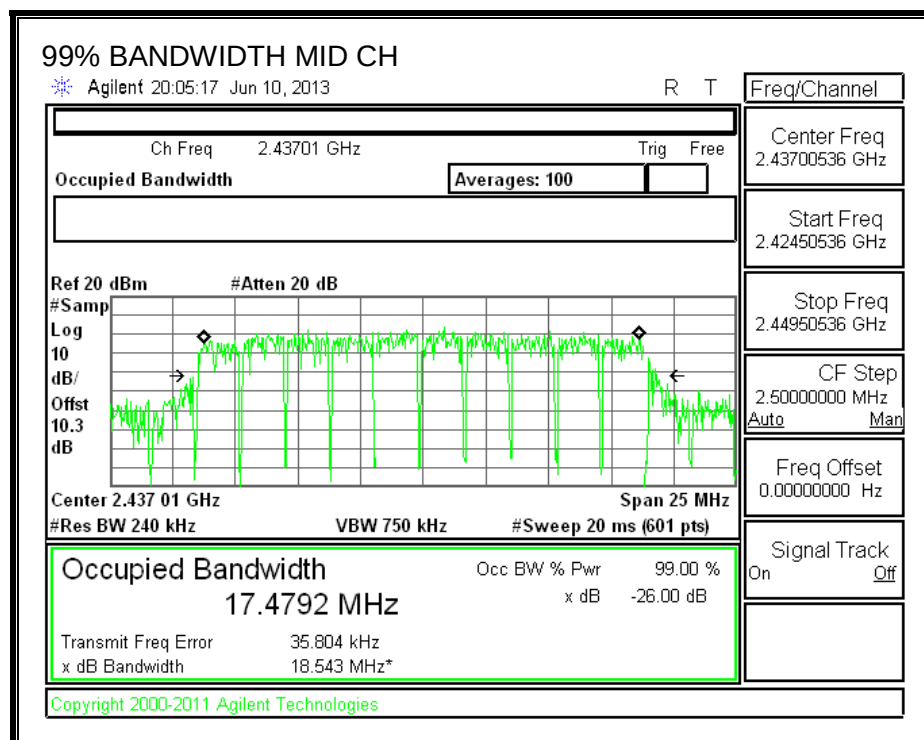
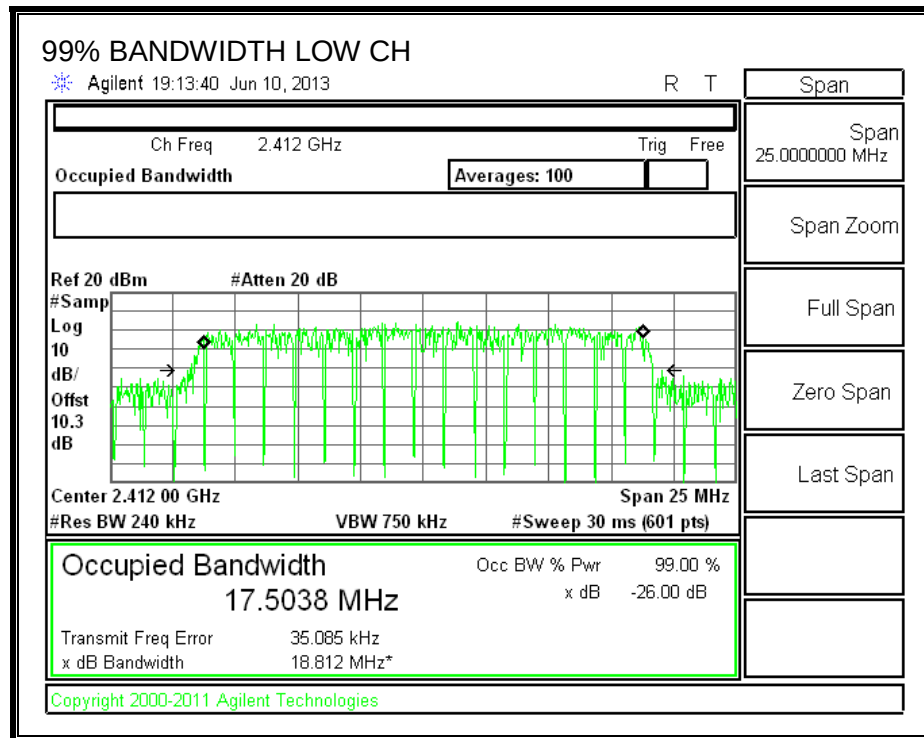
LIMITS

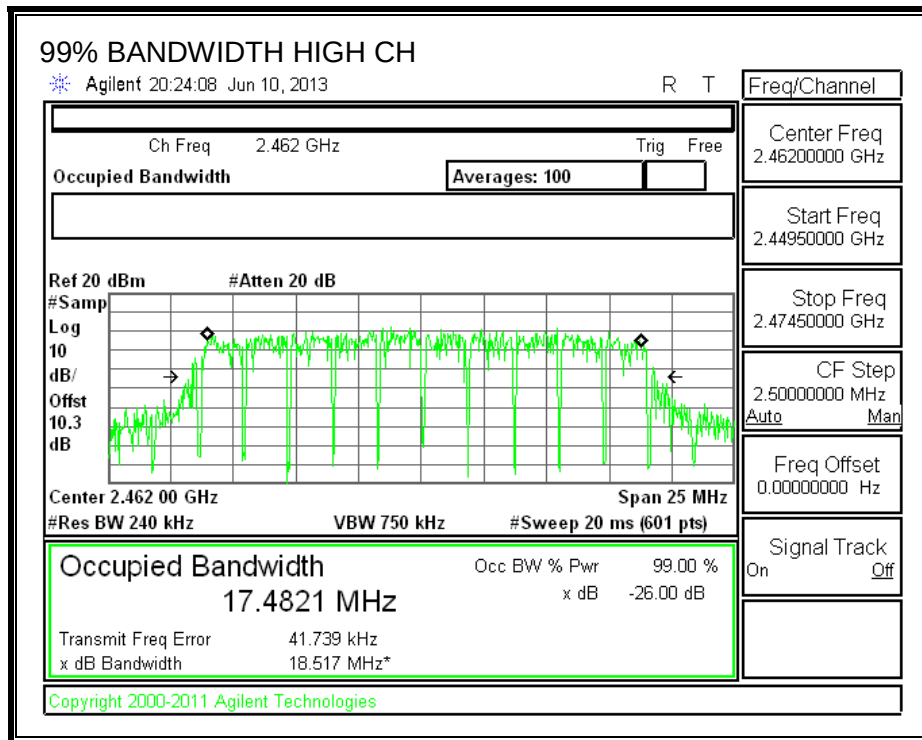
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.5038
Mid	2437	17.4792
High	2462	17.4821

99% BANDWIDTH





9.3.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10 dB (including 10 dB pad and .7 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
Low	2412	12.36
Mid	2437	12.46
High	2462	12.49

9.3.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-210 A8.4

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

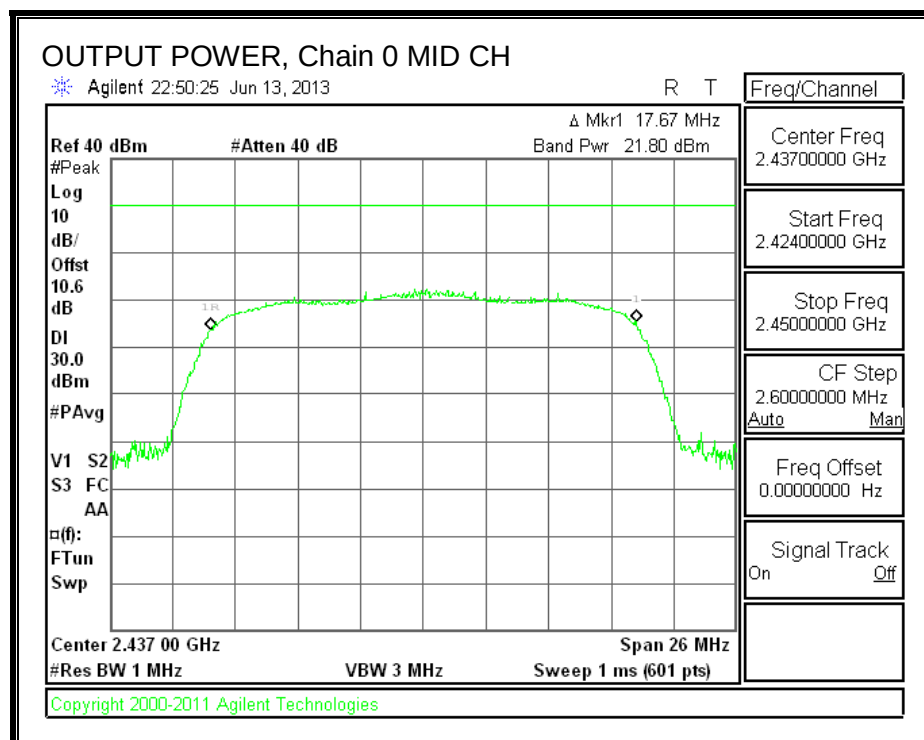
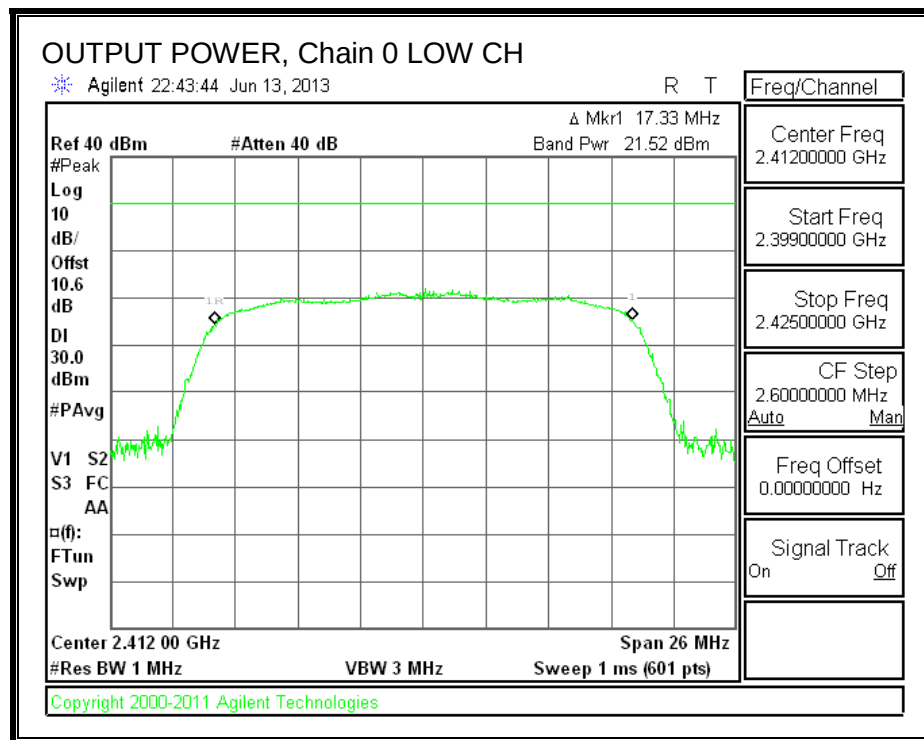
Limits

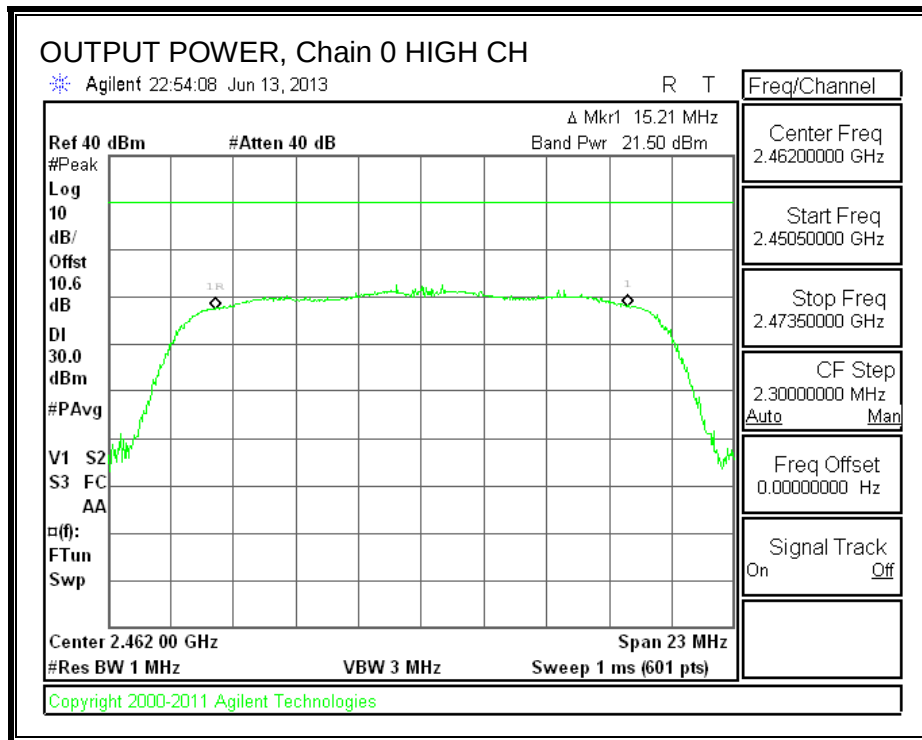
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	5.93	30.00	30	36	30.00
Mid	2437	5.93	30.00	30	36	30.00
High	2462	5.93	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	21.52	21.52	30.00	-8.48
Mid	2437	21.80	21.80	30.00	-8.20
High	2462	21.50	21.50	30.00	-8.50

OUTPUT POWER, Chain 0





9.3.5. PSD

LIMITS

FCC §15.247

IC RSS-210 A8.2

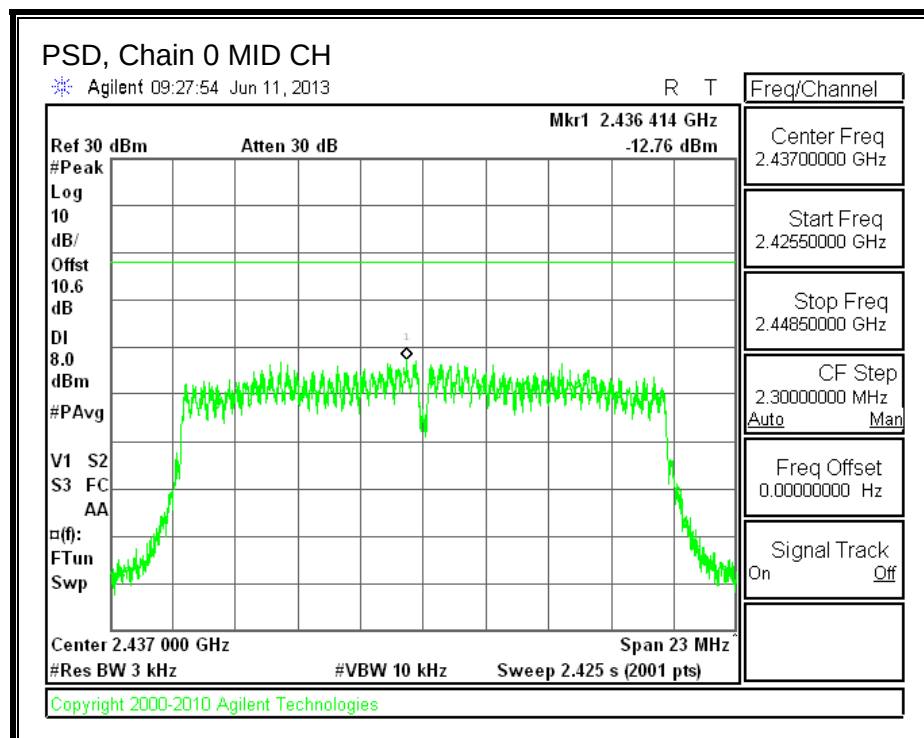
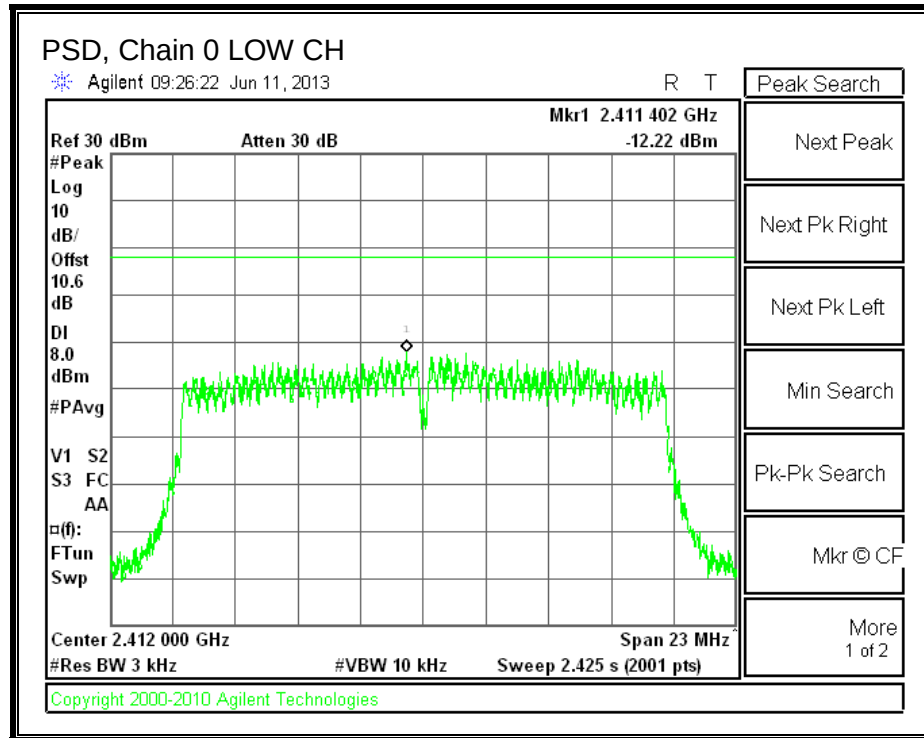
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

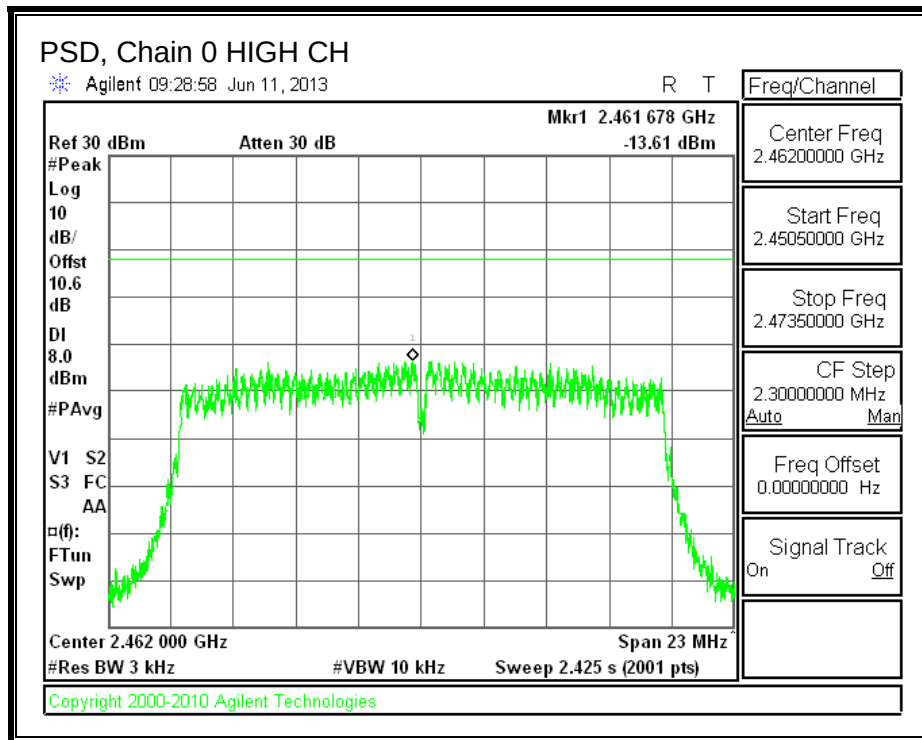
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-12.22	8.0	-20.2
Mid	2437	-12.76	8.0	-20.8
High	2462	-13.61	8.0	-21.6

PSD, Chain 0





9.3.6. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

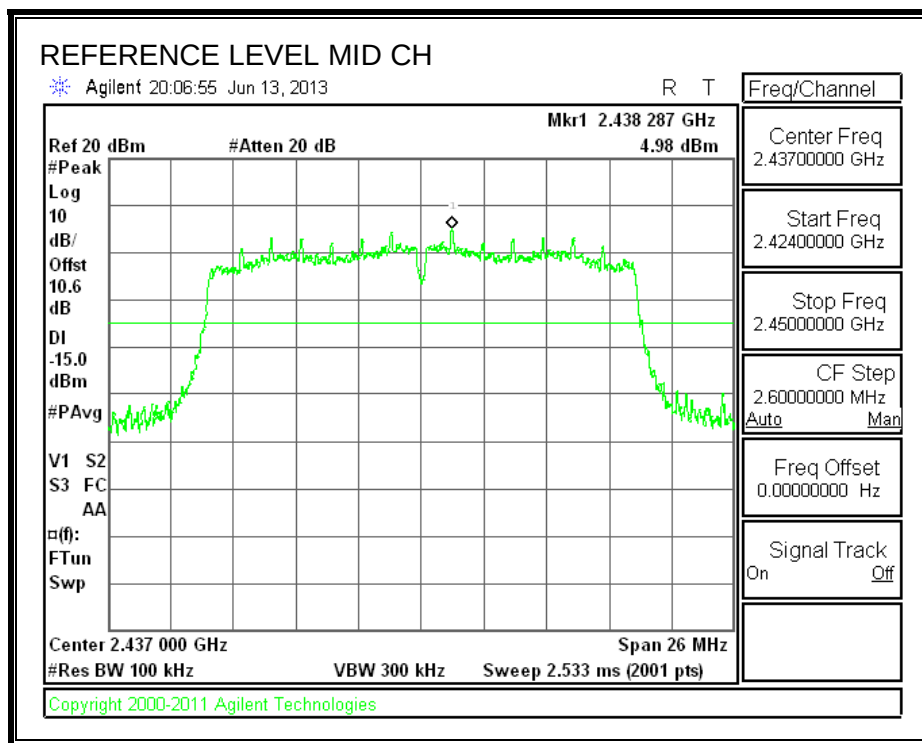
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

TEST PROCEDURE

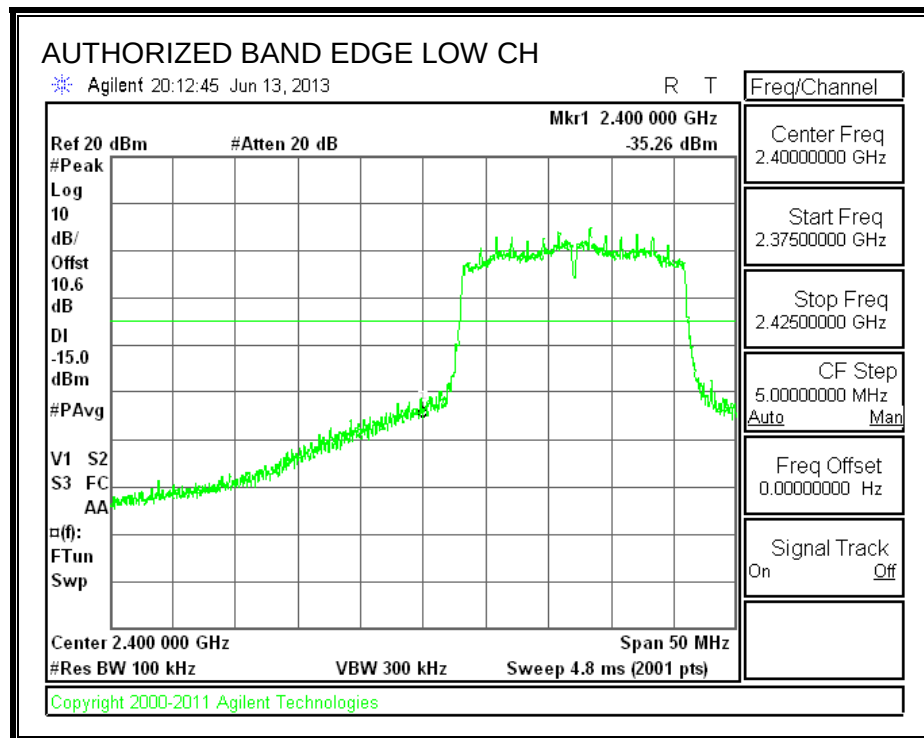
The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

RESULTS

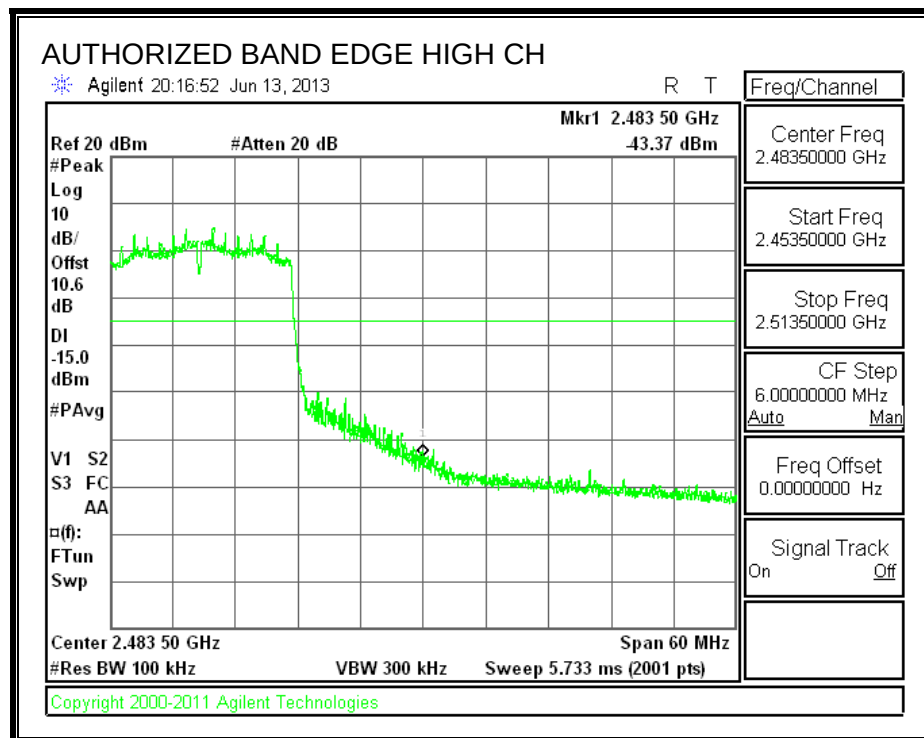
IN-BAND REFERENCE LEVEL



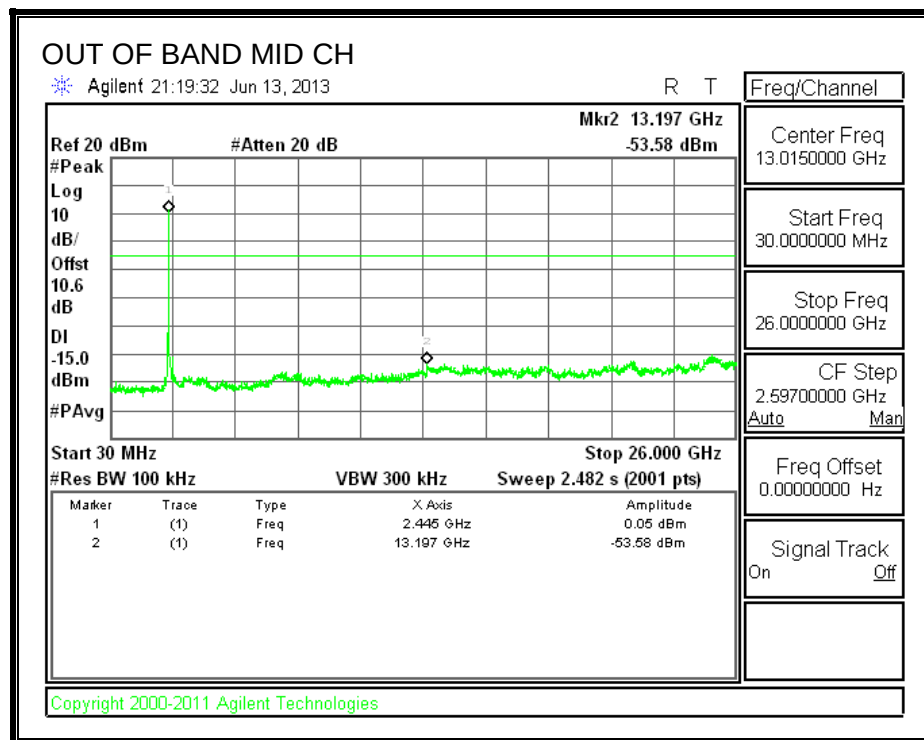
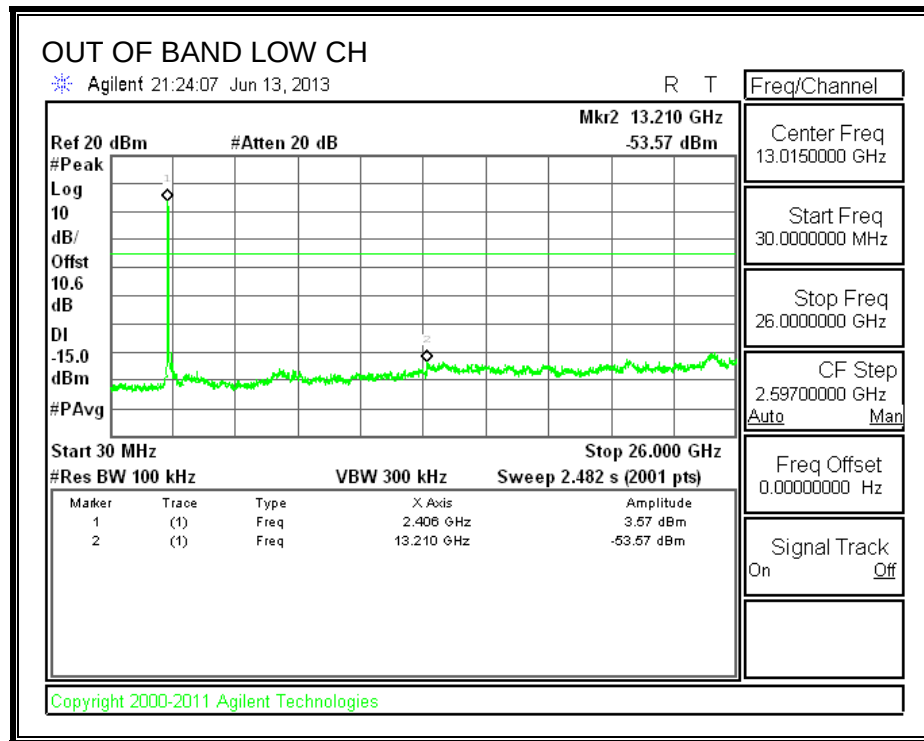
LOW CHANNEL BANDEDGE

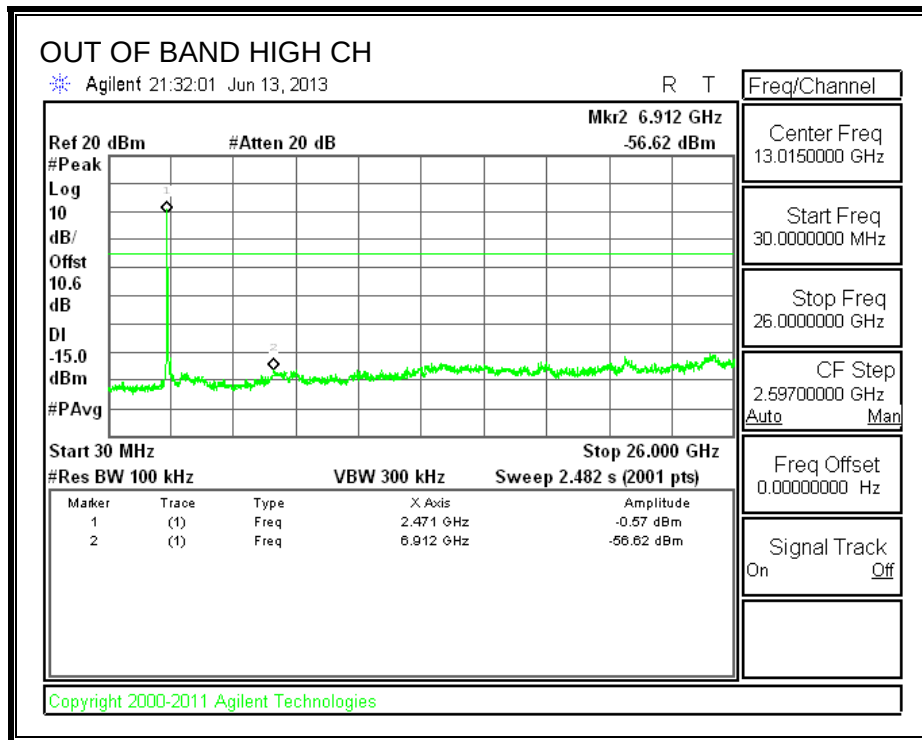


HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS





10. RADIATED TEST RESULTS

10.1. 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.

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.

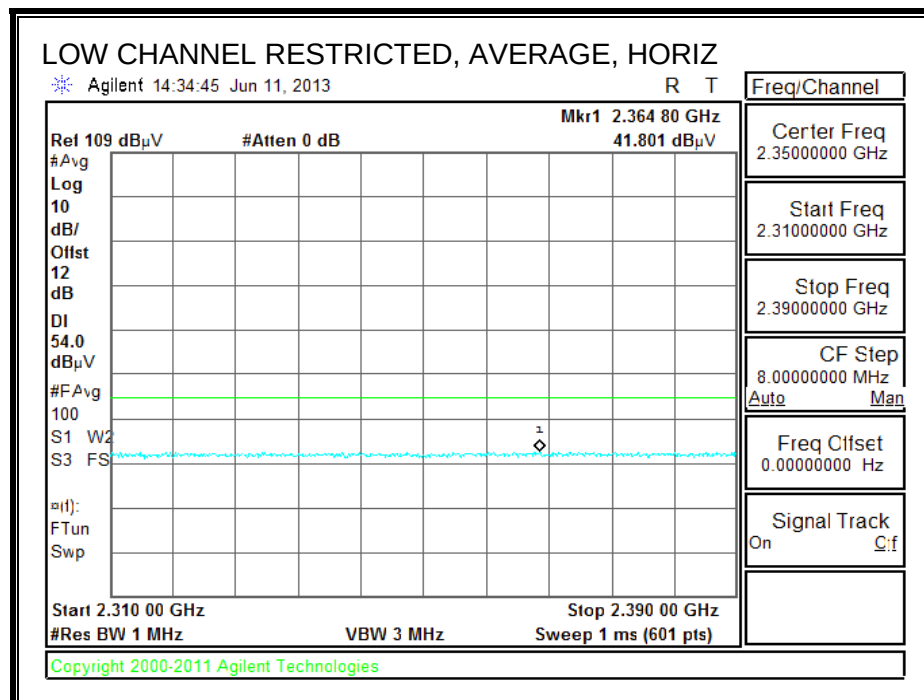
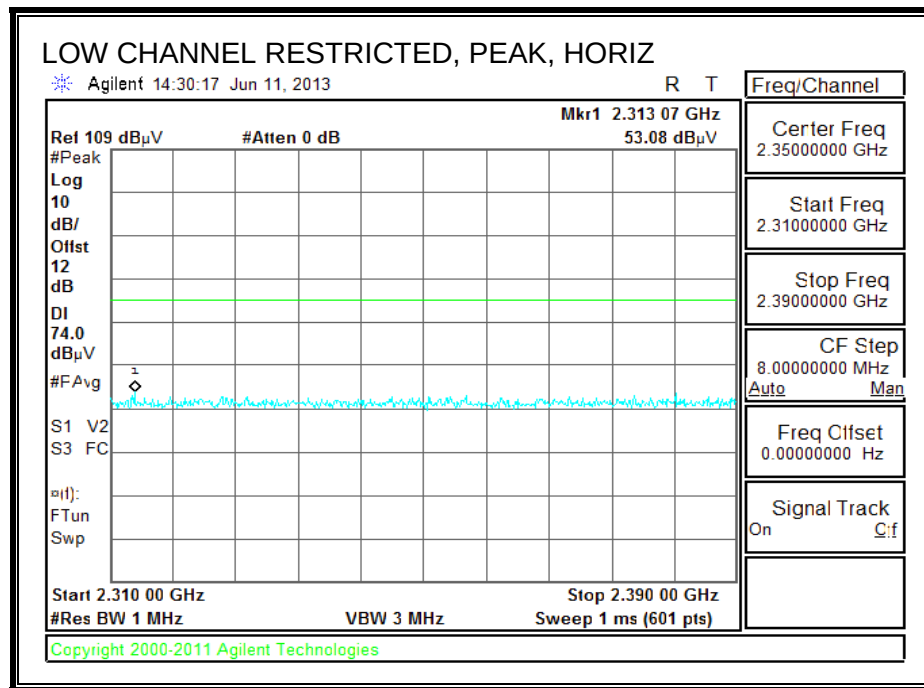
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.

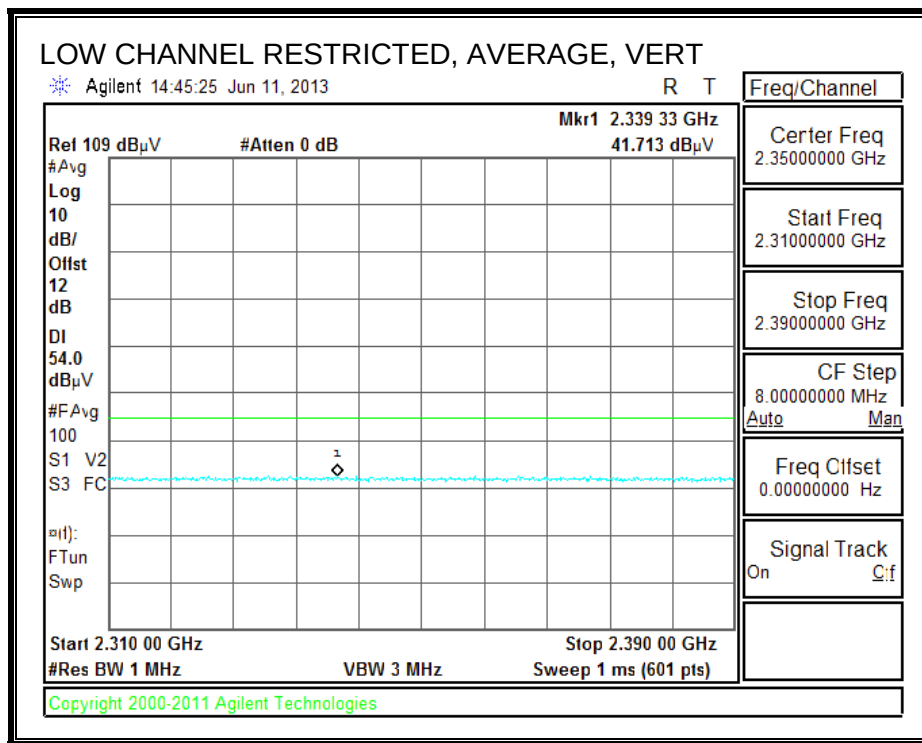
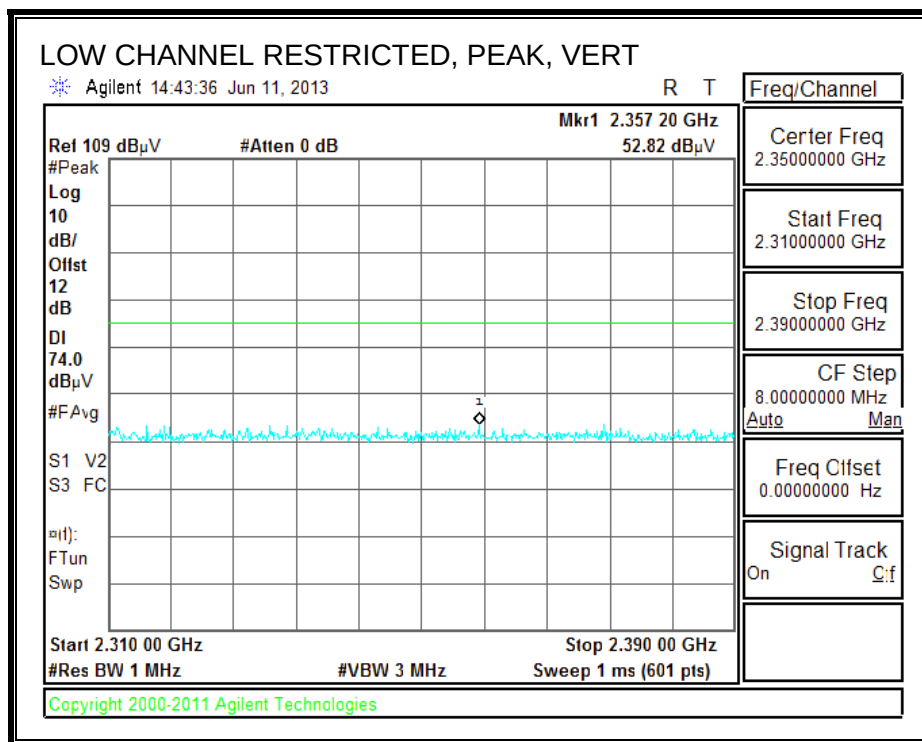
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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.

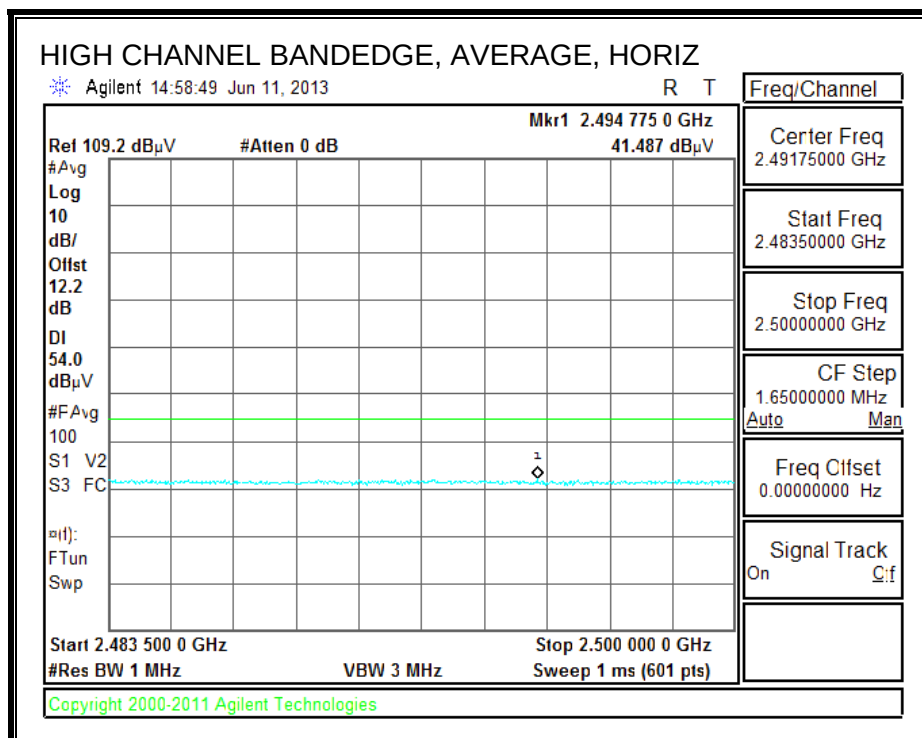
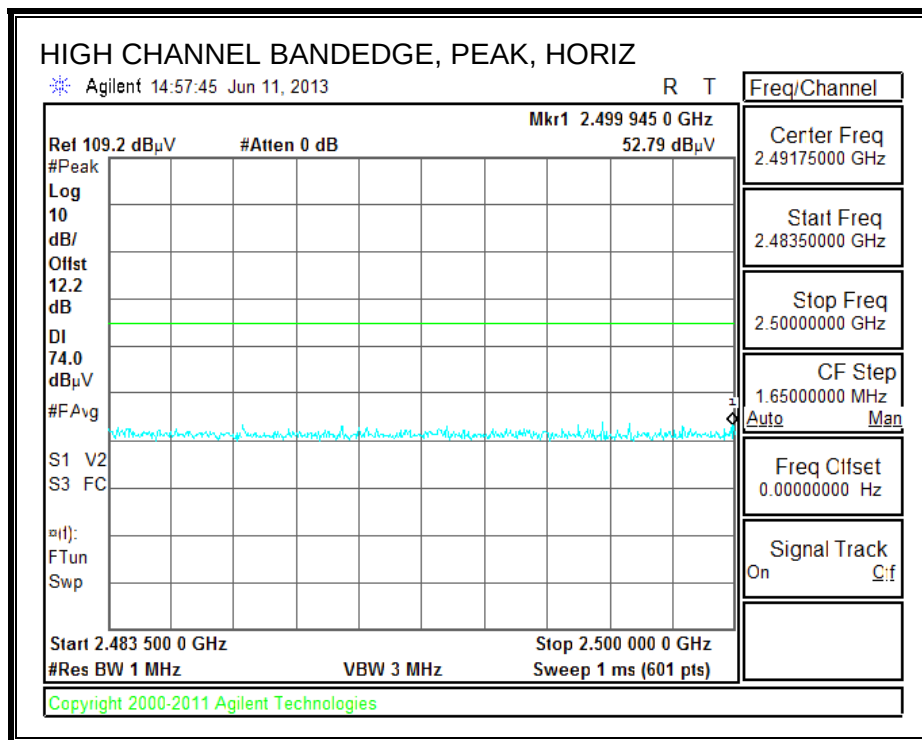
10.2. TRANSMITTER ABOVE 1 GHz

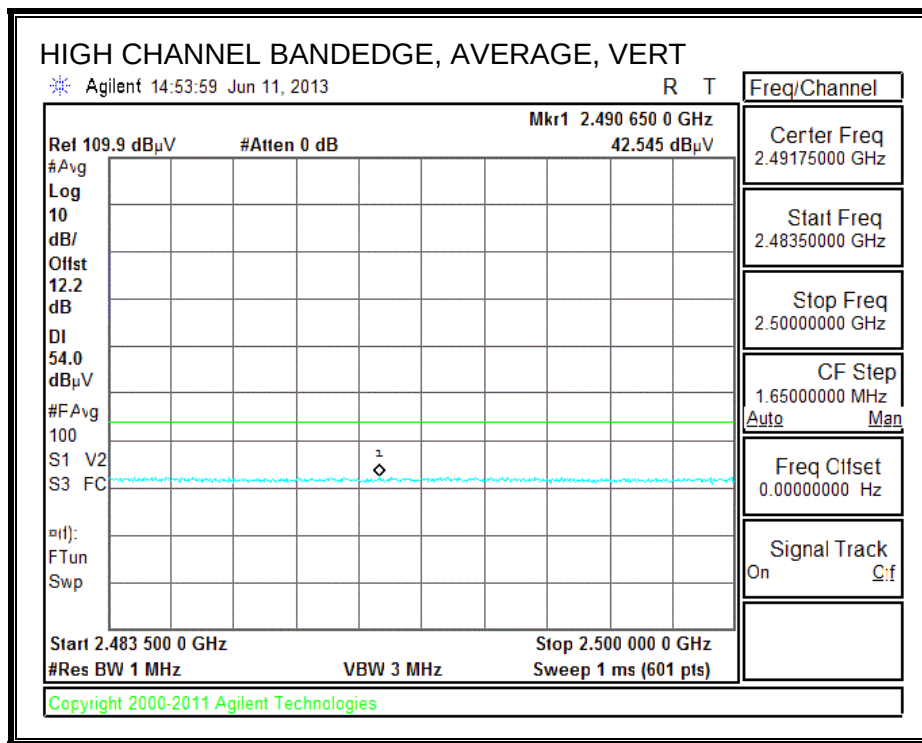
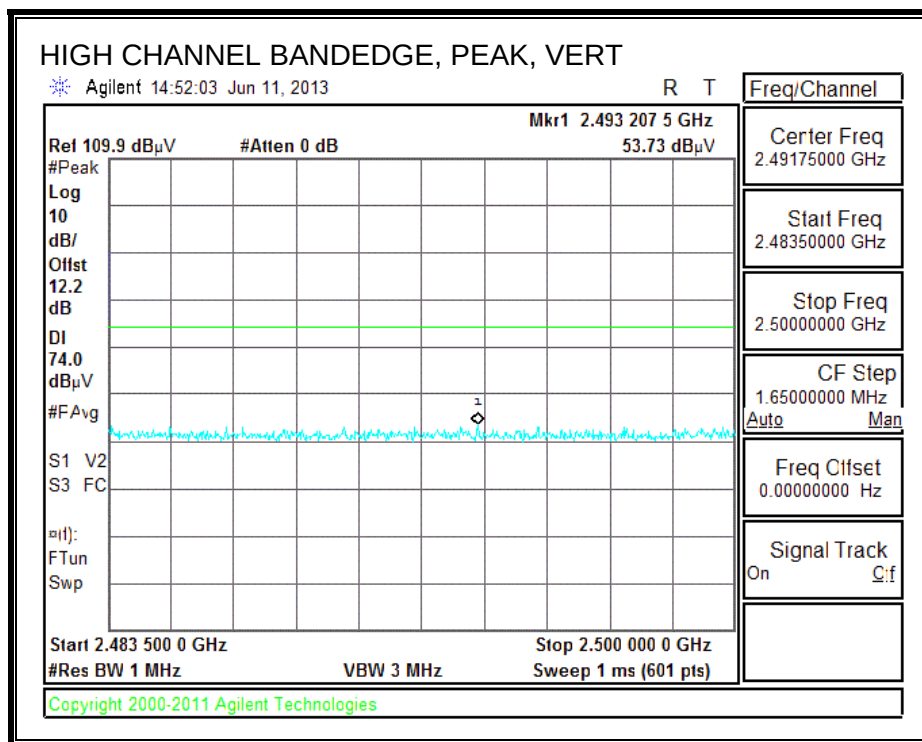
10.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)





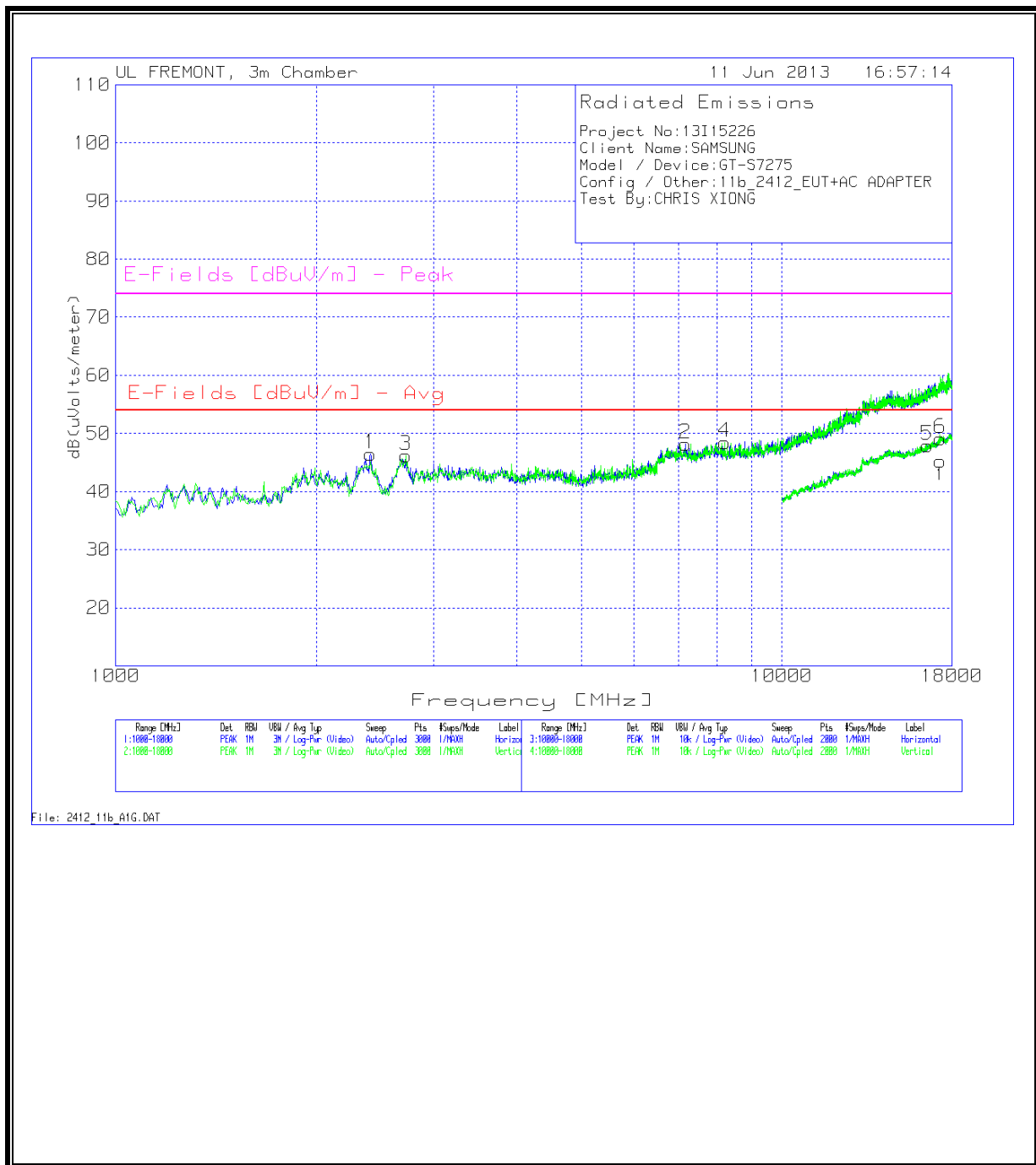
AUTHORIZED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

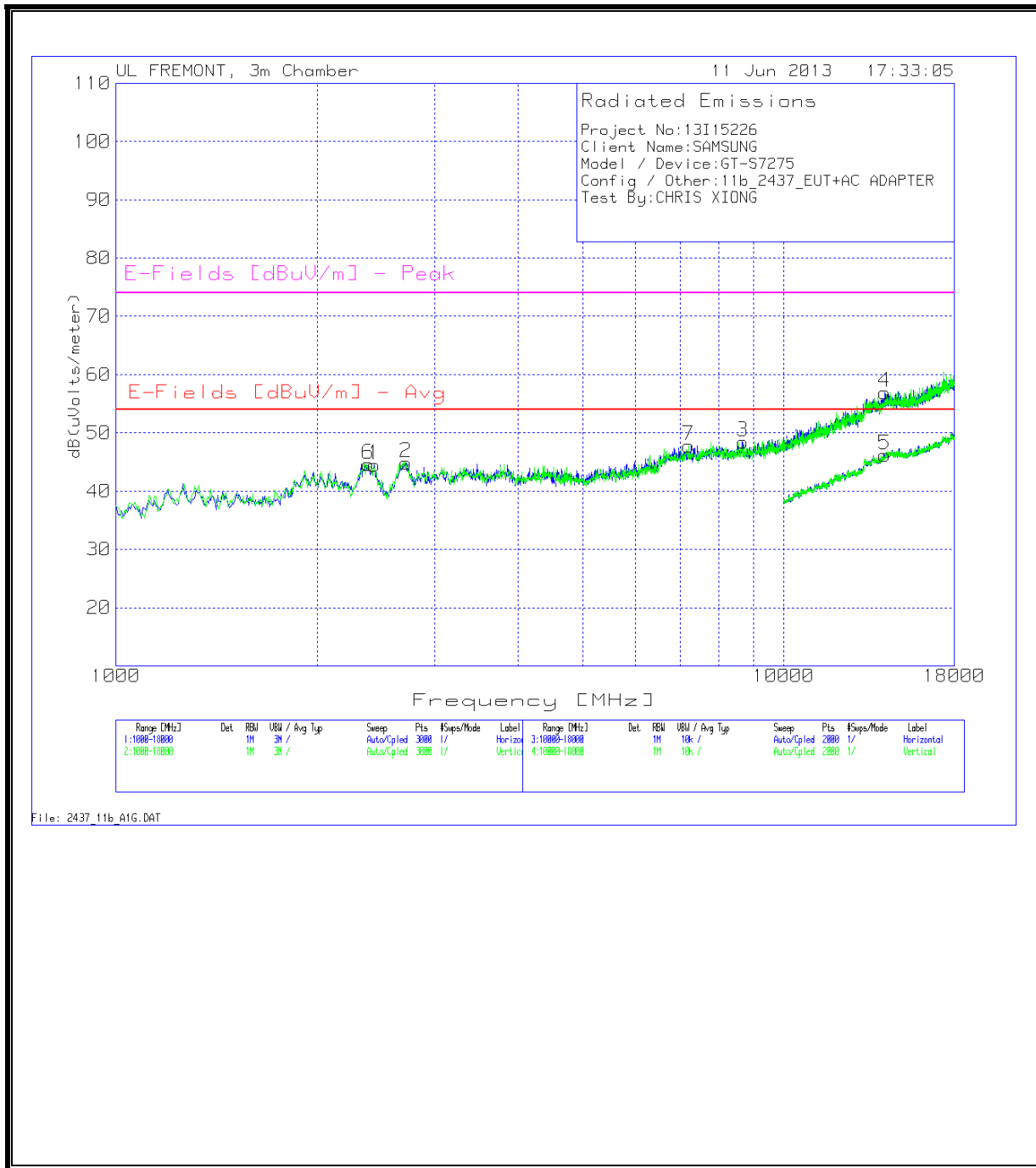
LOW CHANNEL



LOW CHANNEL

Project No:13I15226													
Client Name:SAMSUNG													
Model / Device:GT-S7275													
Config / Other:11b_2412_EUT+AC ADAPTER													
Test By:CHRIS XIONG													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] Avg	Margin (dB)	E-Fields [dBuV/m] Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz													
*1	2410.06	43.13	PK	32.1	-29.7	0.9	46.43	53.97	-7.54	74	-27.57	100	Horz
2	7166.889	35.41	PK	35.6	-23.1	0.3	48.21	53.97	-5.76	74	-25.79	100	Horz
Vertical 1000 - 18000MHz													
*3	2727.182	41.68	PK	32.6	-29	0.9	46.18	53.97	-7.79	74	-27.82	201	Vert
4	8214.524	34.54	PK	35.8	-22.2	0.3	48.44	53.97	-5.53	74	-25.56	99	Vert
Horizontal 10000 - 18000MHz													
5	16540.73	21.99	PK	41.1	-15.6	0.4	47.89	53.97	-6.08	74	-26.11	200	Horz
Vertical 10000 - 18000MHz													
6	17292.354	21.77	PK	41.2	-14.3	0.5	49.17	53.97	-4.8	74	-24.83	201	Vert
*: Fundamental													
PK - Peak detector													

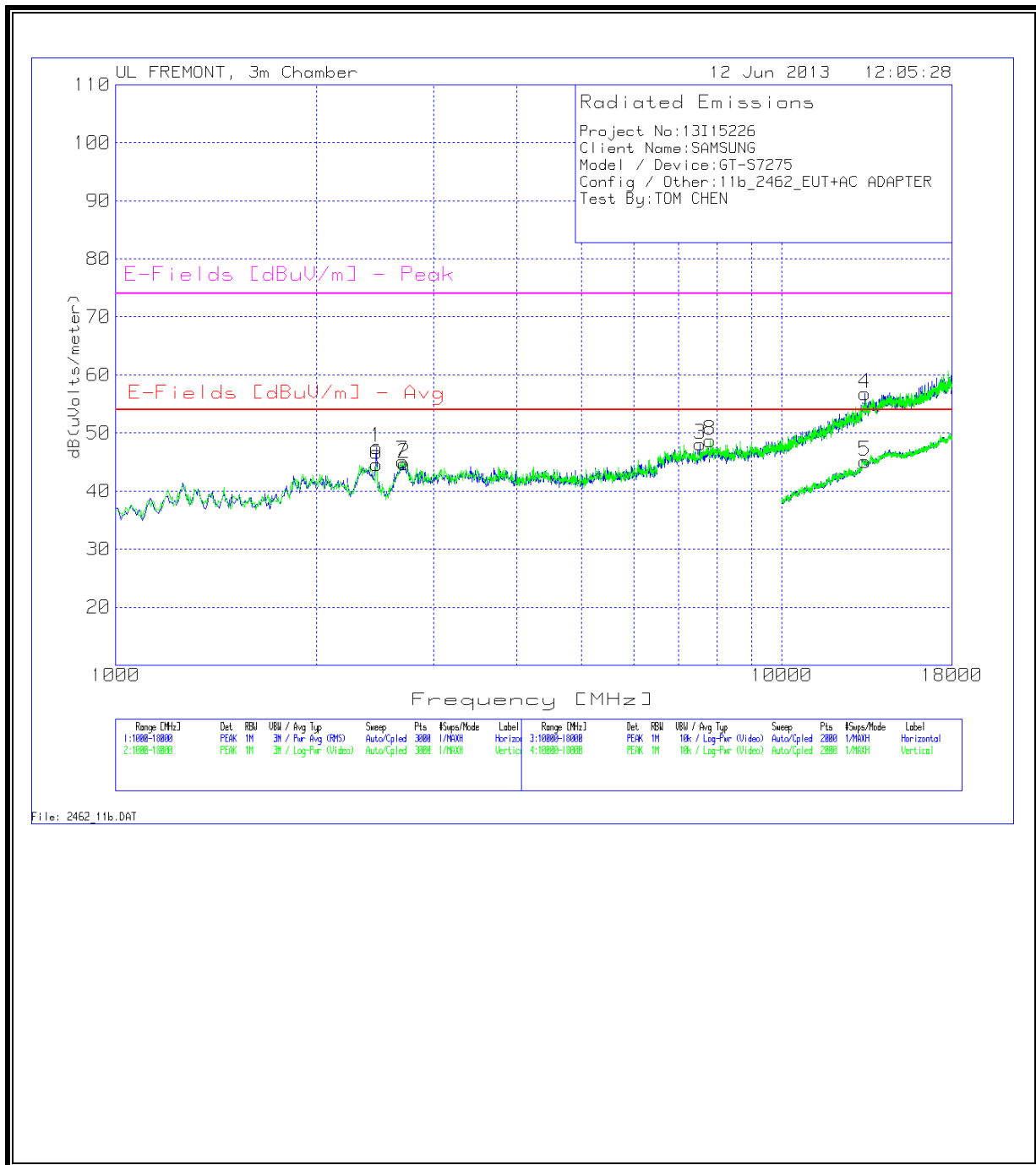
MID CHANNEL



MID CHANNEL

Project No:13I15226													
Client Name:SAMSUNG													
Model / Device:GT-S7275													
Config / Other:11b_2437_EUT+AC ADAPTER													
Test By:CHRIS XIONG													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] Avg	Margin (dB)	E-Fields [dBuV/m] Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz													
*1	2438.374	41.02	PK	32.2	-29.6	0.9	44.52	53.97	-9.45	74	-29.48	99	Horz
2	2715.856	40.35	PK	32.6	-29	0.9	44.85	53.97	-9.12	74	-29.15	201	Horz
3	8690.207	34.29	PK	35.9	-22.1	0.4	48.49	53.97	-5.48	74	-25.51	201	Horz
4	14166.223	33.24	PK	39.1	-15.8	0.4	56.94	53.97	2.97	74	-17.06	99	Horz
Vertical 1000 - 18000MHz													
*6	2387.408	41.31	PK	32.1	-29.7	0.9	44.61	53.97	-9.36	74	-29.39	99	Vert
7	7206.529	35.01	PK	35.6	-23.1	0.3	47.81	53.97	-6.16	74	-26.19	201	Vert
Horizontal 10000 - 18000MHz													
5	14173.913	22.46	PK	39.1	-15.8	0.4	46.16	53.97	-7.81	74	-27.84	100	Horz
*:Fundamental													
PK - Peak detector													

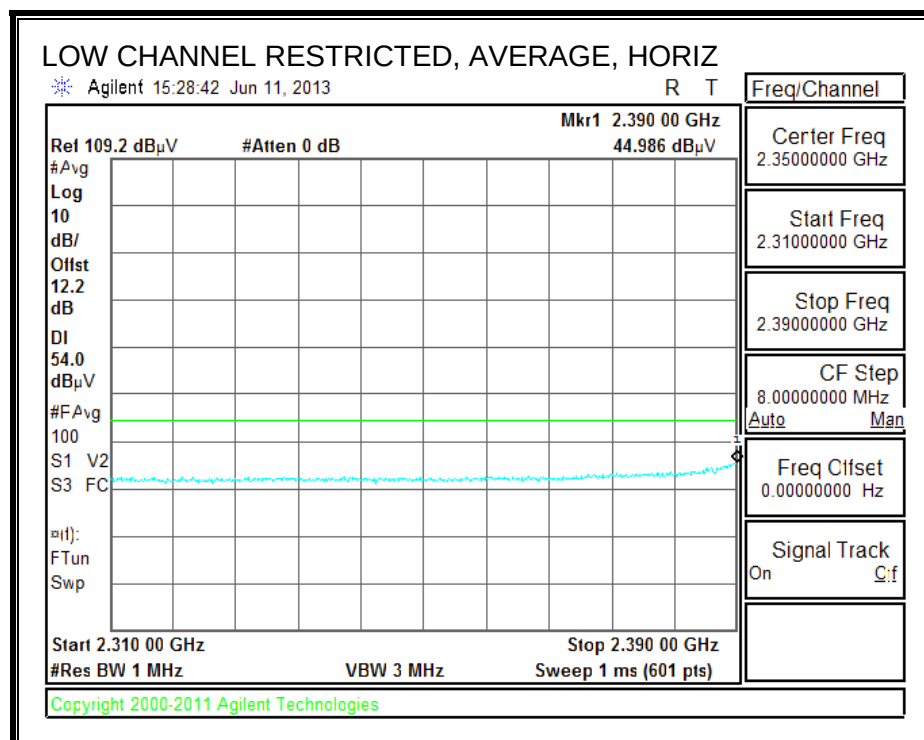
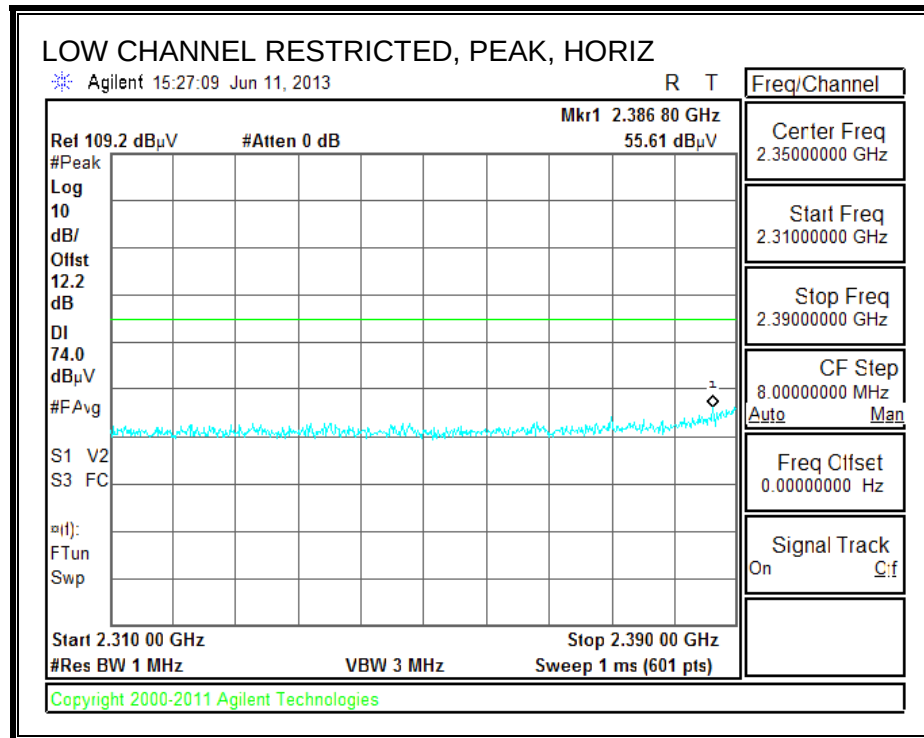
HIGH CHANNEL

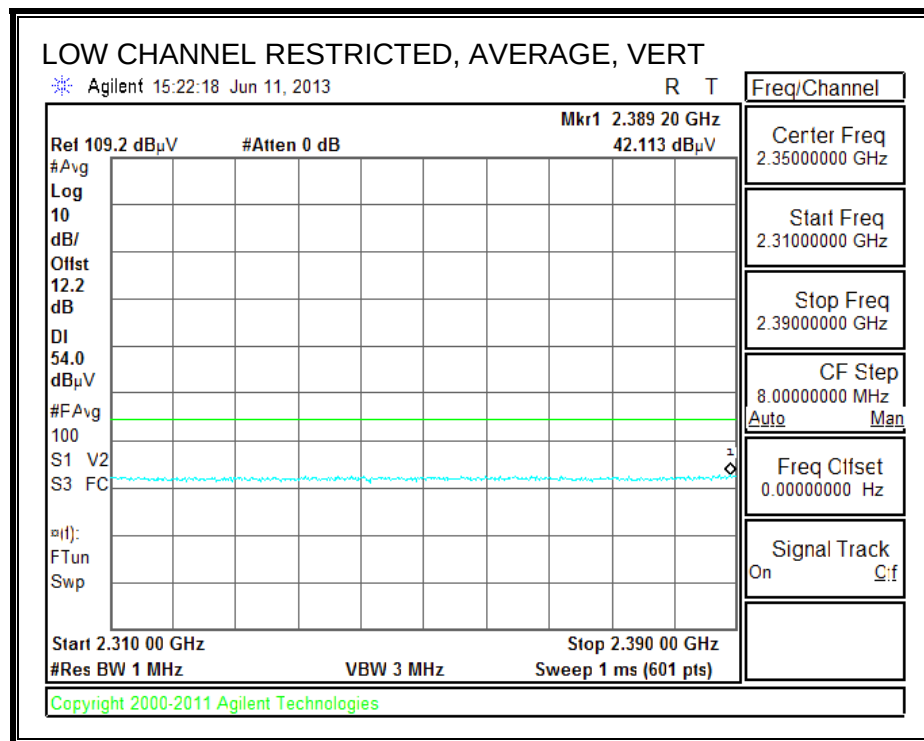
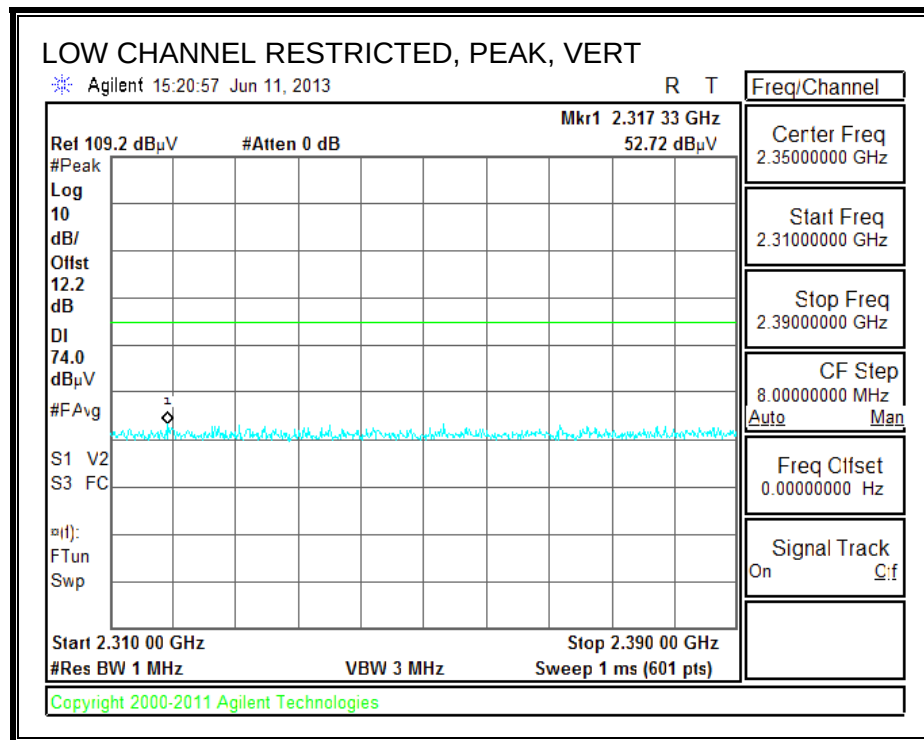


HIGH CHANNEL

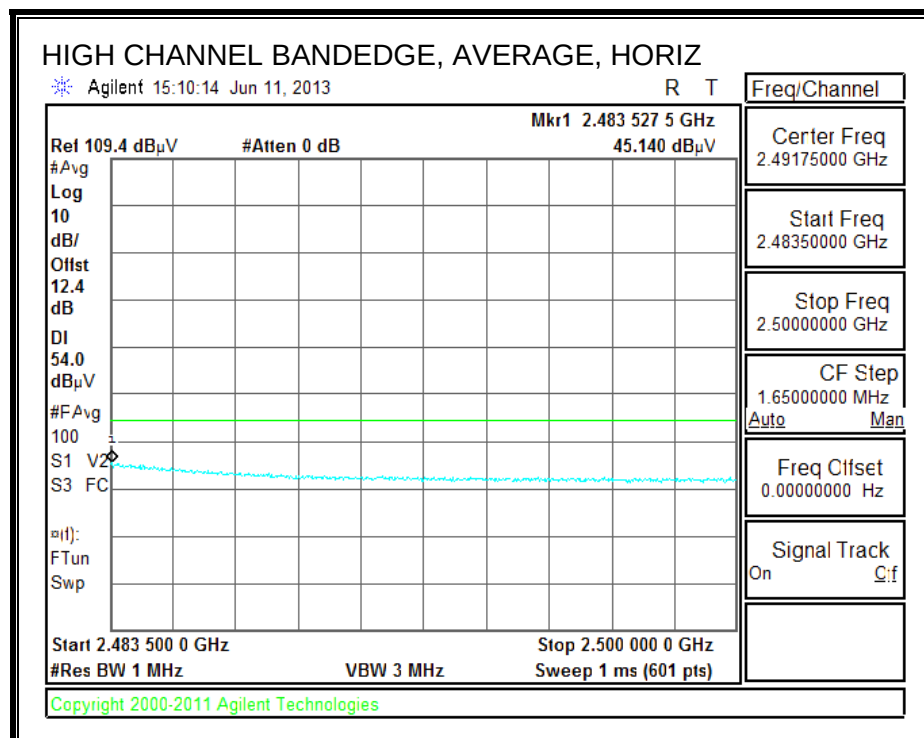
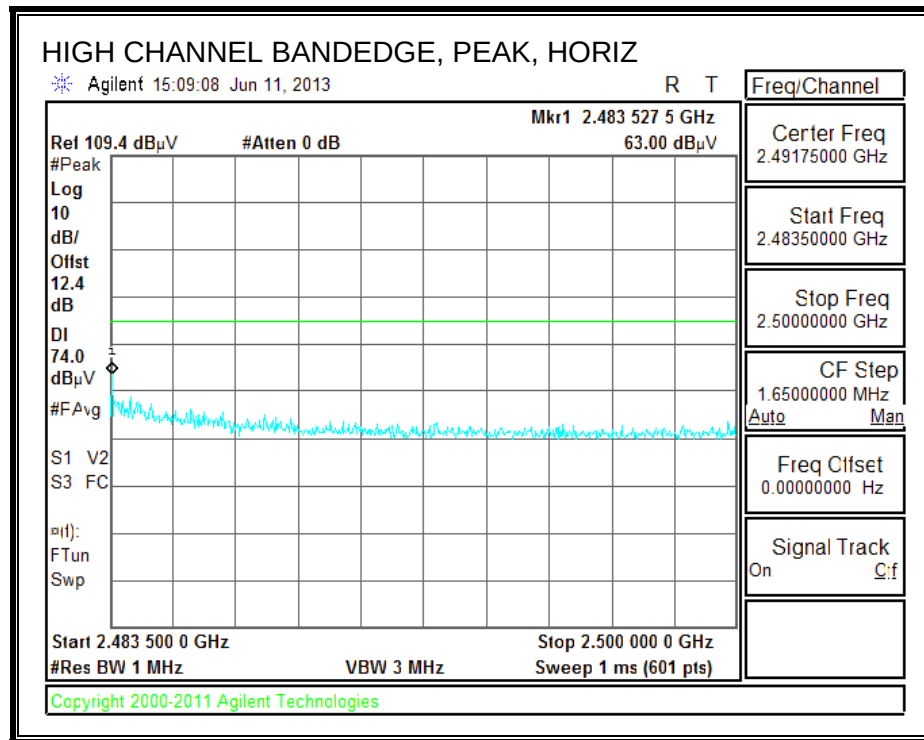
Project No:13I15226													
Client Name:SAMSUNG													
Model / Device:GT-S7275													
Config / Other:11b_2462_EUT+AC ADAPTER													
Test By:TOM CHEN													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz													
1	2461.026	44.03	PK	32.2	-29.6	0.9	47.53	53.97	-6.44	74	-26.47	100	Horz
2	2710.193	40.21	PK	32.6	-29	0.9	44.71	53.97	-9.26	74	-29.29	201	Horz
3	7529.314	35.02	PK	35.7	-22.9	0.3	48.12	53.97	-5.85	74	-25.88	201	Horz
4	13322.452	34.02	PK	39.2	-16.7	0.3	56.82	53.97	2.85	74	-17.18	100	Horz
Vertical 1000 - 18000MHz													
6	2461.026	41.09	PK	32.2	-29.6	0.9	44.59	53.97	-9.38	74	-29.41	99	Vert
7	2693.205	40.66	PK	32.6	-29	0.9	45.16	53.97	-8.81	74	-28.84	201	Vert
8	7806.795	35.33	PK	35.8	-22.7	0.3	48.73	53.97	-5.24	74	-25.27	201	Vert
Horizontal 10000 - 18000MHz													
5	13326.337	22.37	PK	39.2	-16.7	0.3	45.17	53.97	-8.8	74	-28.83	99	Horz
*: Fundamental													
PK - Peak detector													

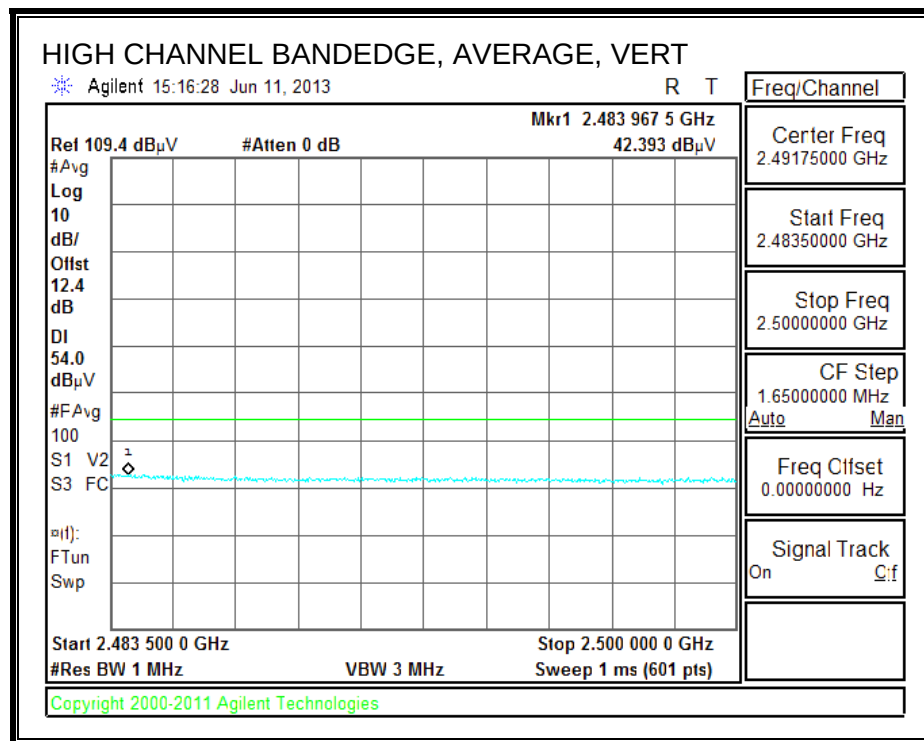
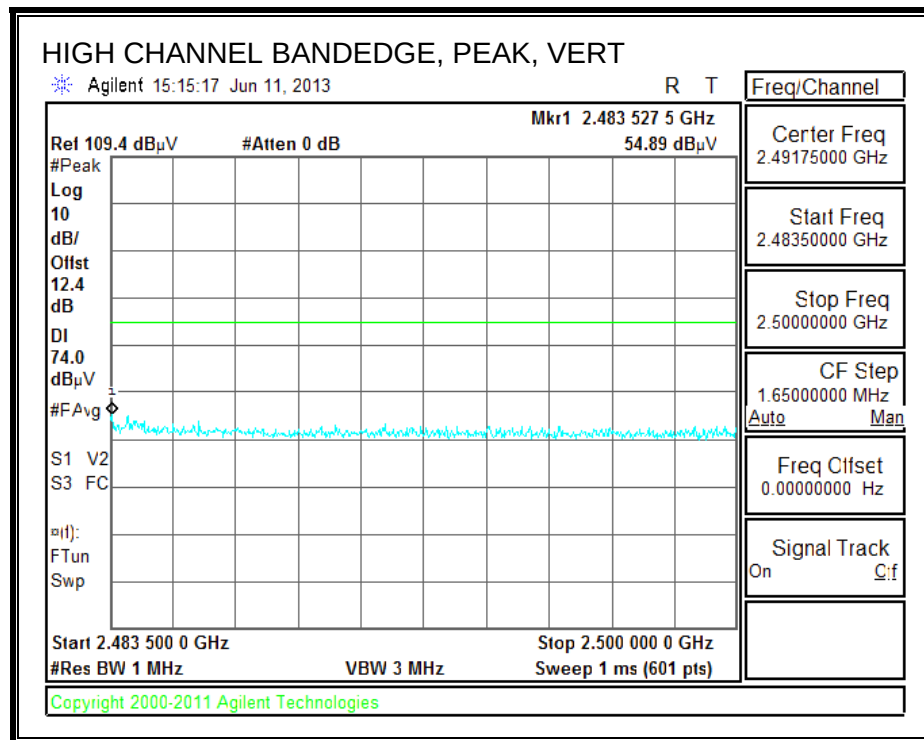
10.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)





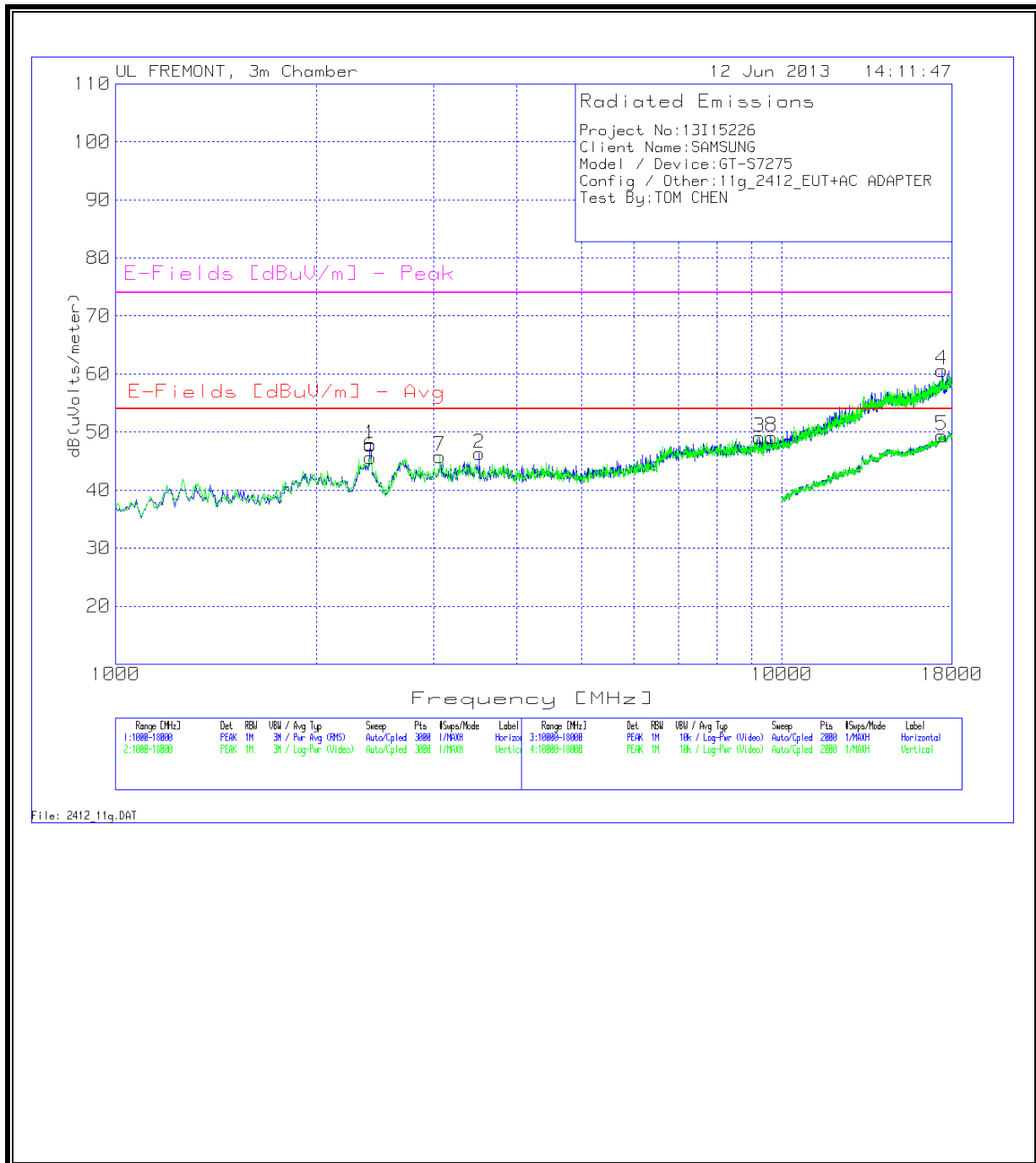
AUTHORIZED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

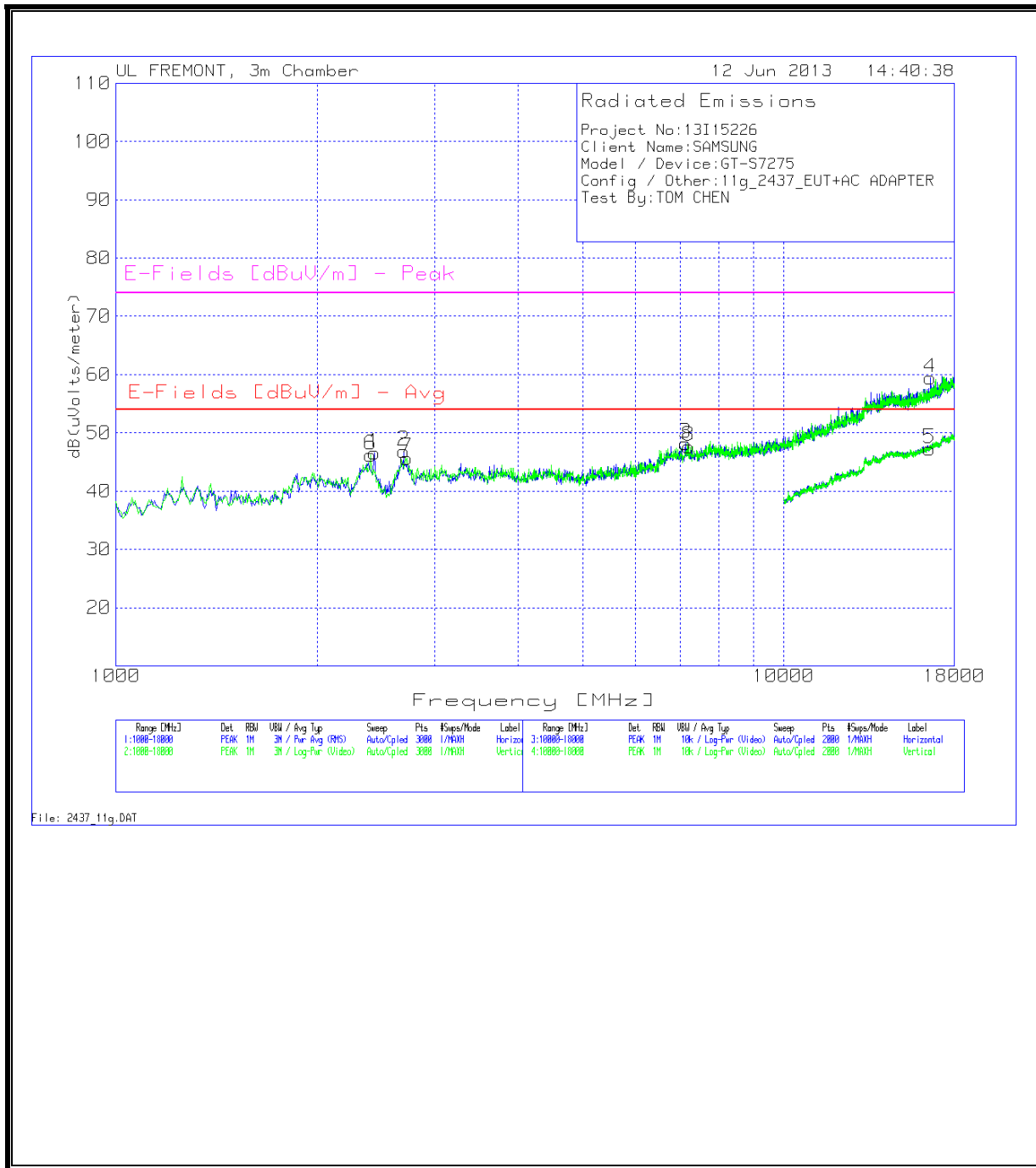
LOW CHANNEL



LOW CHANNEL

Project No:13I15226														
Client Name:SAMSUNG														
Model / Device:GT-S7275														
Config / Other:11g_2412_EUT+AC ADAPTER														
Test By:TOM CHEN														
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz														
*1	2410.06	44.56	PK	32.1	-29.7	0.9	0	47.86	53.97	-6.11	74	-26.14	99	Horz
2	3514.324	40.07	PK	33	-27.2	0.4	0	46.27	53.97	-7.7	74	-27.73	99	Horz
3	9250.833	34.26	PK	36.3	-21.9	0.4	0	49.06	53.97	-4.91	74	-24.94	99	Horz
4	17394.071	33.03	PK	41.3	-14.3	0.6	0	60.63	53.97	6.66	74	-13.37	99	Horz
Vertical 1000 - 18000MHz														
*6	2410.06	42.39	PK	32.1	-29.7	0.9	0	45.69	53.97	-8.28	74	-28.31	201	Vert
7	3066.955	40.63	PK	33	-28.4	0.6	0	45.83	53.97	-8.14	74	-28.17	201	Vert
8	9658.561	33.56	PK	36.8	-21.7	0.5	0	49.16	53.97	-4.81	74	-24.84	100	Vert
Horizontal 10000 - 18000MHz														
5	17388.306	21.84	PK	41.3	-14.3	0.6	0	49.44	53.97	-4.53	74	-24.56	201	Horz
*:Fundamental														
PK - Peak detector														

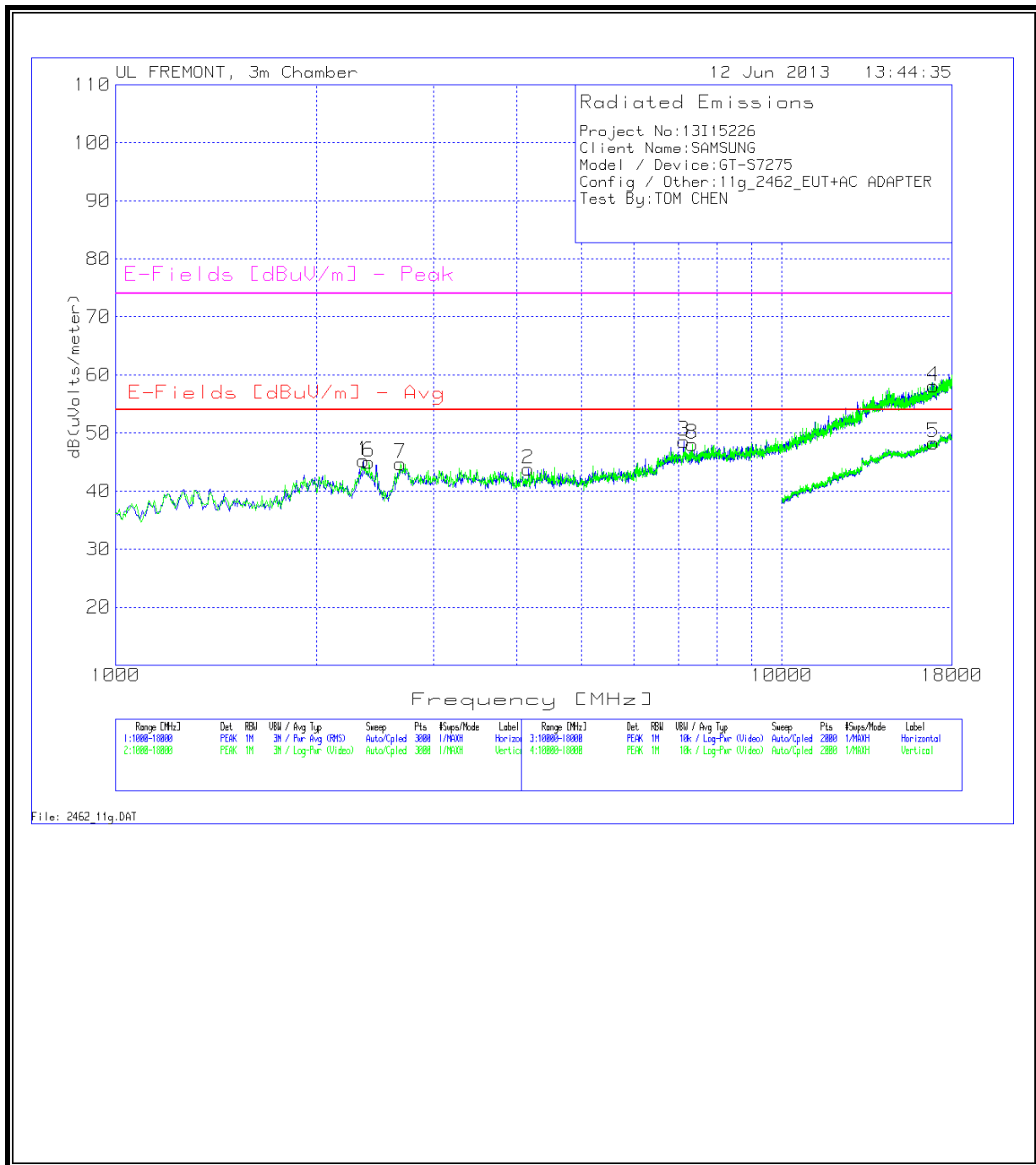
MID CHANNEL



MID CHANNEL

Project No:13I15226														
Client Name:SAMSUNG														
Model / Device:GT-S7275														
Config / Other:11g_2437_EUT+AC ADAPTER														
Test By:TOM CHEN														
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	DC Corr [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz														
1	2438.374	43.04	PK	32.2	-29.6	0.9	0	46.54	53.97	-7.43	74	-27.46	99	Horz
2	2693.205	42.38	PK	32.6	-29	0.9	0	46.88	53.97	-7.09	74	-27.12	99	Horz
3	7121.586	35.34	PK	35.6	-23.1	0.3	0	48.14	53.97	-5.83	74	-25.86	201	Horz
4	16567.288	33.3	PK	41.2	-15.5	0.4	0	59.4	53.97	5.43	74	-14.6	201	Horz
Vertical 1000 - 18000MHz														
6	2404.397	42.86	PK	32.1	-29.7	0.9	0	46.16	53.97	-7.81	74	-27.84	201	Vert
7	2727.182	41.14	PK	32.6	-29	0.9	0	45.64	53.97	-8.33	74	-28.36	100	Vert
8	7200.866	34.84	PK	35.6	-23.1	0.3	0	47.64	53.97	-6.33	74	-26.36	201	Vert
Horizontal 10000 - 18000MHz														
5	16540.73	21.4	PK	41.1	-15.6	0.4	0	47.3	53.97	-6.67	74	-26.7	201	Horz
*:Fundamental														
PK - Peak detector														

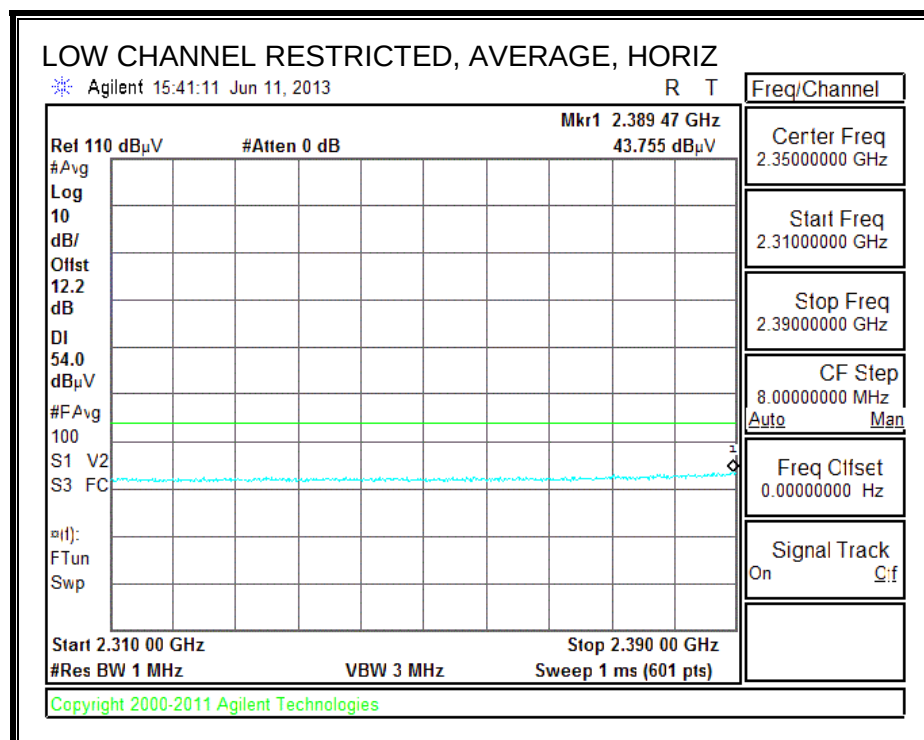
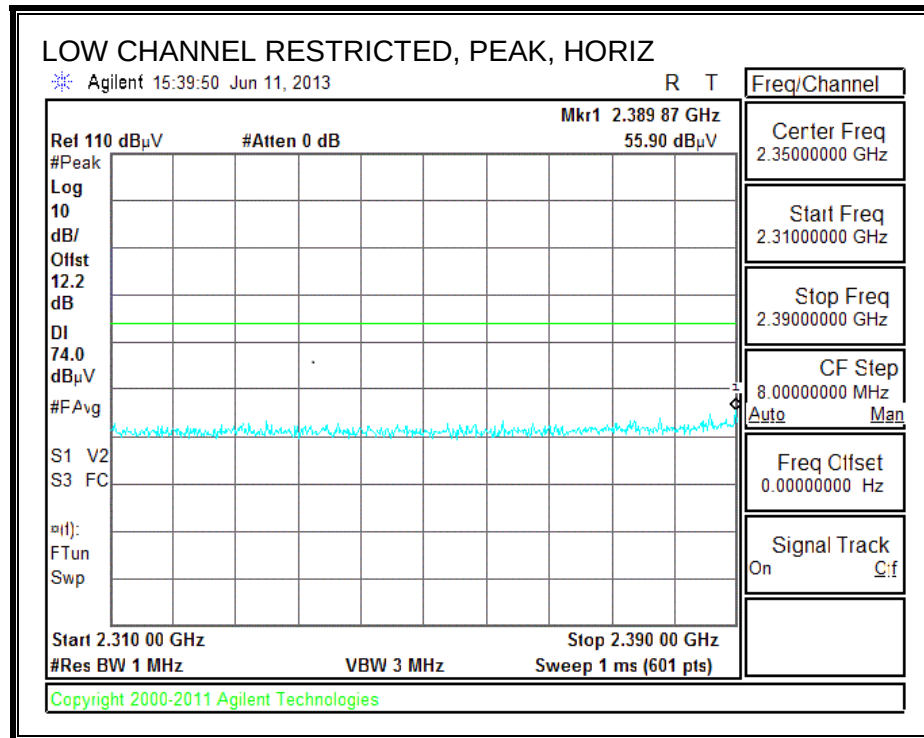
HIGH CHANNEL

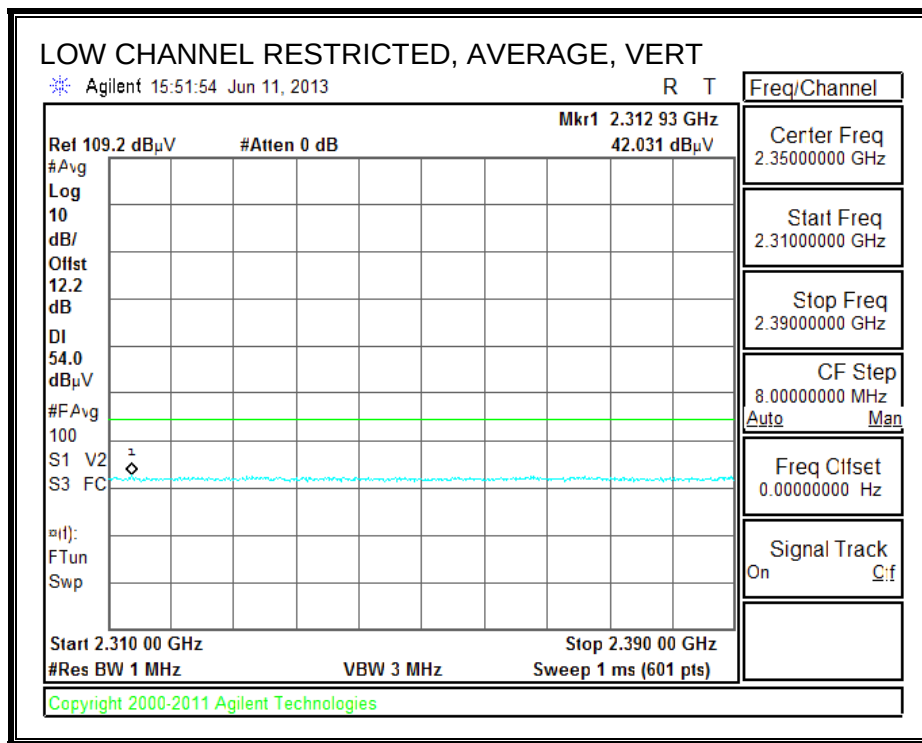
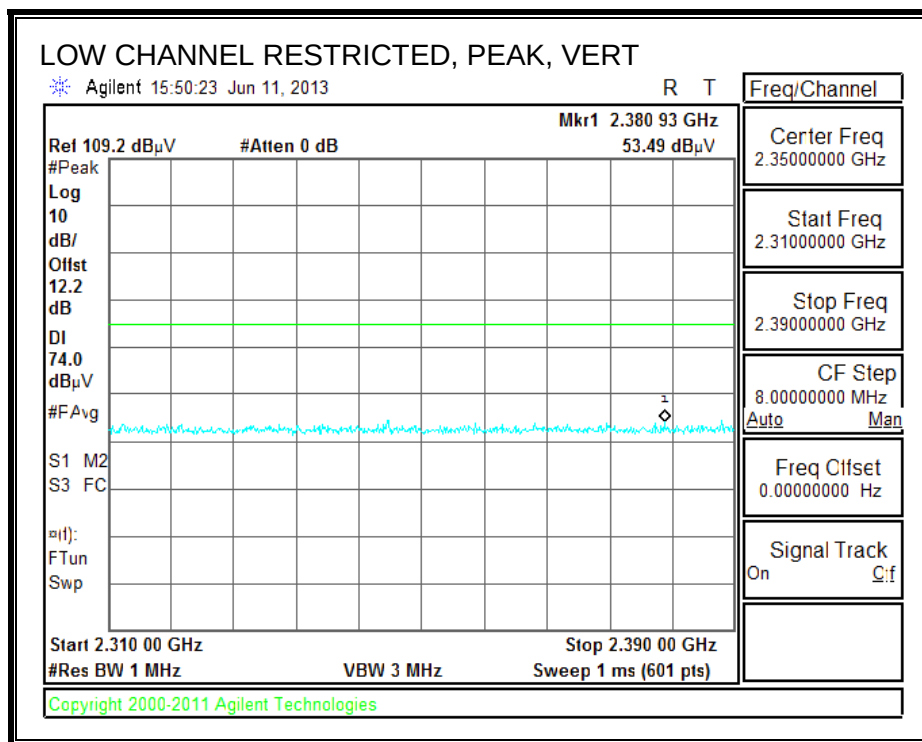


HIGH CHANNEL

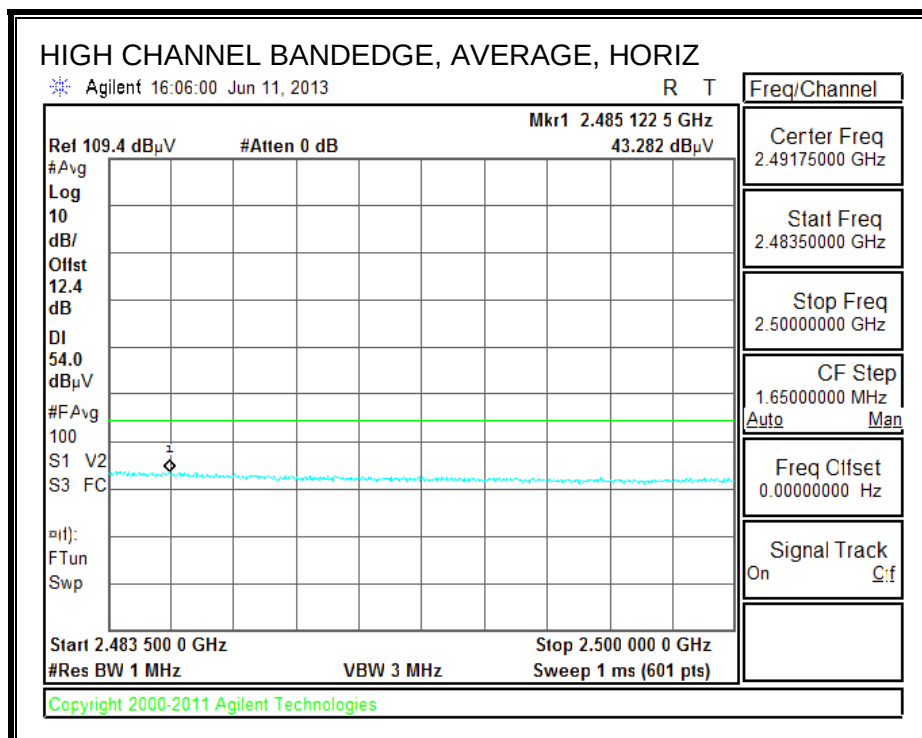
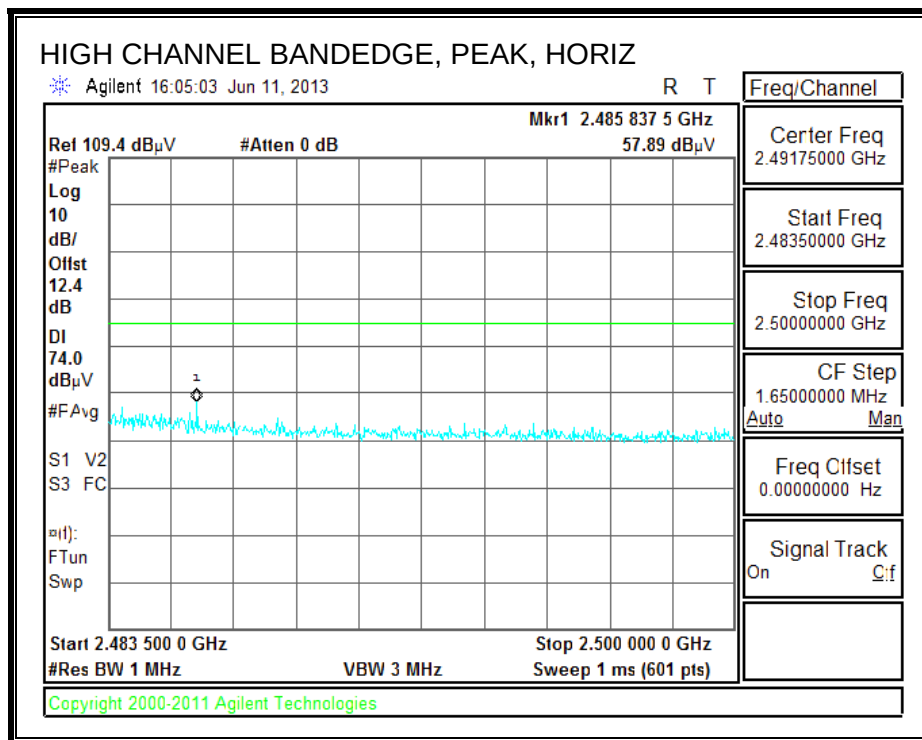
Project No:13I15226														
Client Name:SAMSUNG														
Model / Device:GT-S7275														
Config / Other:11g_2462_EUT+AC ADAPTER														
Test By:TOM CHEN														
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	DC Corr [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz														
*1	2353.431	42.01	PK	32	-29.7	0.9	0	45.21	53.97	-8.76	74	-28.79	200	Horz
2	4165.556	35.96	PK	33.5	-26	0.3	0	43.76	53.97	-10.21	74	-30.24	200	Horz
3	7121.586	35.8	PK	35.6	-23.1	0.3	0	48.6	53.97	-5.37	74	-25.4	200	Horz
4	16890.073	31.47	PK	41.1	-14.9	0.4	0	58.07	53.97	4.1	74	-15.93	200	Horz
Vertical 1000 - 18000MHz														
*6	2398.734	41.66	PK	32.1	-29.7	0.9	0	44.96	53.97	-9.01	74	-29.04	201	Vert
7	2676.216	40.39	PK	32.6	-29.1	0.9	0	44.79	53.97	-9.18	74	-29.21	201	Vert
8	7331.113	35.3	PK	35.6	-23	0.2	0	48.1	53.97	-5.87	74	-25.9	201	Vert
Horizontal 10000 - 18000MHz														
5	16900.55	21.68	PK	41.1	-14.9	0.4	0	48.28	53.97	-5.69	74	-25.72	100	Horz
*:Fundamental														
PK - Peak detector														

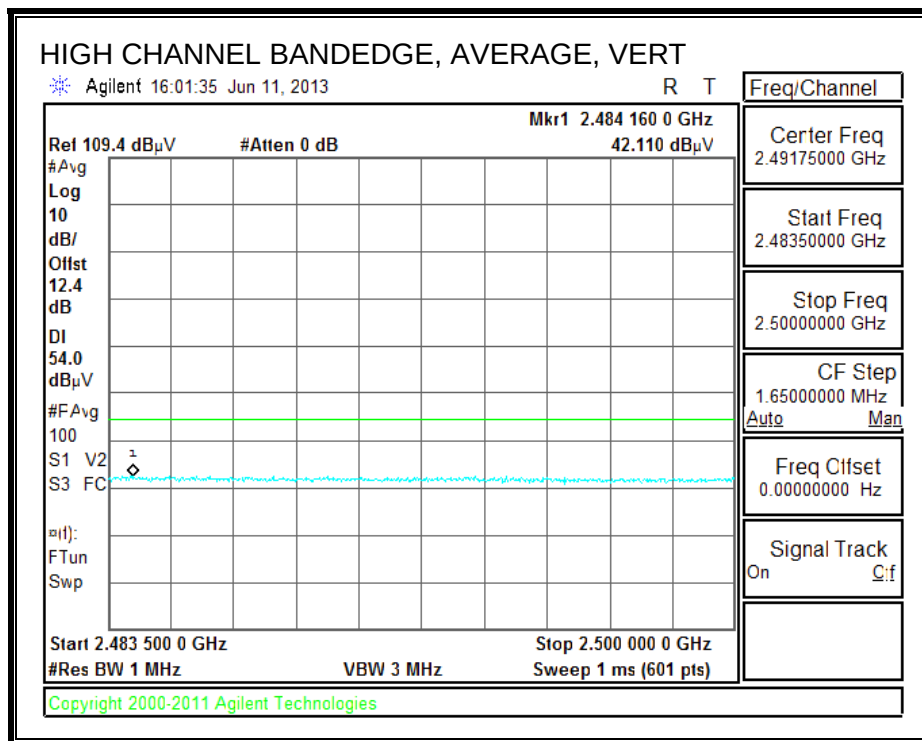
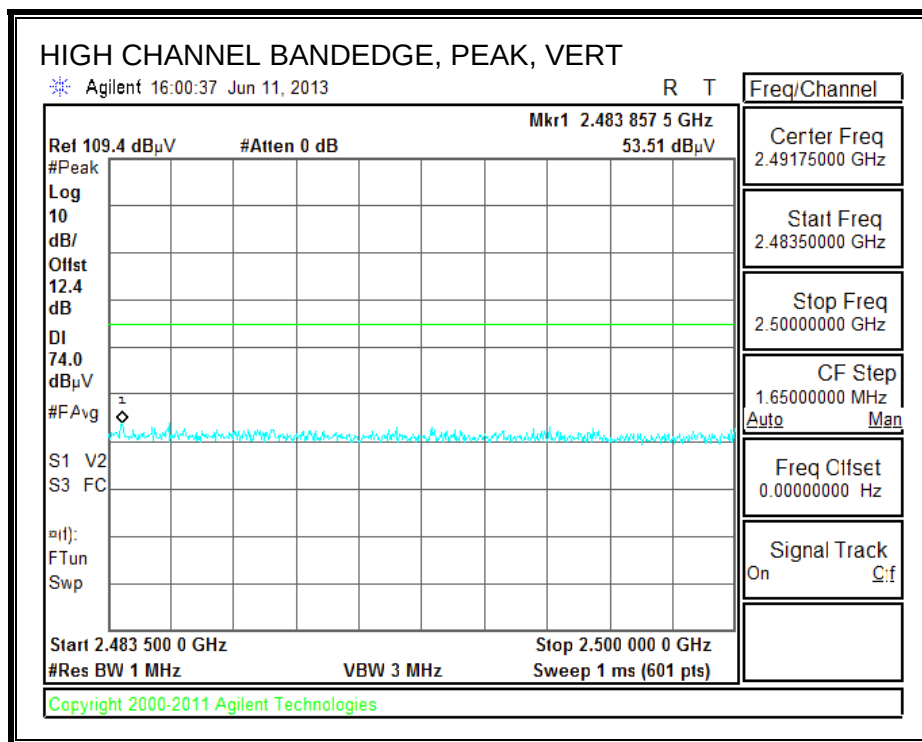
10.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)





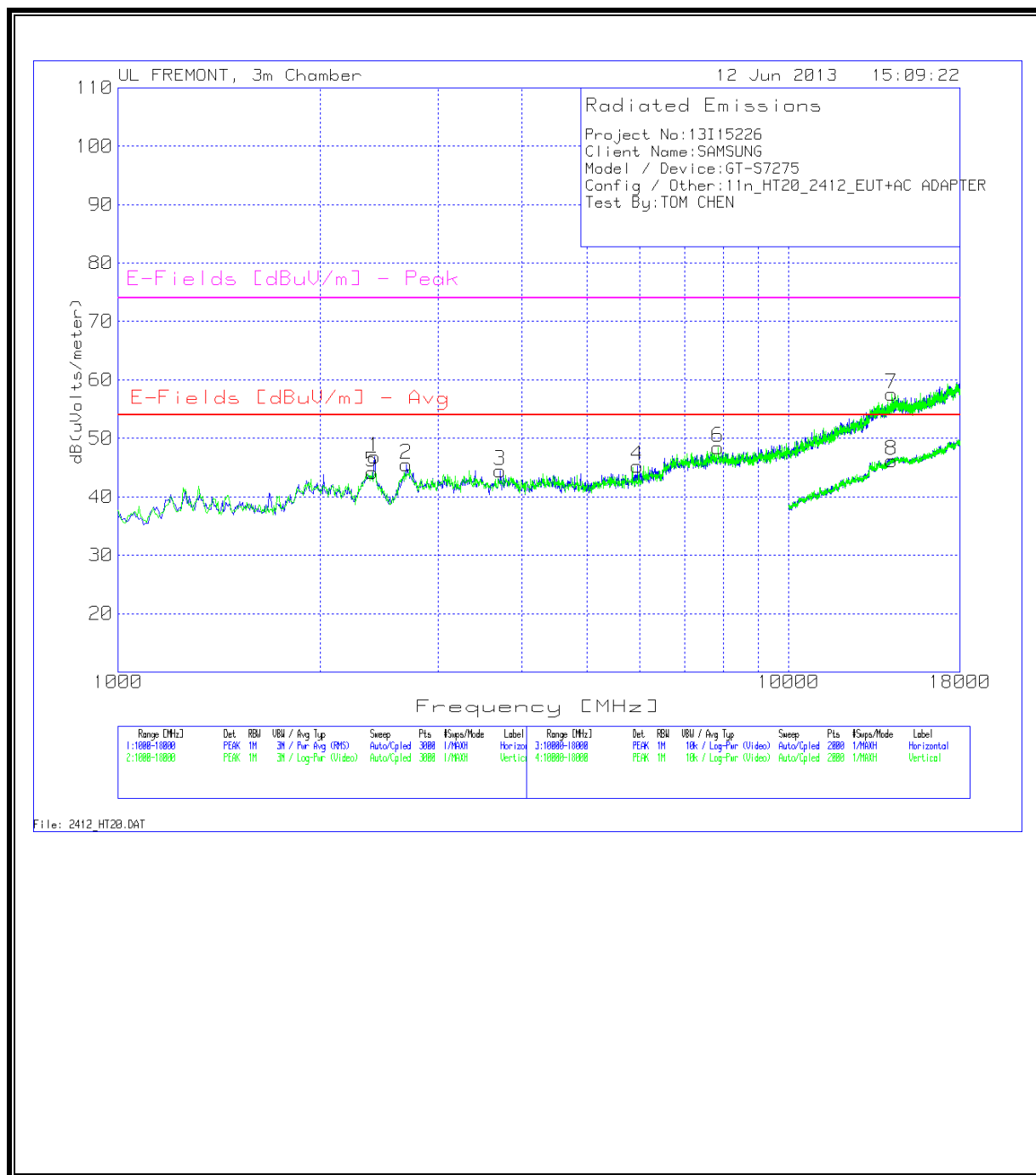
AUTHORIZED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

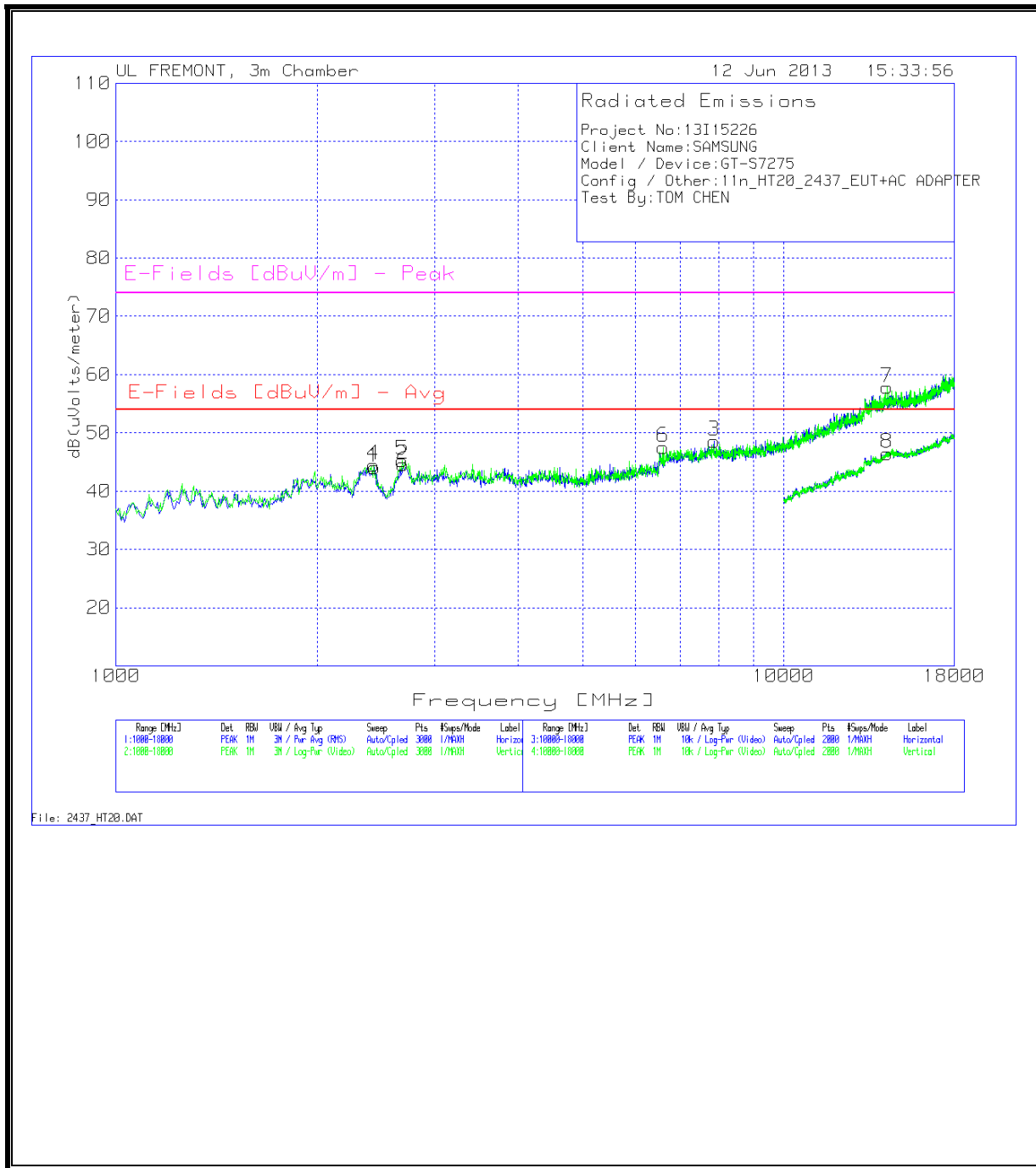
LOW CHANNEL



LOW CHANNEL

Project No:13I15226														
Client Name:SAMSUNG														
Model / Device:GT-S7275														
Config / Other:11n_HT20_2412_EUT+AC ADAPTER														
Test By:TOM CHEN														
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	DC Corr [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] Avg	Margin (dB)	E-Fields [dBuV/m] Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz														
1	2410.06	43.51	PK	32.1	-29.7	0.9	0	46.81	53.97	-7.16	74	-27.19	201	Horz
2	2687.542	41.07	PK	32.6	-29	0.9	0	45.57	53.97	-8.4	74	-28.43	201	Horz
3	3712.525	37.67	PK	33.2	-26.7	0.3	0	44.47	53.97	-9.5	74	-29.53	201	Horz
4	5943.704	34.22	PK	35.2	-24.3	0.2	0	45.32	53.97	-8.65	74	-28.68	99	Horz
Vertical 1000 - 18000MHz														
5	2393.071	40.91	PK	32.1	-29.7	0.9	0	44.21	53.97	-9.76	74	-29.79	201	Vert
6	7852.099	34.96	PK	35.8	-22.6	0.3	0	48.46	53.97	-5.51	74	-25.54	99	Vert
7	14251.166	33.8	PK	39.2	-15.8	0.4	0	57.6	53.97	3.63	74	-16.4	201	Vert
Vertical 10000 - 18000MHz														
8	14257.871	22.44	PK	39.2	-15.8	0.4	0	46.24	53.97	-7.73	74	-27.76	201	Vert
*:Fundamental														
PK - Peak detector														

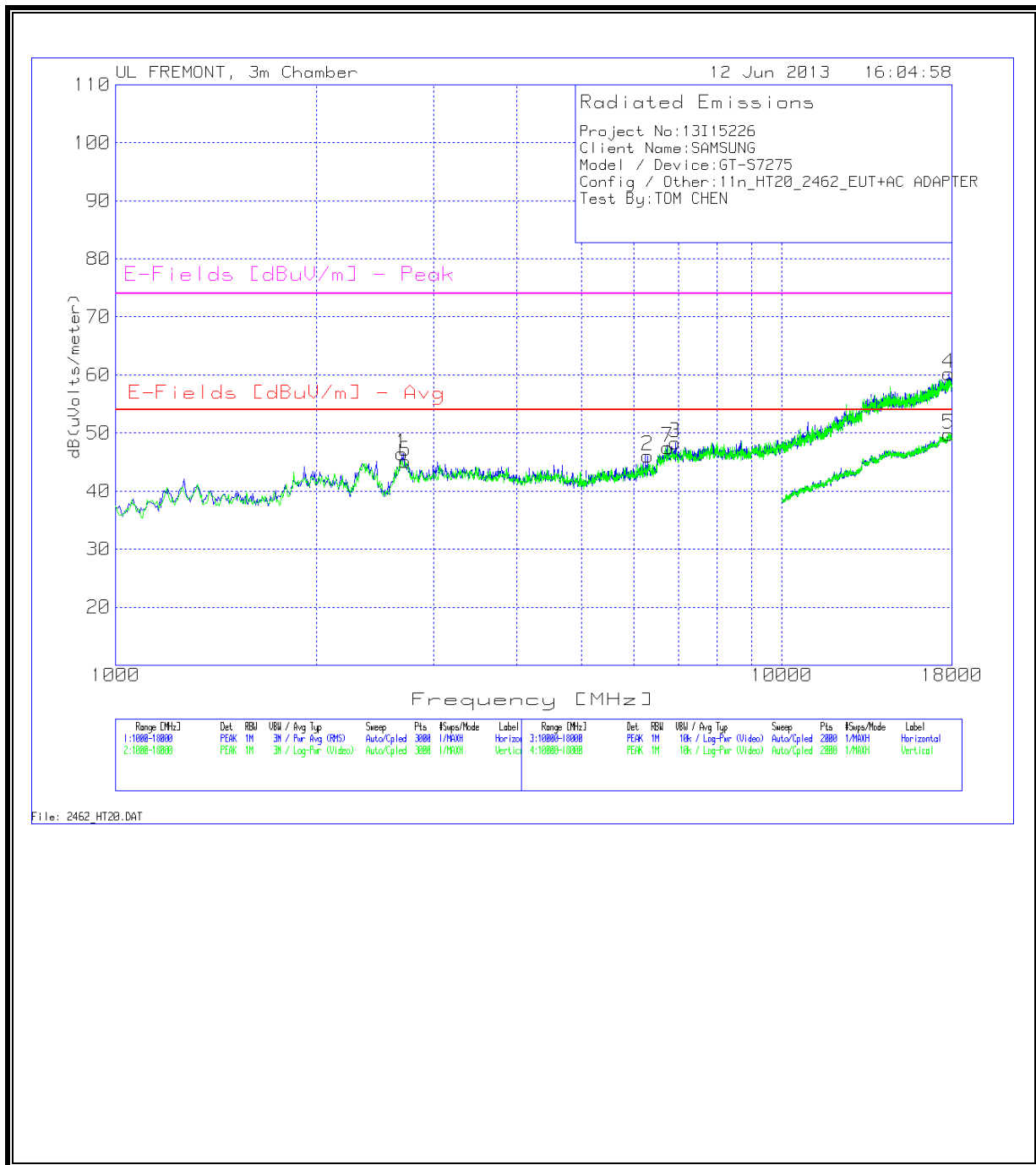
MID CHANNEL



MID CHANNEL

Project No:13I15226														
Client Name:SAMSUNG														
Model / Device:GT-S7275														
Config / Other:11n_HT20_2437_EUT+AC ADAPTER														
Test By:TOM CHEN														
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz														
*1	2438.374	40.63	PK	32.2	-29.6	0.9	0	44.13	53.97	-9.84	74	-29.87	99	Horz
2	2687.542	40.05	PK	32.6	-29	0.9	0	44.55	53.97	-9.42	74	-29.45	201	Horz
3	7857.761	35.13	PK	35.8	-22.6	0.3	0	48.63	53.97	-5.34	74	-25.37	201	Horz
Vertical 1000 - 18000MHz														
*4	2432.712	41.09	PK	32.2	-29.7	0.9	0	44.49	53.97	-9.48	74	-29.51	201	Vert
5	2681.879	40.74	PK	32.6	-29	0.9	0	45.24	53.97	-8.73	74	-28.76	99	Vert
6	6600.6	35.18	PK	35.6	-23.5	0.2	0	47.48	53.97	-6.49	74	-26.52	201	Vert
7	14273.817	34	PK	39.2	-15.8	0.4	0	57.8	53.97	3.83	74	-16.2	201	Vert
Vertical 10000 - 18000MHz														
8	14289.855	22.53	PK	39.3	-15.8	0.4	0	46.43	53.97	-7.54	74	-27.57	201	Vert
*:Fundamental														
PK - Peak detector														

HIGH CHANNEL

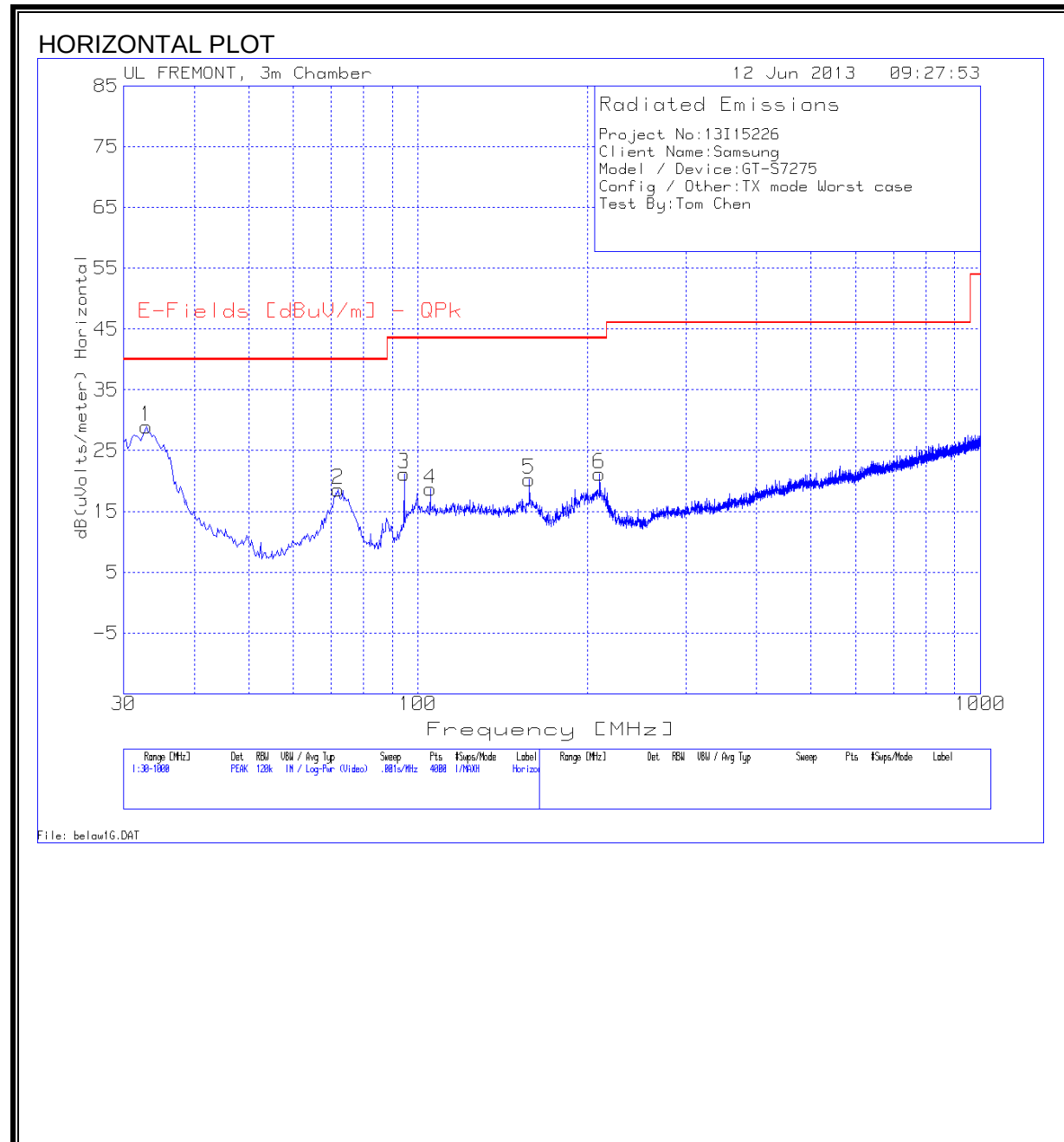


HIGH CHANNEL

Project No:13I15226														
Client Name:SAMSUNG														
Model / Device:GT-S7275														
Config / Other:11n_HT20_2462 EUT+AC ADAPTER														
Test By:TOM CHEN														
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	DC Corr [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] Avg	Margin (dB)	E-Fields [dBuV/m] Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz														
*1	2687.542	41.92	PK	32.6	-29	0.9	0	46.42	53.97	-7.55	74	-27.58	100	Horz
2	6283.478	34.29	PK	35.3	-23.7	0.2	0	46.09	53.97	-7.88	74	-27.91	100	Horz
3	6912.059	35.68	PK	35.6	-23.2	0.2	0	48.28	53.97	-5.69	74	-25.72	100	Horz
4	17790.473	32.31	PK	41.5	-14.1	0.6	0	60.31	53.97	6.34	74	-13.69	201	Horz
Vertical 1000 - 18000MHz														
*6	2721.519	40.61	PK	32.6	-29	0.9	0	45.11	53.97	-8.86	74	-28.89	201	Vert
7	6742.172	34.97	PK	35.6	-23.3	0.3	0	47.57	53.97	-6.4	74	-26.43	99	Vert
Horizontal 10000 - 18000MHz														
5	17812.094	21.58	PK	41.5	-14	0.7	0	49.78	53.97	-4.19	74	-24.22	100	Horz
*:Fundamental														
PK - Peak detector														

10.3. WORST-CASE BELOW 1 GHz

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

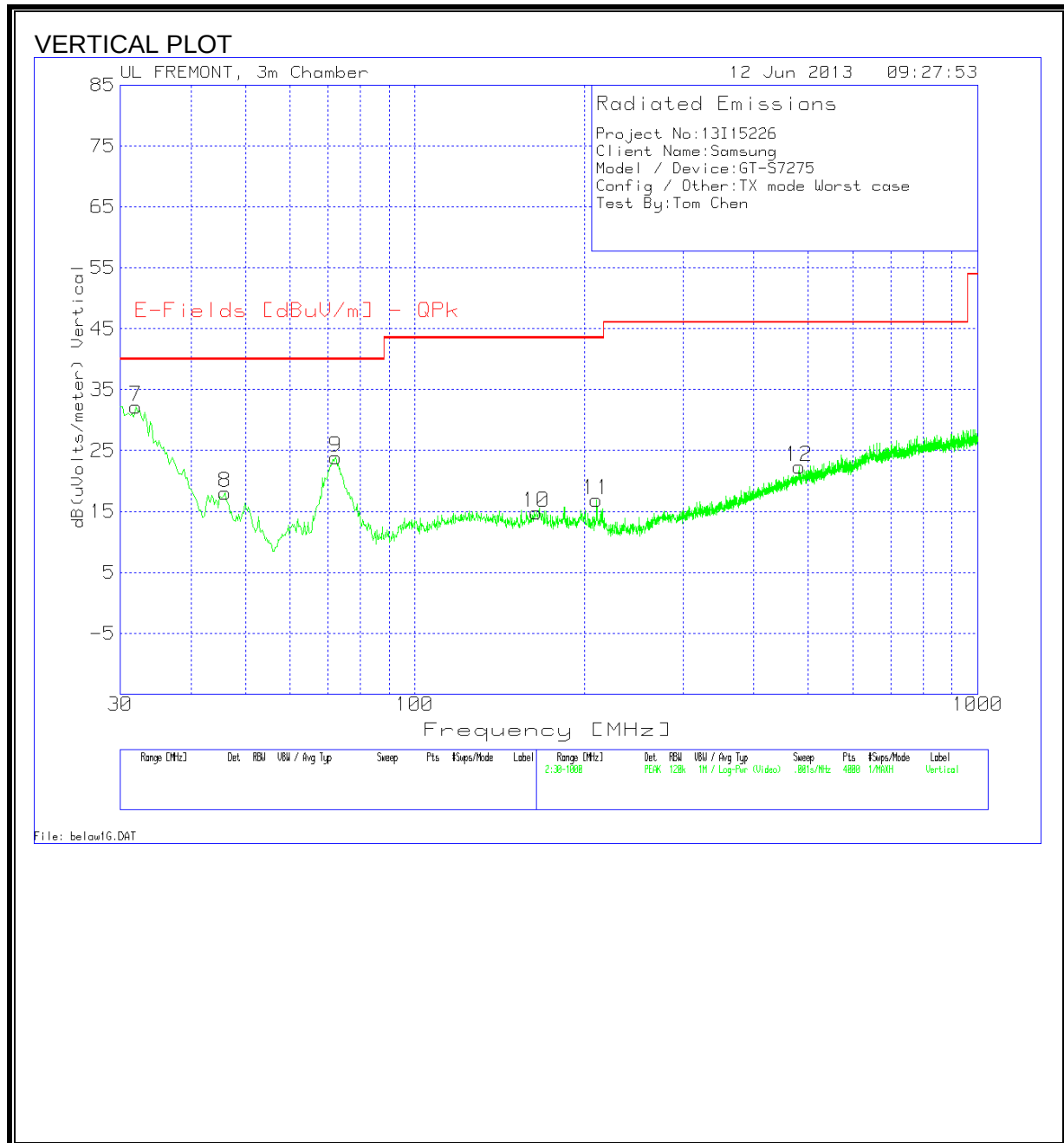


HORIZONTAL DATA

Marker No.	Test Frequency	Meter Reading	Detector	T130 Ant Factor [dB/m]	30MHz-1000MHz Chamber3 m Ampl ff	dB(uVolts/meter)	E-Fields [dBuV/m] QPk	Margin (dB)	Height [cm]	Polarity
Horizontal 30 - 1000MHz										
2	72.1634	37.71	PK	8	-27.1	18.61	40	-21.39	301	Horz
3	94.4567	39.53	PK	8.6	-26.9	21.23	43.52	-22.29	399	Horz
4	105.1187	33.95	PK	11.5	-26.8	18.65	43.52	-24.87	201	Horz
5	157.7017	34.36	PK	12.2	-26.3	20.26	43.52	-23.26	201	Horz
6	210.2848	36.54	PK	10.4	-25.8	21.14	43.52	-22.38	100	Horz

PK - Peak detector

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



VERTICAL DATA

Marker No.	Test Frequency	Meter Reading	Detector	T130 Ant Factor [dB/m]	30MHz-1000MHz Chamber3 m Ampl ff	dB(uVolts/meter)	E-Fields [dBuV/m] QPk	Margin (dB)	Height [cm]	Polarity
Vertical 30 - 1000MHz										
7	31.9385	40.42	PK	19.5	-27.7	32.22	40	-7.78	199	Vert
8	45.993	36.08	PK	9.5	-27.5	18.08	40	-21.92	199	Vert
9	72.4057	43.09	PK	8	-27.2	23.89	40	-16.11	199	Vert
10	164.2443	29.32	PK	12	-26.5	14.82	43.52	-28.7	199	Vert
11	210.2848	32.8	PK	10.4	-26.3	16.9	43.52	-26.62	199	Vert
12	481.9236	29.3	PK	17.8	-24.8	22.3	46.02	-23.72	399	Vert
PK - Peak detector										

11. 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.

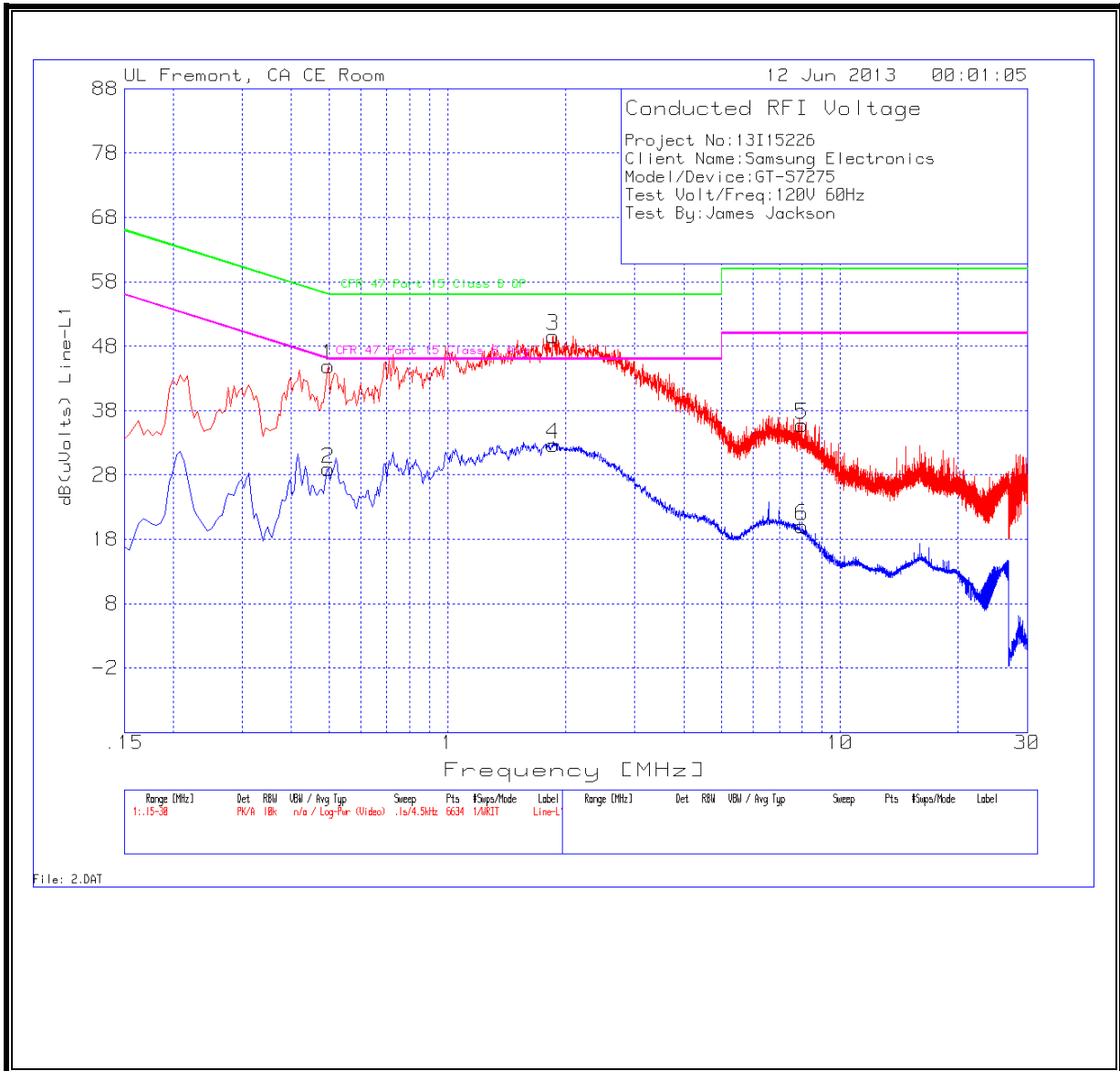
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

Project No:13I15226										
Client Name:Samsung Electronics										
Model/Device:GT-S7275										
Test Volt/Freq:120V 60Hz										
Test By:James Jackson										
Line-L1 .15 - 30MHz										
Marker No.	Test Frequency	Meter Reading	Detector	T24 IL L1.TXT	LC Cables 1&3.TXT	dB(uVolts)	CFR 47 Part 15 Class B QP	Margin	CFR 47 Part 15 Class B Avg	Margin
1	0.4965	44.81	PK	0.1	0	44.91	56.1	-11.19	46.1	-1.19
2	0.4965	28.79	Av	0.1	0	28.89	56.1	-27.21	46.1	-17.21
3	1.8555	49.39	PK	0.1	0.1	49.59	56	-6.41	46	3.59
4	1.8555	32.54	Av	0.1	0.1	32.74	56	-23.26	46	-13.26
5	7.9935	35.62	PK	0.1	0.1	35.82	60	-24.18	50	-14.18
6	7.9935	19.87	Av	0.1	0.1	20.07	60	-39.93	50	-29.93
Line-L2 .15 - 30MHz										
Marker No.	Test Frequency	Meter Reading	Detector	T24 IL L2.TXT	LC Cables 2&3.TXT	dB(uVolts)	CFR 47 Part 15 Class B QP	Margin	CFR 47 Part 15 Class B Avg	Margin
7	0.6585	38.23	PK	0.1	0	38.33	56	-17.67	46	-7.67
8	0.6585	6.89	Av	0.1	0	6.99	56	-49.01	46	-39.01
9	1.9545	42.01	PK	0.1	0.1	42.21	56	-13.79	46	-3.79
10	1.9545	11.81	Av	0.1	0.1	12.01	56	-43.99	46	-33.99
11	28.626	38.3	PK	0.5	0.3	39.1	60	-20.9	50	-10.9
12	28.626	16.02	Av	0.5	0.3	16.82	60	-43.18	50	-33.18
PK - Peak detector										

LINE 1 RESULTS



LINE 2 RESULTS

