



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

BAR PHONE WITH 802.11b/g/n WLAN AND BLUETOOTH

MODEL NUMBER: GT-I8262

FCC ID: A3LGTI8262

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Prepared for

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	04/20/13	Initial Issue	P. Kim
A	4/30/13	Replaced LC Data to Class B	Chin Pang
B	5/1/13	Updated Antenna gain with correct information	P. Kim
C	5/1/13	Updated Antenna gain information again	P. Kim

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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: BAR PHONE WITH 802.11b/g/n WLAN AND BLUETOOTH

MODEL: GT-I8262

SERIAL NUMBER: FK-087D (CONDUCTED) AND FK-087C (RADIATED)

DATE TESTED: APRIL 10-20, 2013

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass

UL CCS 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 CCS 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 CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL CCS 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 CCS By:

Tested By:



PHILIP KIM
WiSE PROGRAM MANAGER
UL Verification Services



CHIN PANG
WiSE ENGINEER
UL Verification Services

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 CCS 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:

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

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 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 802.11b/g/n WLAN, Bluetooth, GPS and 2.4 GHz mobile hotspot capability.

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	18.01	63.24
2412 - 2462	802.11g	20.15	103.51
2412 - 2462	802.11n HT20	18.73	74.64

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna with a maximum gain of -2.4 dBi.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Android version 4.1.2. build number JZO54K I8262XXAMC3 with baseband I862XXAM3.

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 and Z, it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation with AC adapter and headset.

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

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Samsung	ETA0U10EBE	RT1CB11CS/A-E	N/A
Headset	Samsung	GH59-11129H	EHS64AVFWE	N/A

I/O CABLES (CONDUCTED SETUP)

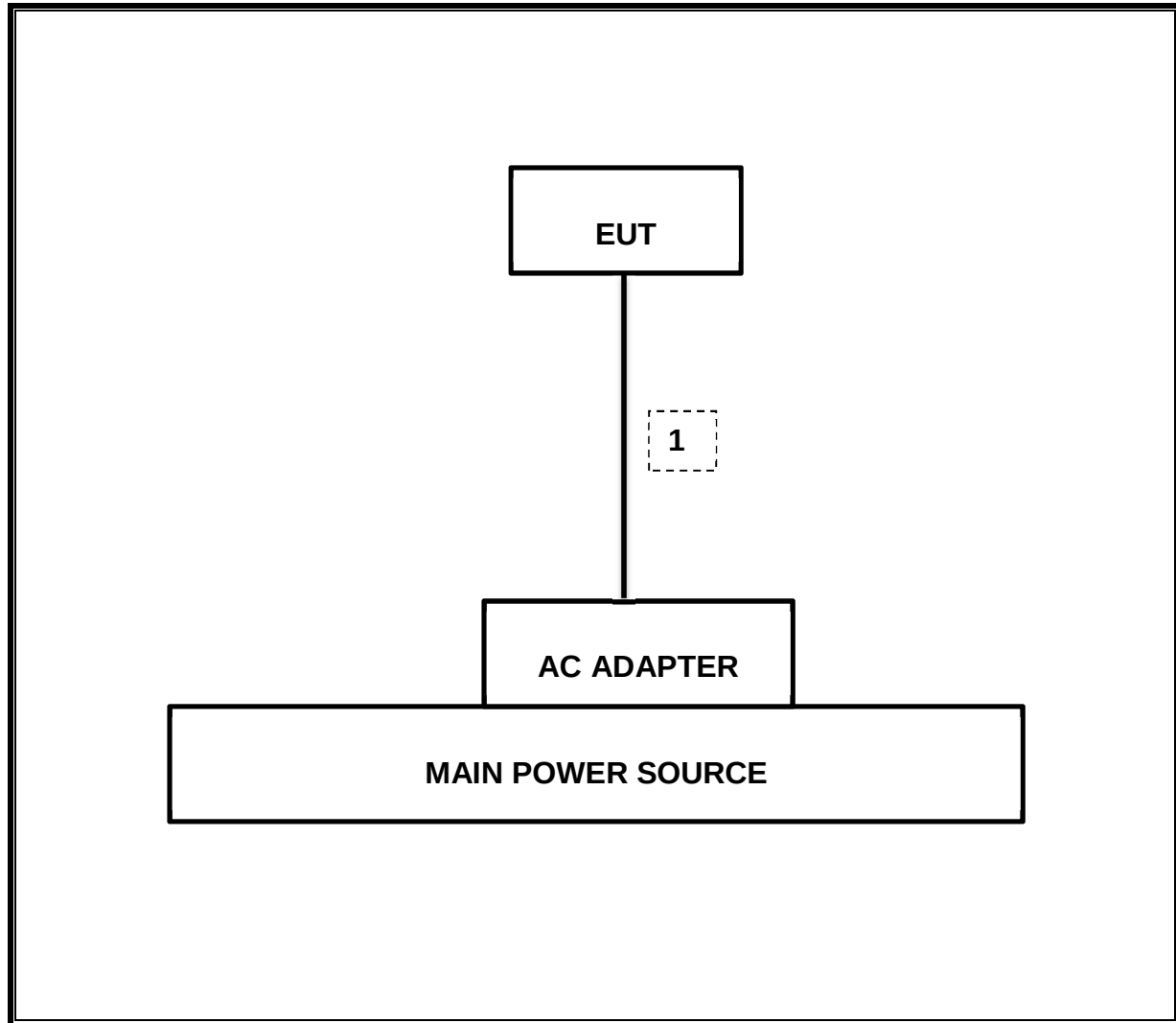
I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	USB	Shielded	1.0	N/A

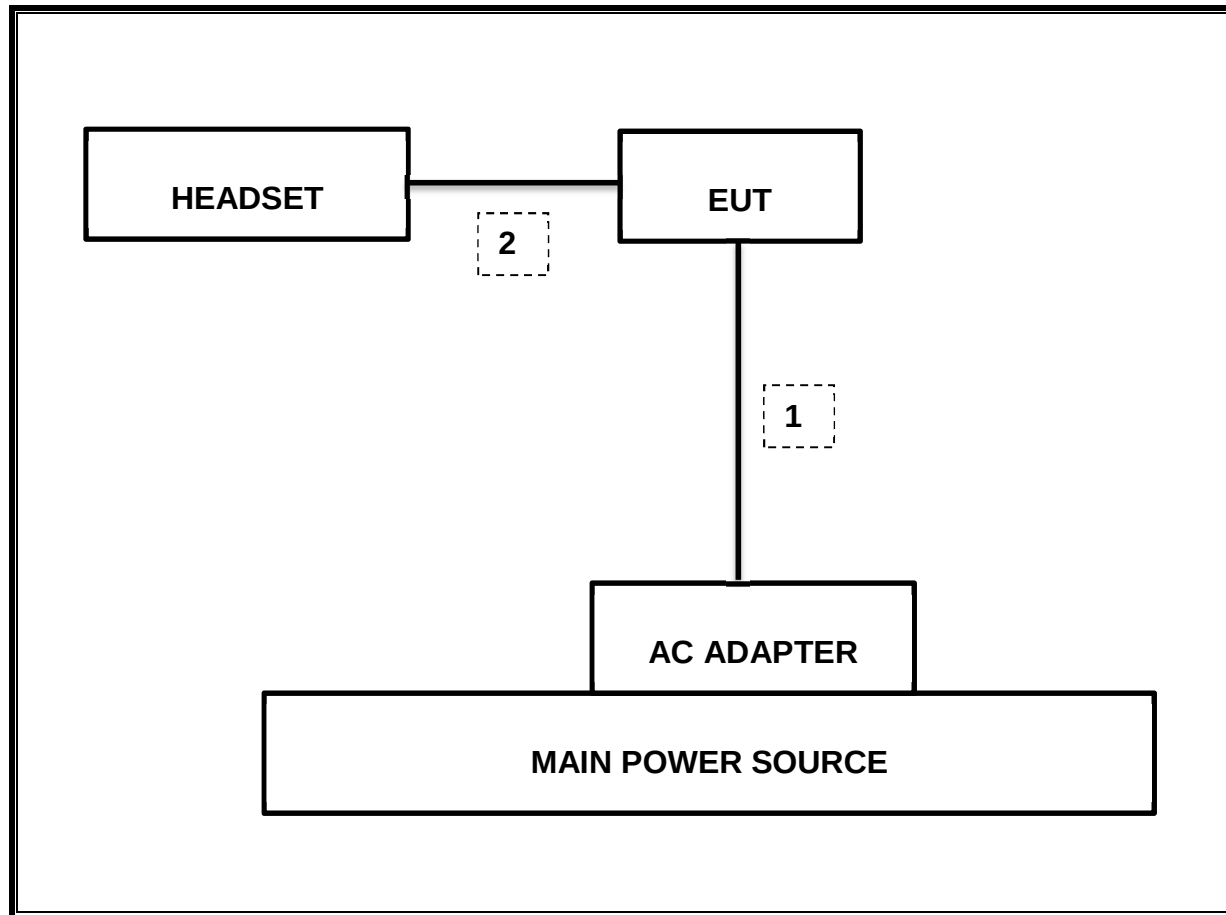
I/O CABLES (RADIATED SETUP)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	USB	Shielded	1.0	N/A
2	Audio	1	Headset	Un-Shielded	1.5	N/A

TEST SETUP

The EUT is with an AC adapter that was tested in the worst case orientation and configuration, where applicable, during the tests. Test software exercised the radio.





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	C01011	03/28/14
Antenna, Horn, 18 GHz	ETS	3117	C01006	12/11/13
Antenna, Horn, 25.5 GHz	ARA	MWH-1826/B	C00980	11/14/13
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/28/14
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	10/22/13
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/13
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/08/13
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/13
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/13
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/14
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR

7. MEASUREMENT METHODS

On Time and Duty Cycle: KDB 558074 D01 v02; section 5.

6 dB Bandwidth: KDB 558074 D01 v02; section 7.1 Option 1.

Output Power: KDB 558074 D01 v02; section 8.1.2 Option 2.

Power Spectral Density: KDB 558074 D01 v02; section 9.1 Option 1.

Out-Of-Band Emission: KDB 558074 D01 v02; Section 10.

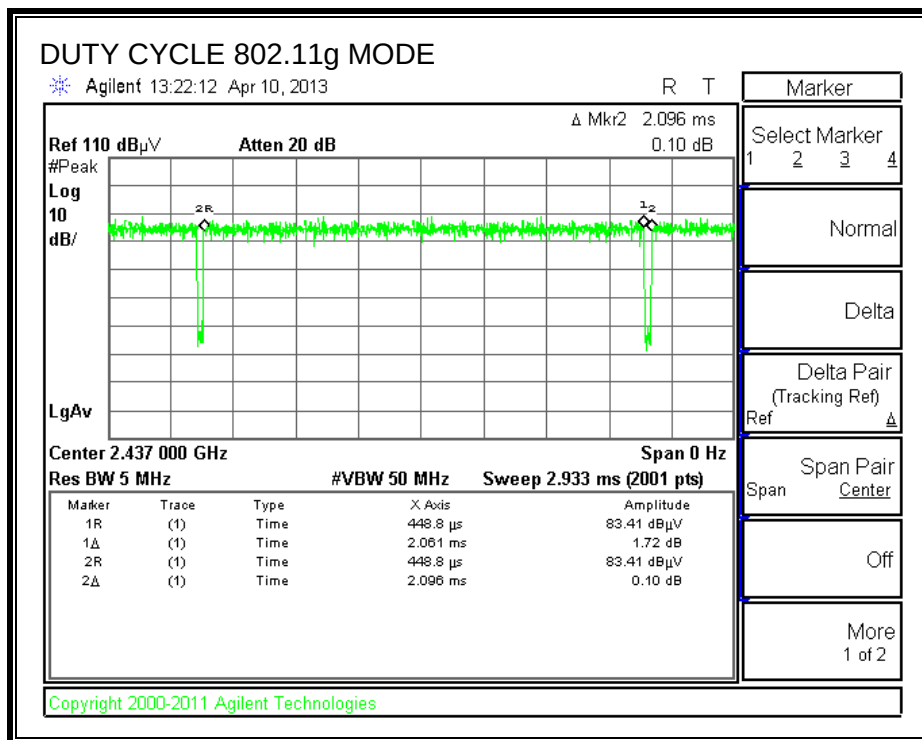
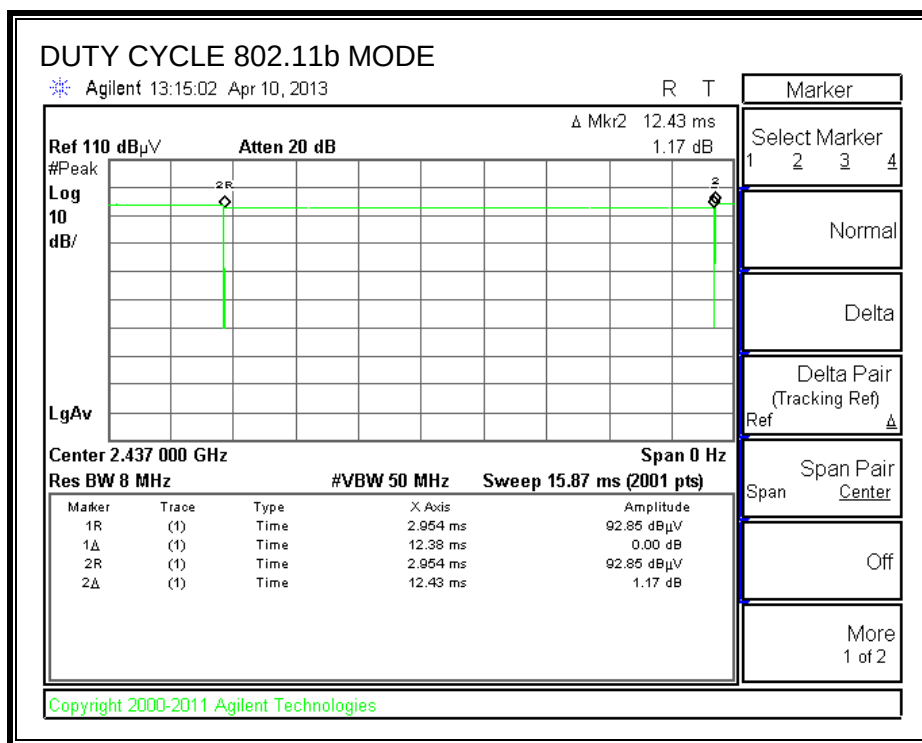
8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

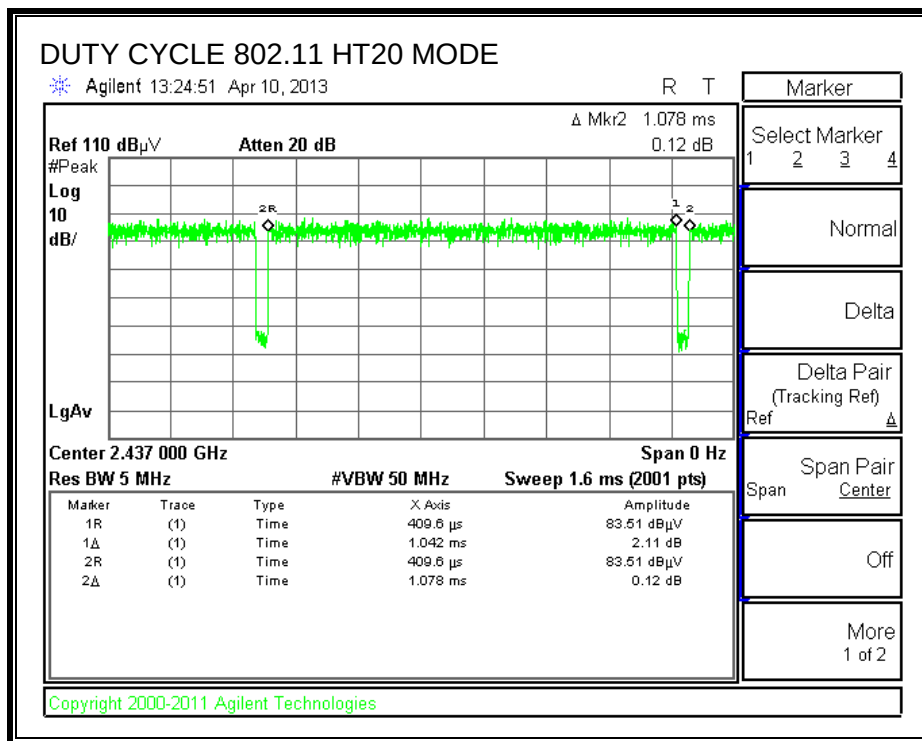
LIMITS

None; for reporting purposes only.

8.1. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	12.38	12	0.996	99.6%	0.00
802.11g	2.061	2.096	0.983	98.3%	0.00
802.11n HT20	1.042	1.078	0.967	96.7%	0.15





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)

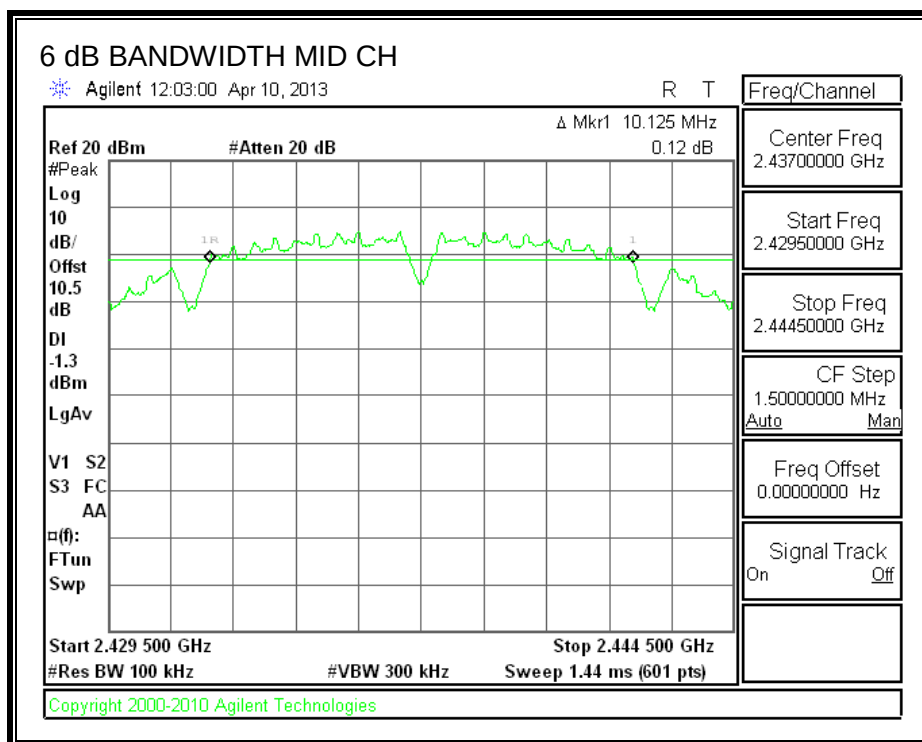
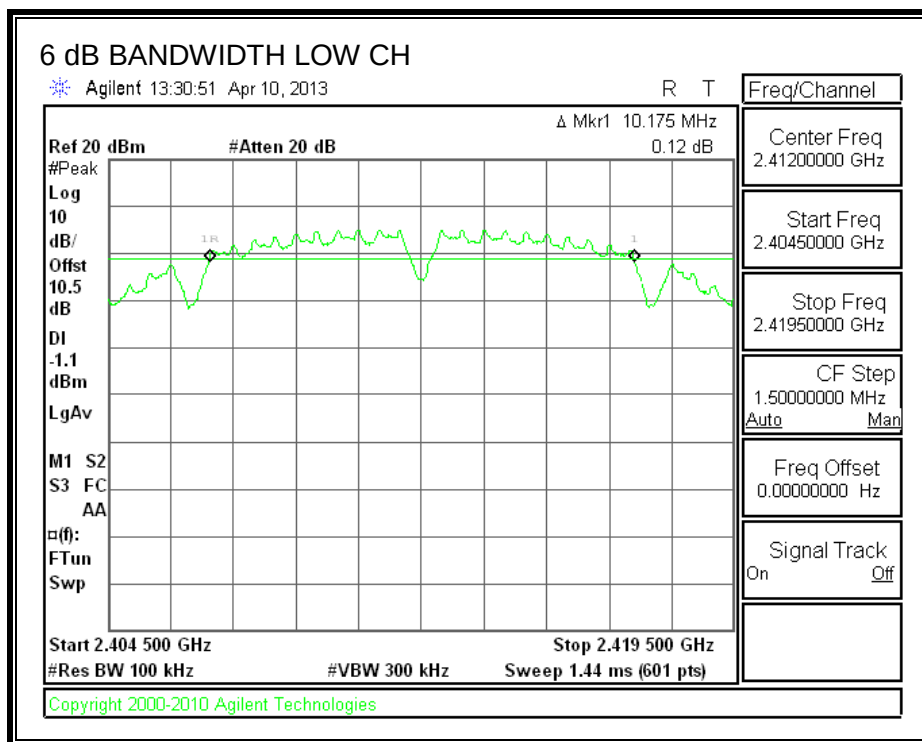
The minimum 6 dB bandwidth shall be at least 500 kHz.

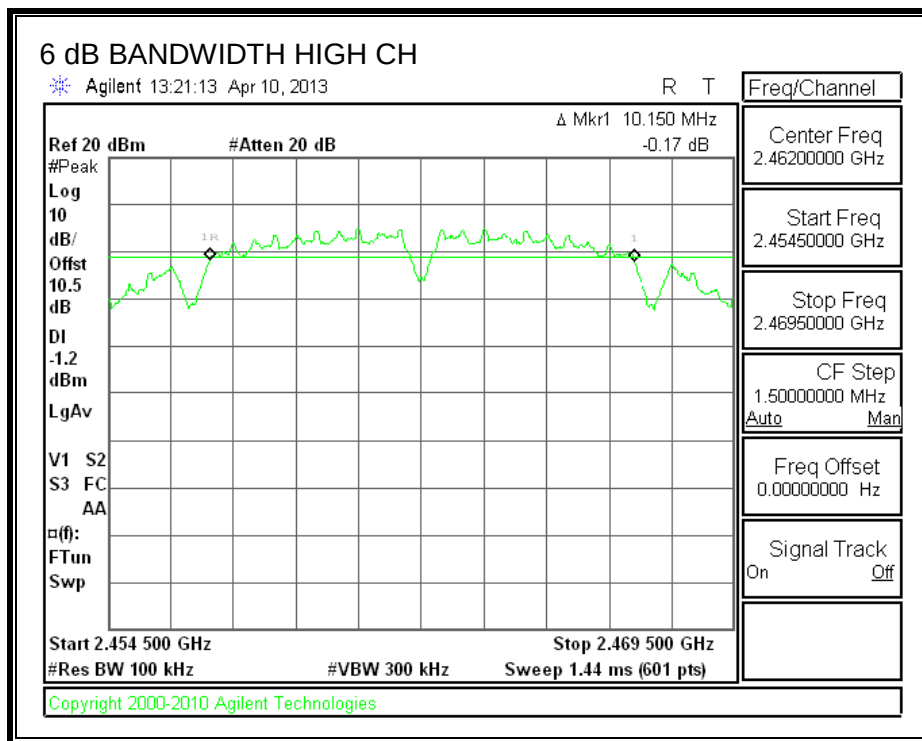
TEST PROCEDURE

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	10.175	0.5
Mid	2437	10.125	0.5
High	2462	10.150	0.5





9.1.2. 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 pad was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
Low	2412	15.87
Mid	2437	15.75
High	2462	15.73

9.1.3. 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

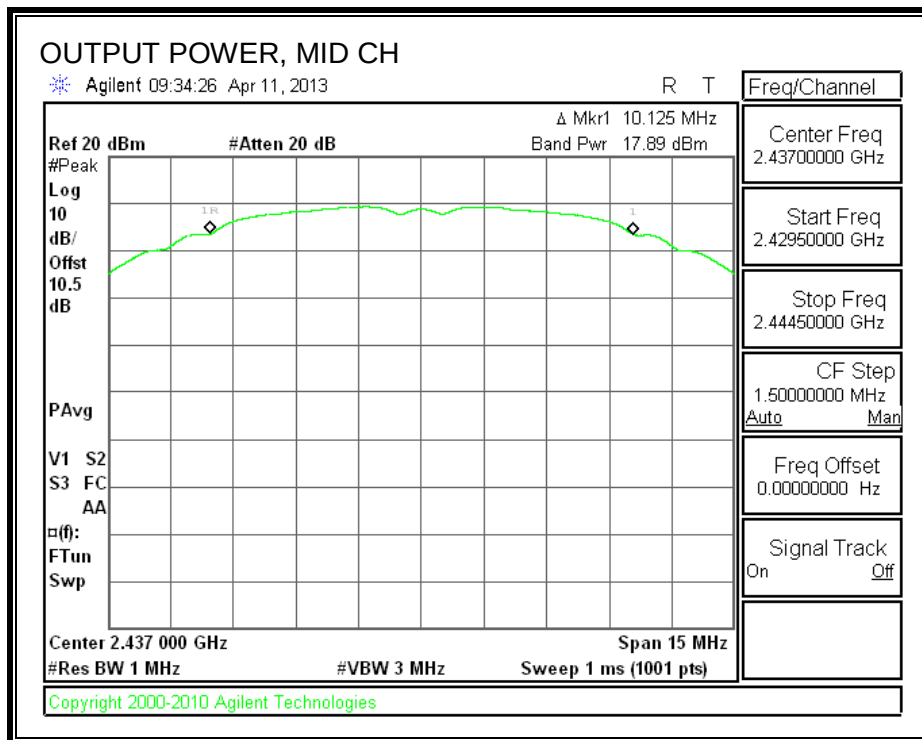
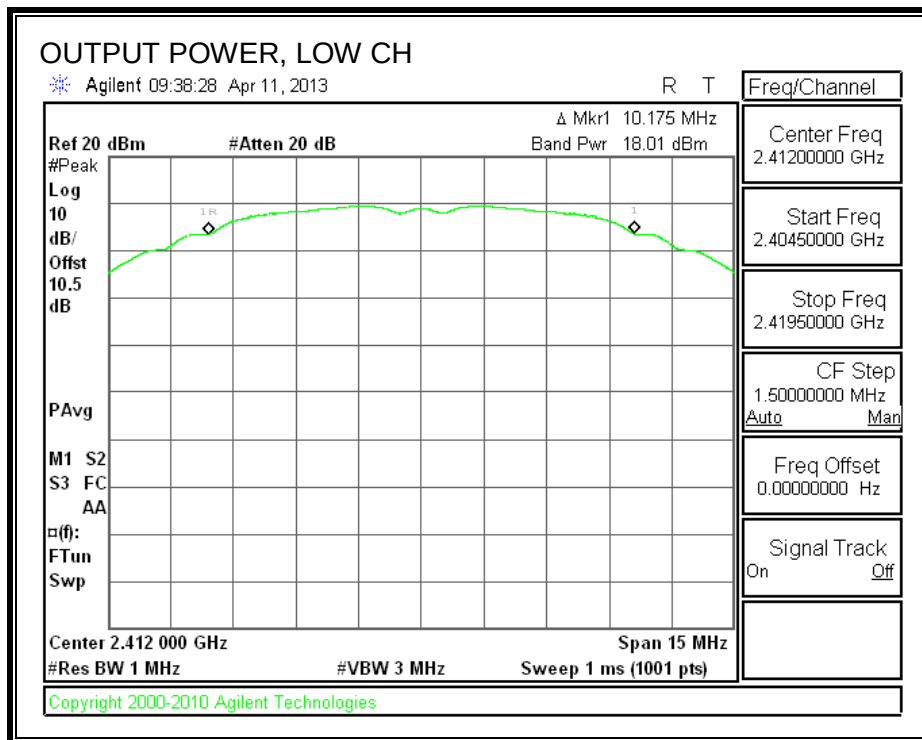
Limits

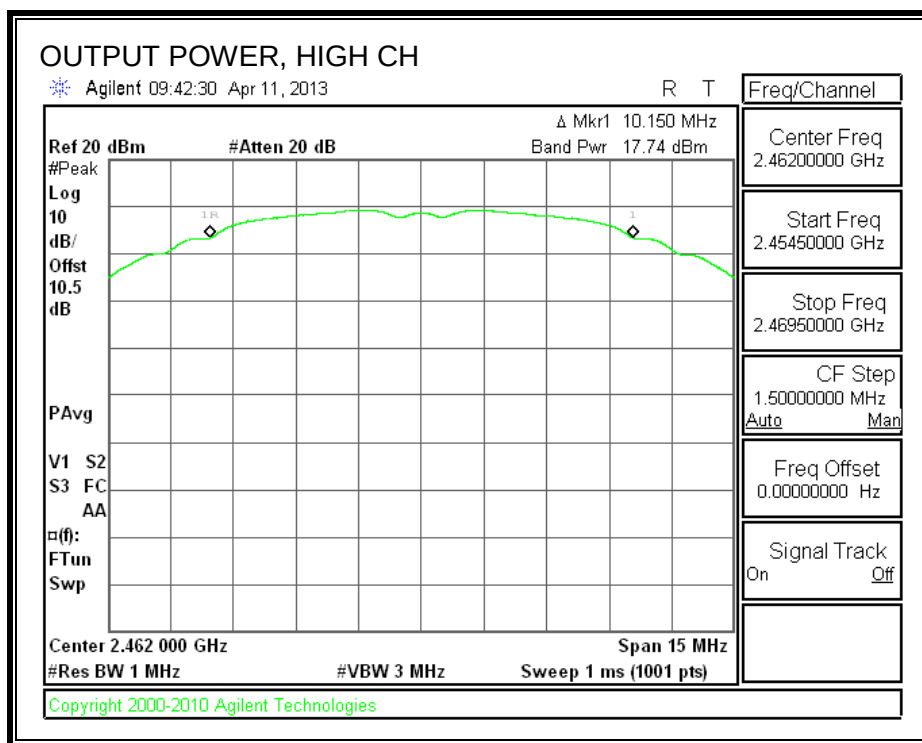
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	1.44	30.00	30	36	30.00
Mid	2437	1.44	30.00	30	36	30.00
High	2462	1.44	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	18.01	18.01	30.00	-11.99
Mid	2437	17.89	17.89	30.00	-12.11
High	2462	17.74	17.74	30.00	-12.26

OUTPUT POWER





9.1.4. PSD

LIMITS

FCC §15.247

IC RSS-210 A8.2

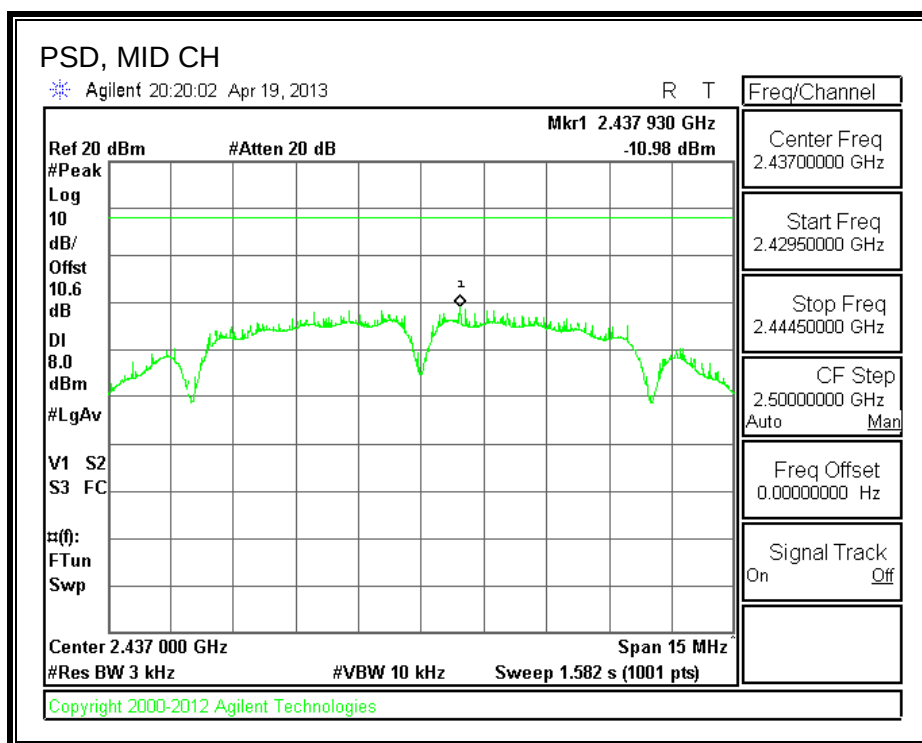
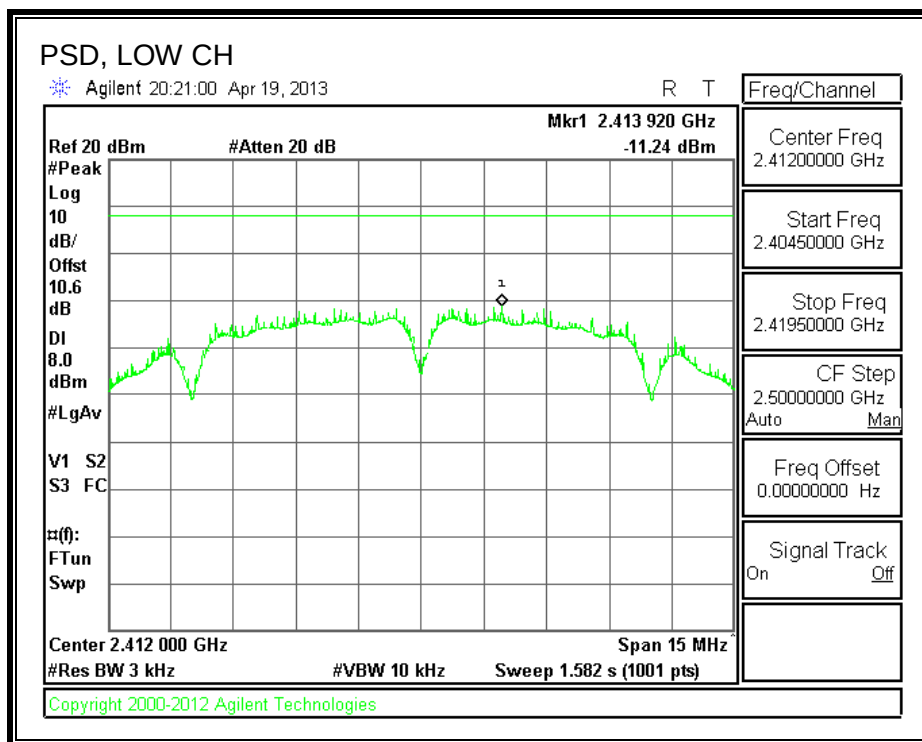
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

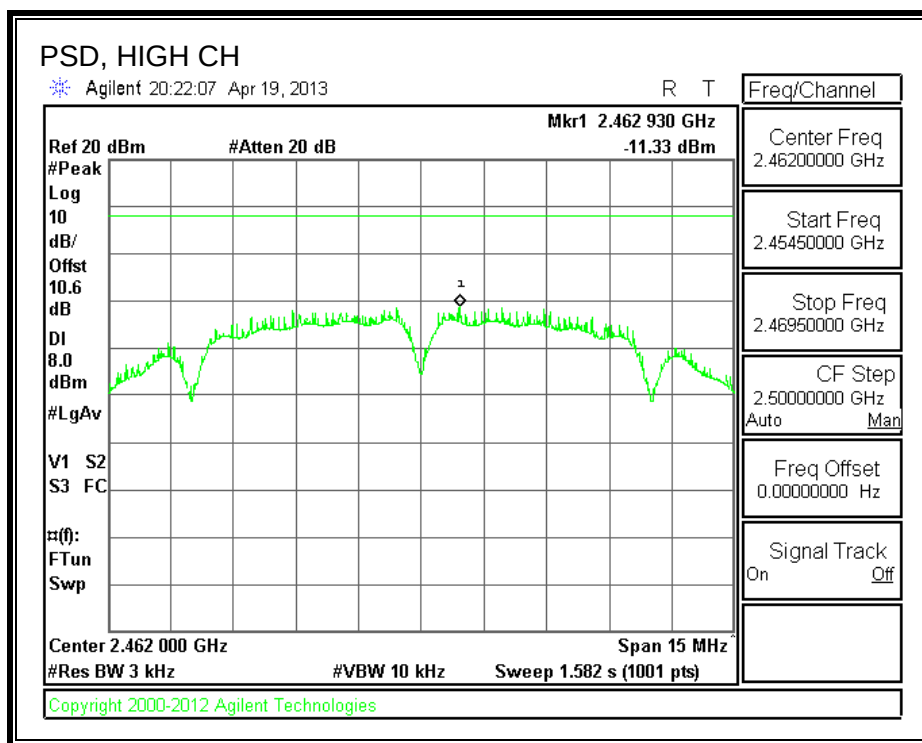
RESULTS

PSD Results

Channel	Frequency (MHz)	Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-11.24	8.0	-19.2
Mid	2437	-10.98	8.0	-19.0
High	2462	-11.33	8.0	-19.3

PSD





9.1.5. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

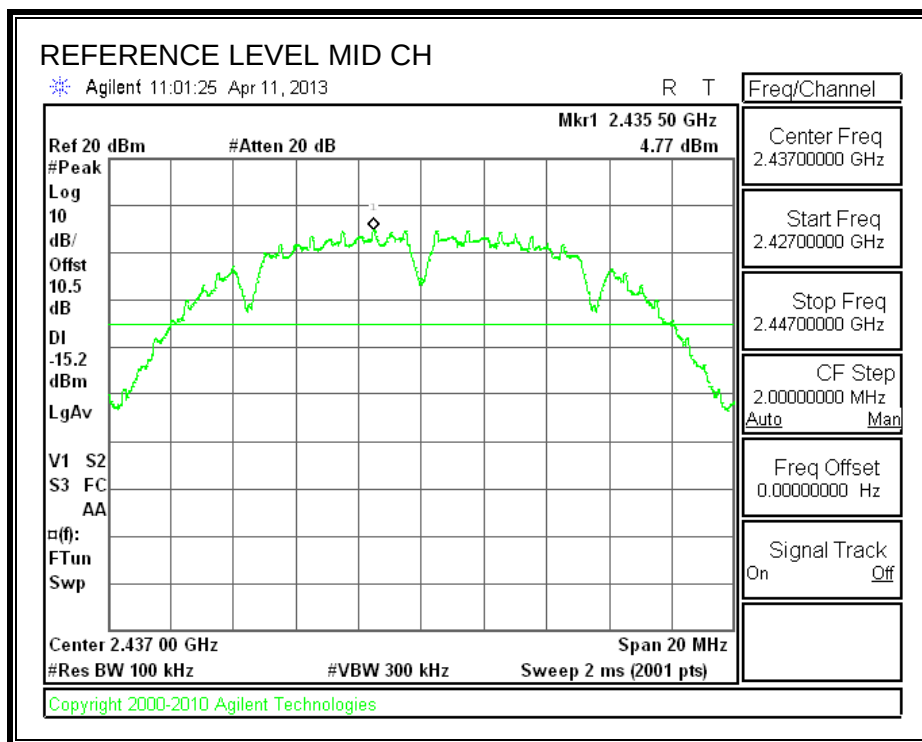
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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

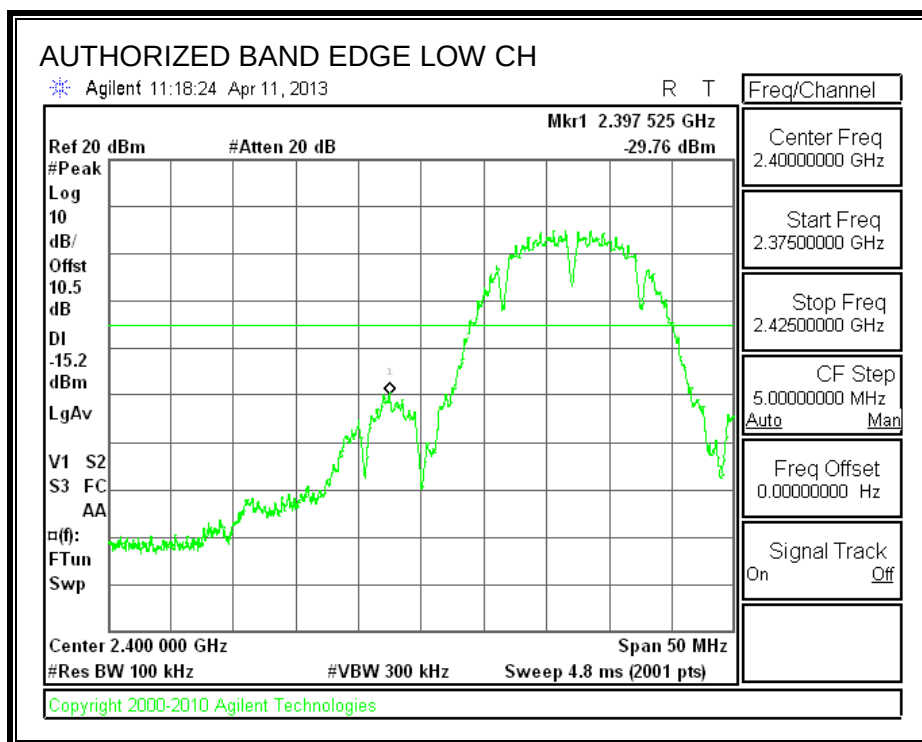
The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

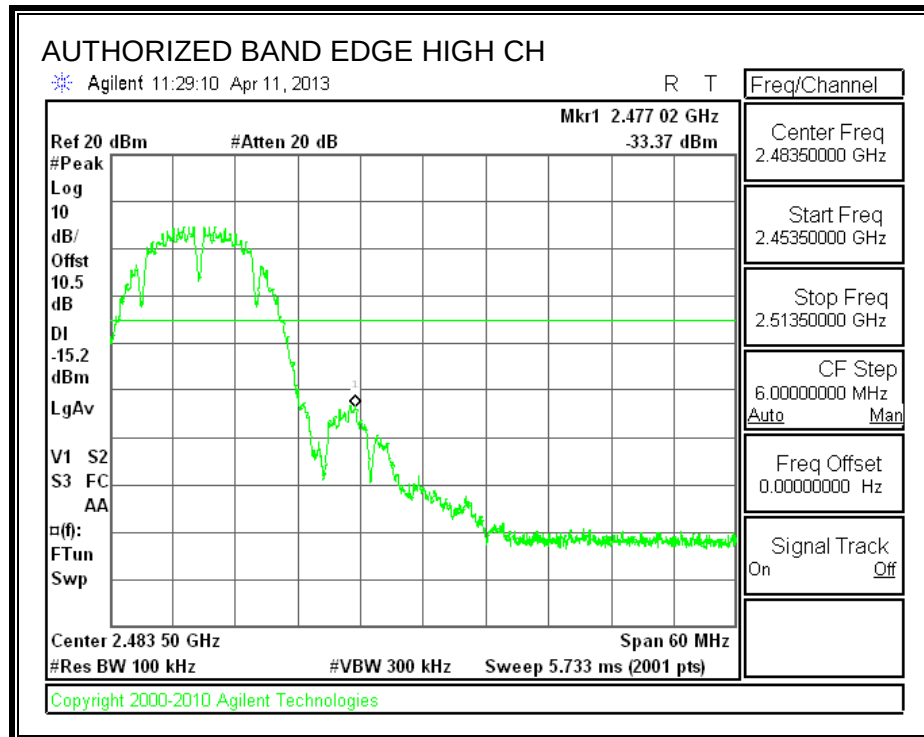
RESULTS

IN-BAND REFERENCE LEVEL

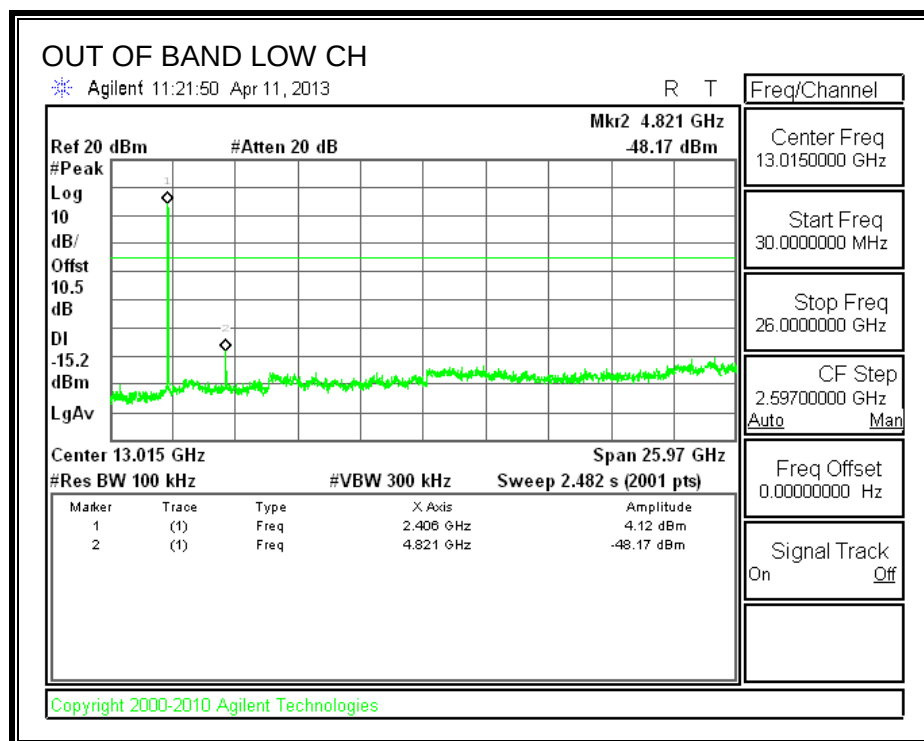


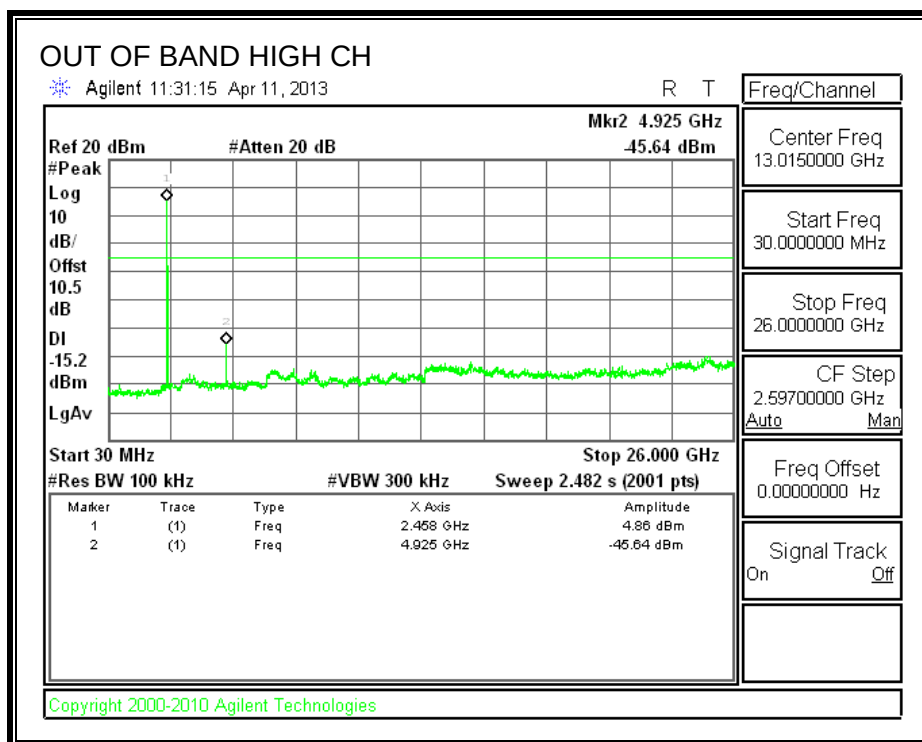
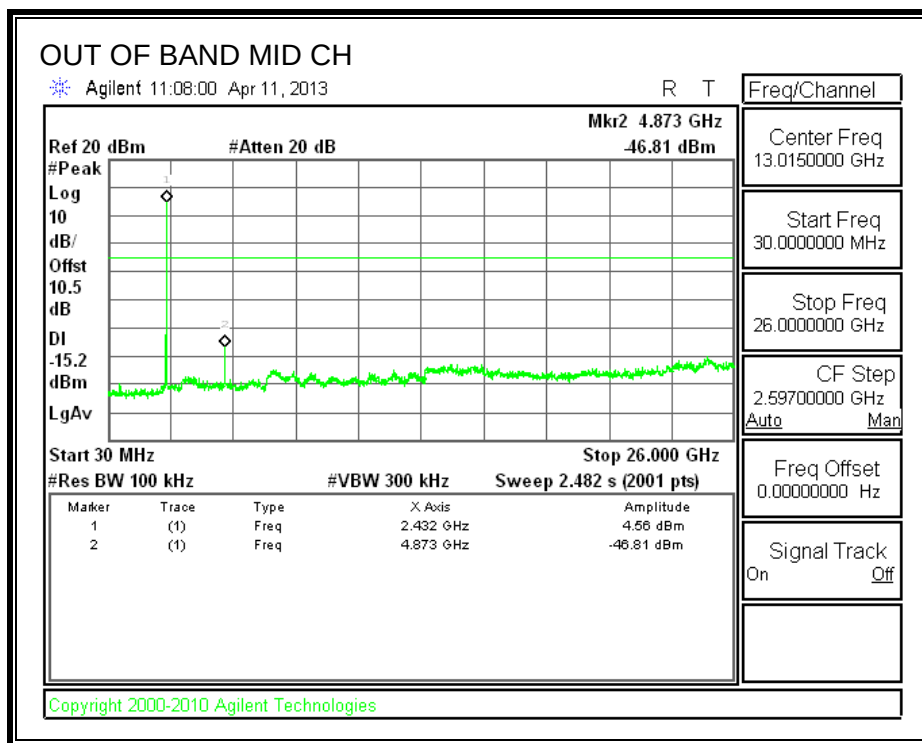
LOW CHANNEL BANDEDGE





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)

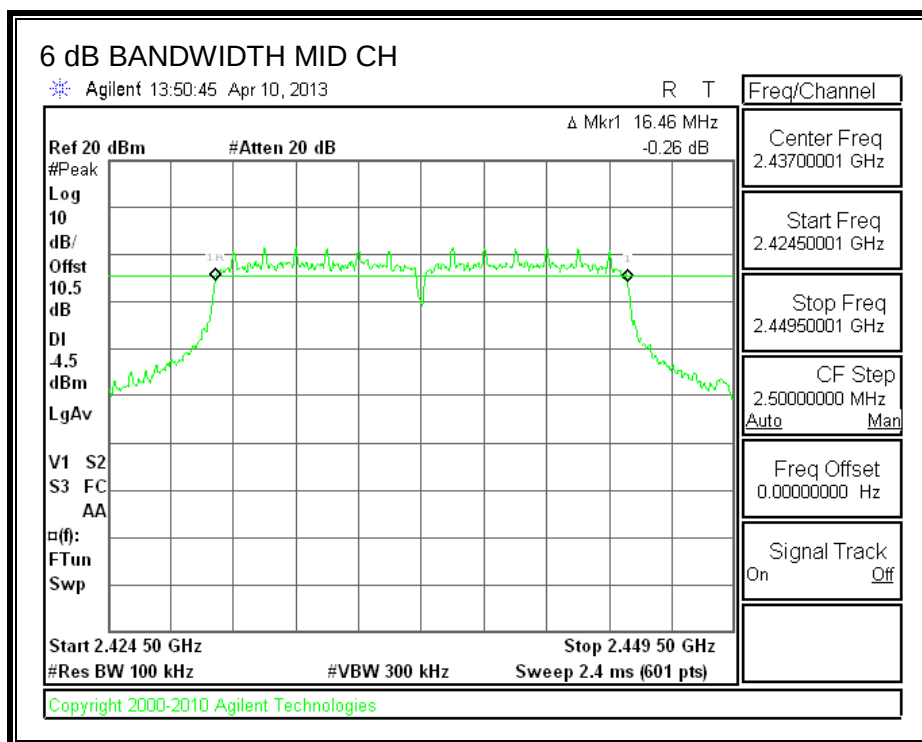
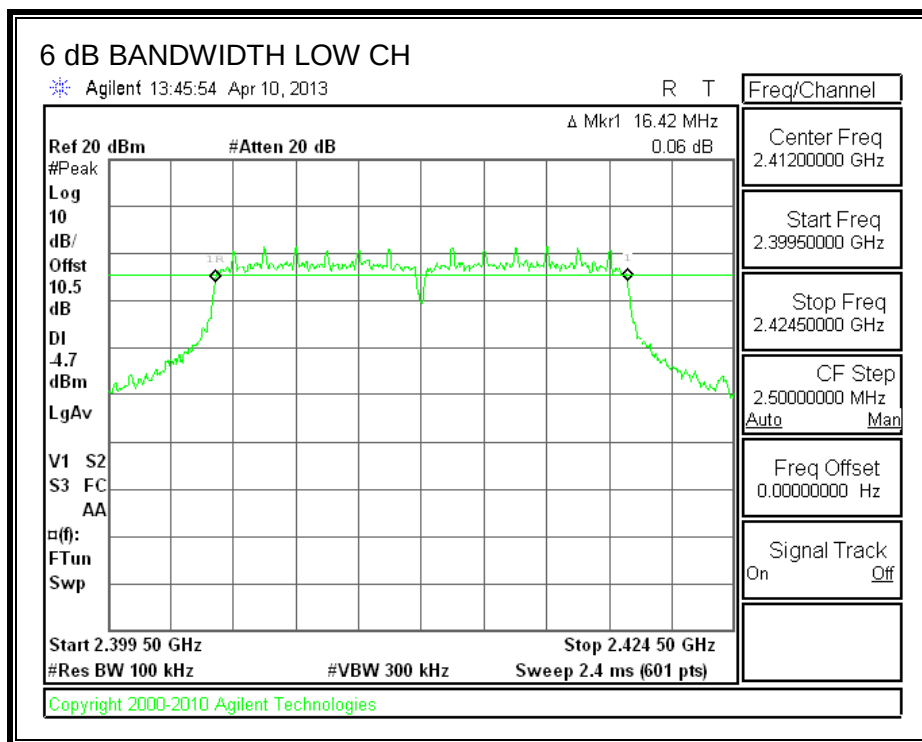
The minimum 6 dB bandwidth shall be at least 500 kHz.

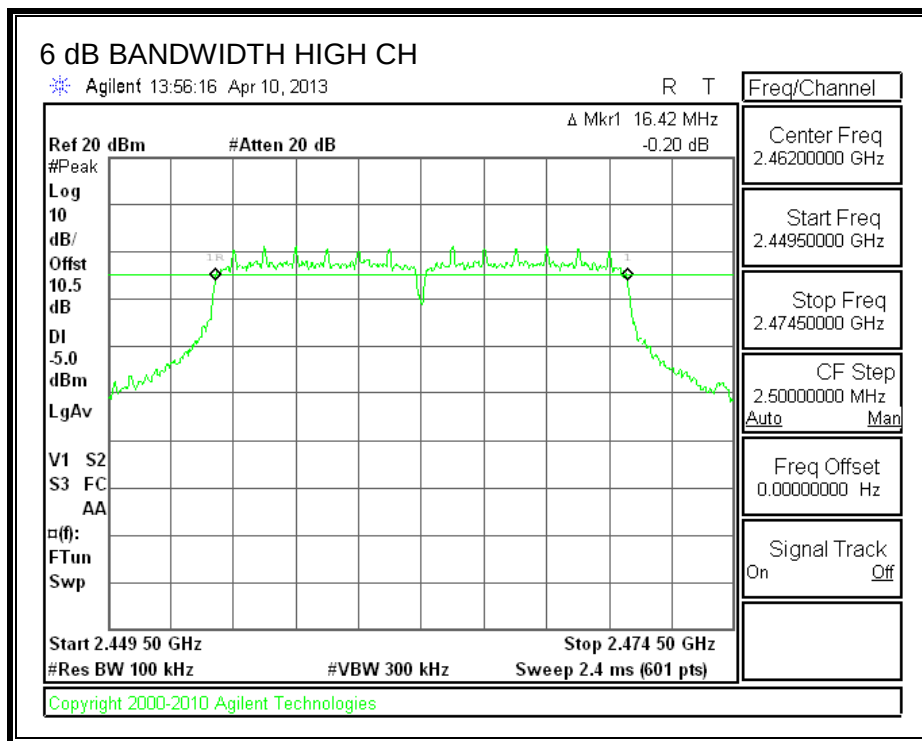
TEST PROCEDURE

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	16.420	0.5
Mid	2437	16.460	0.5
High	2462	16.420	0.5





9.2.2. 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 pad was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
Low	2412	12.05
Mid	2437	12.10
High	2462	11.86

9.2.3. 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.

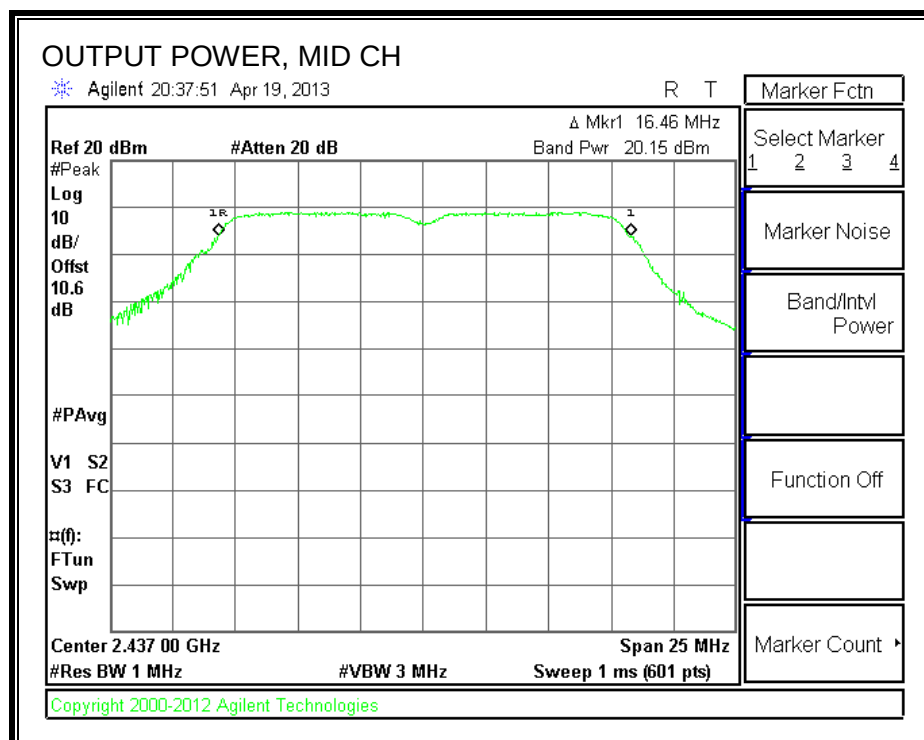
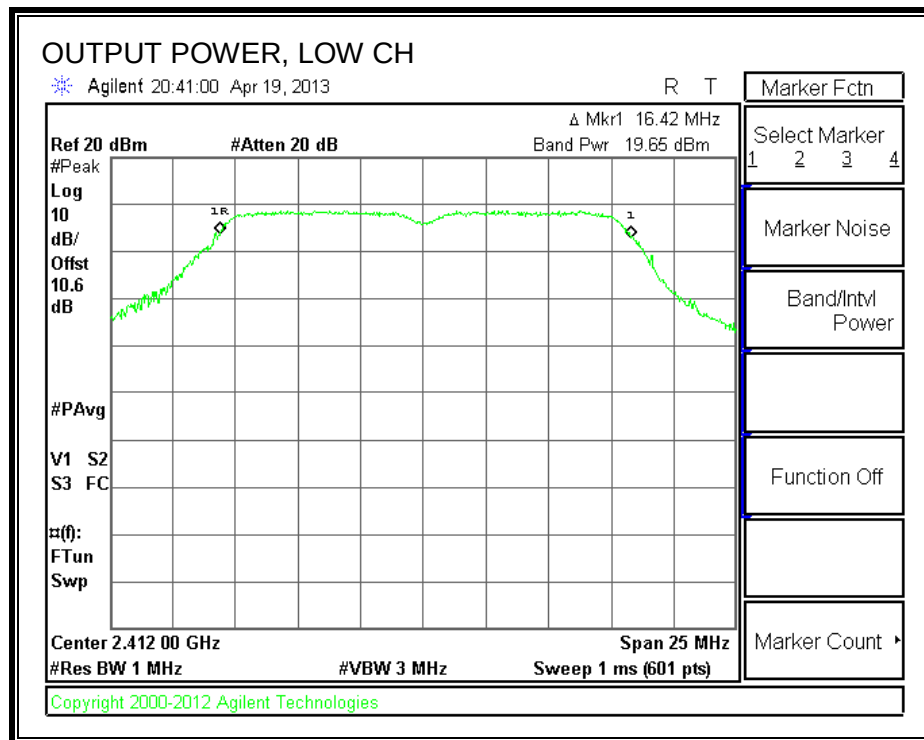
RESULTS

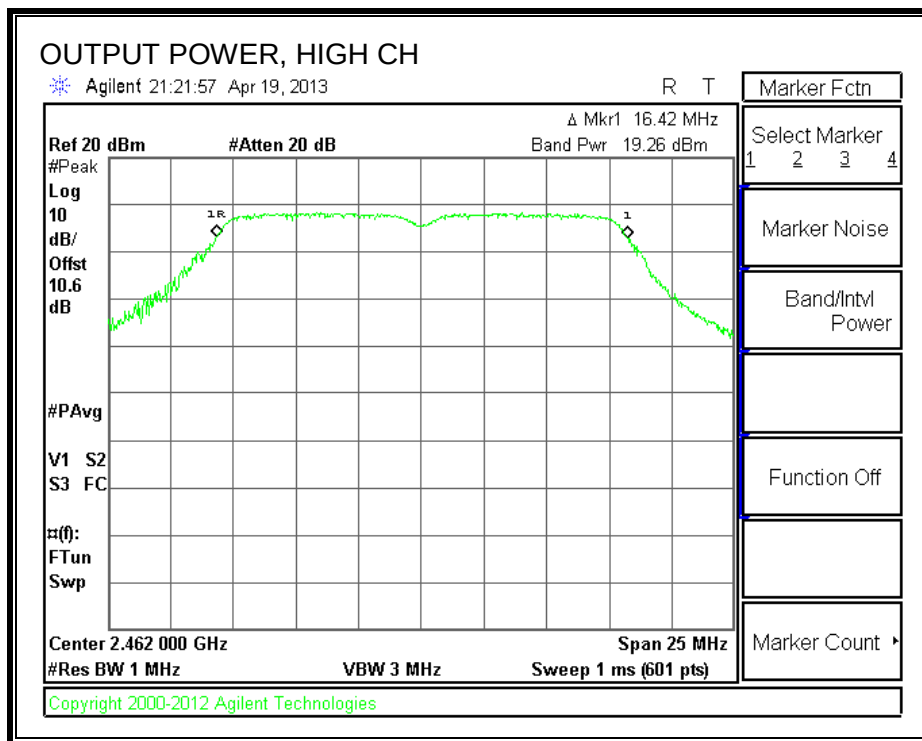
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	1.44	30.00	30	36	30.00
Mid	2437	1.44	30.00	30	36	30.00
High	2462	1.44	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	19.65	19.65	30.00	-10.35
Mid	2437	20.15	20.15	30.00	-9.85
High	2462	19.26	19.26	30.00	-10.74

OUTPUT POWER





9.2.4. PSD

LIMITS

FCC §15.247

IC RSS-210 A8.2

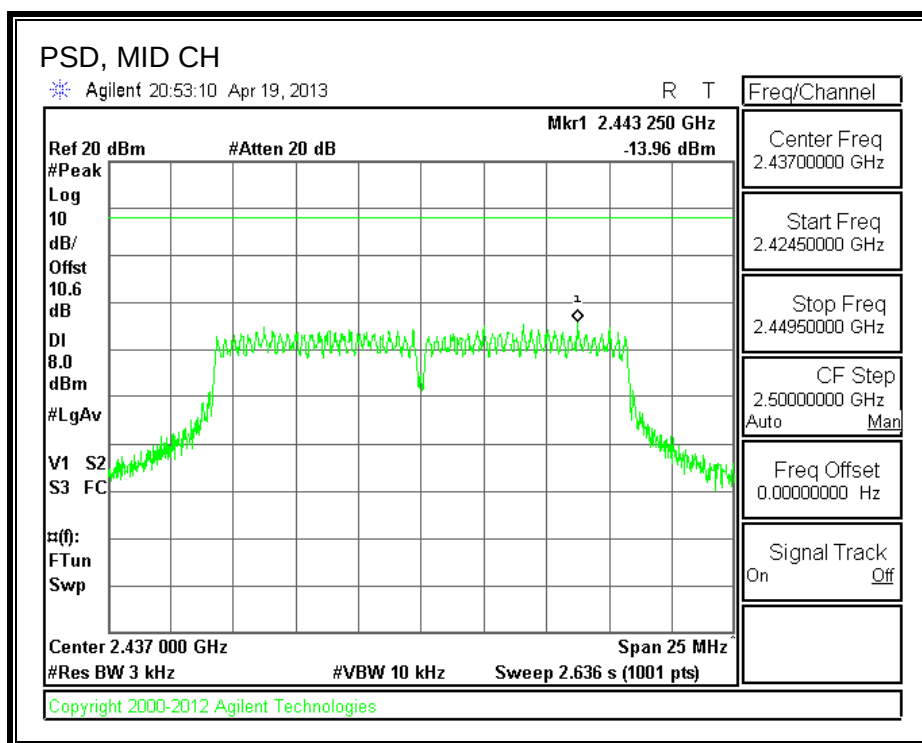
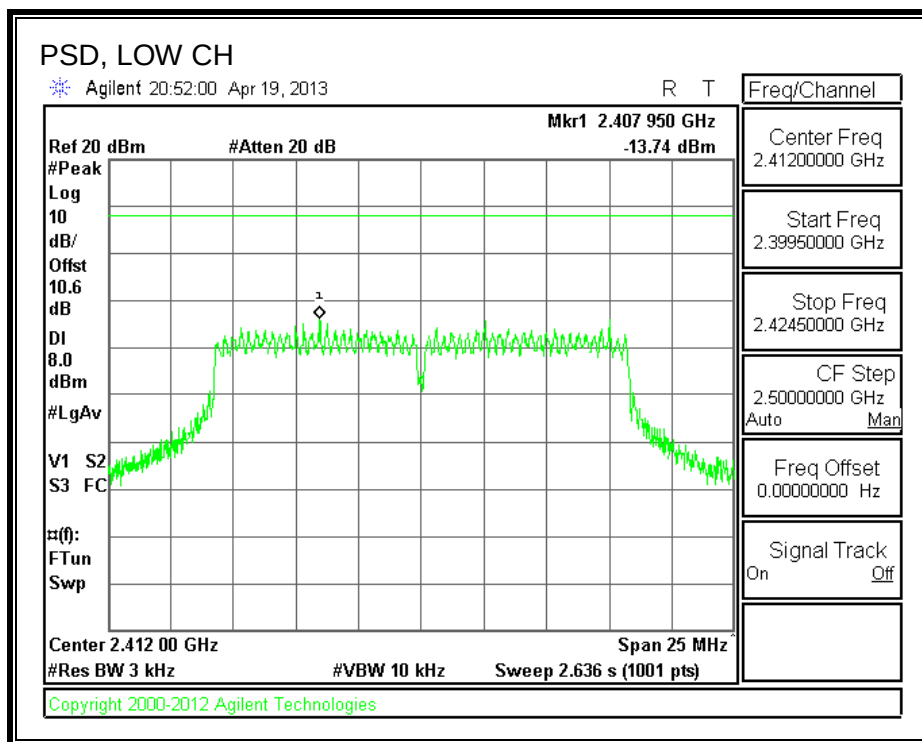
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

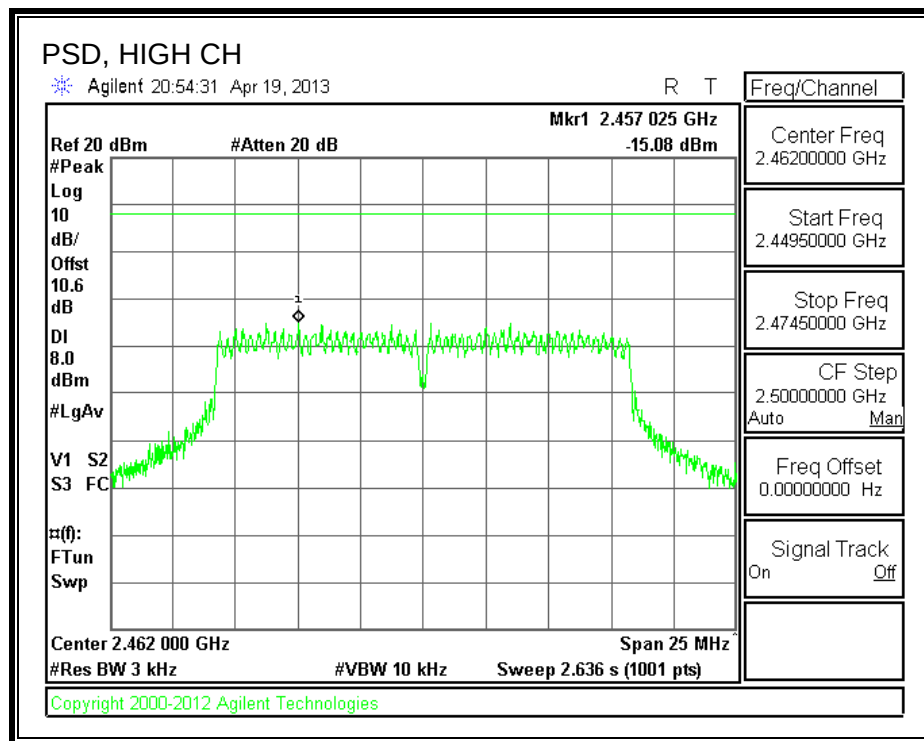
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-13.74	8.0	-21.7
Mid	2437	-13.96	8.0	-22.0
High	2462	-15.08	8.0	-23.1

PSD,





9.2.5. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

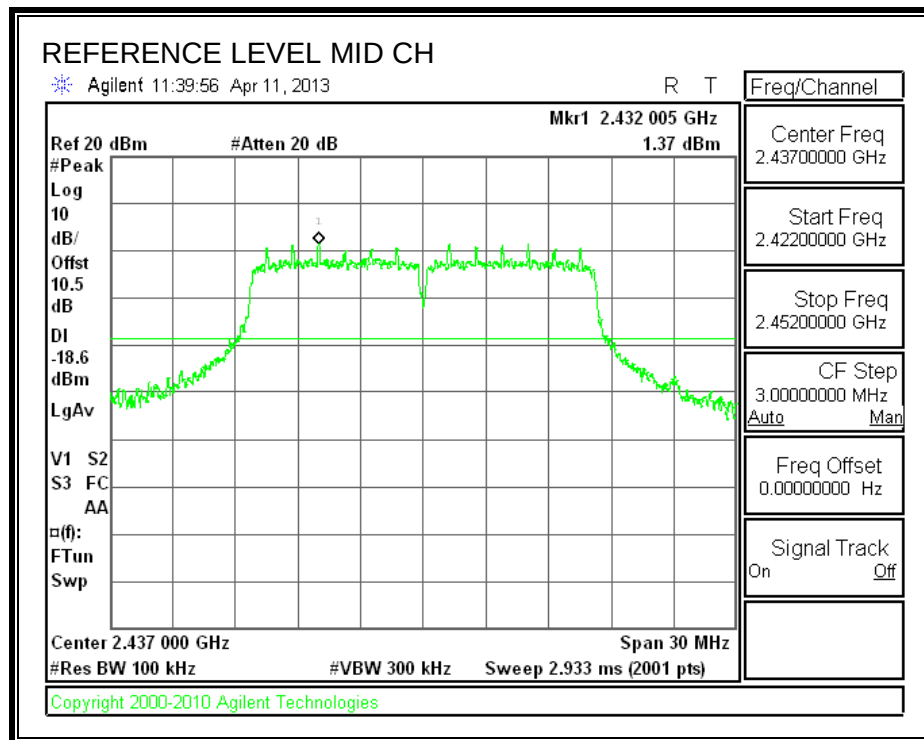
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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

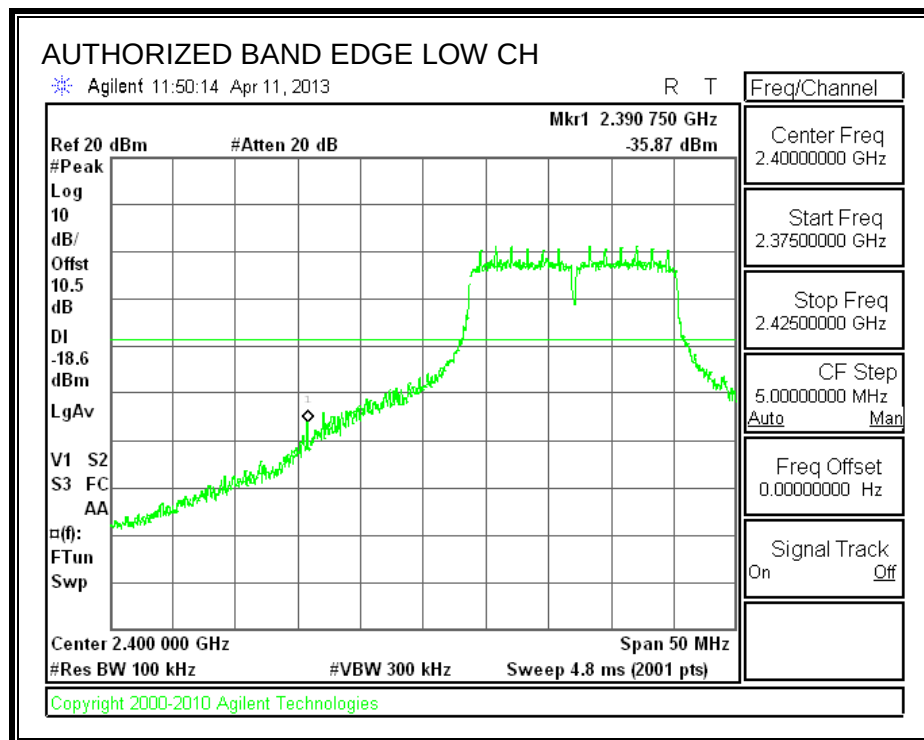
The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

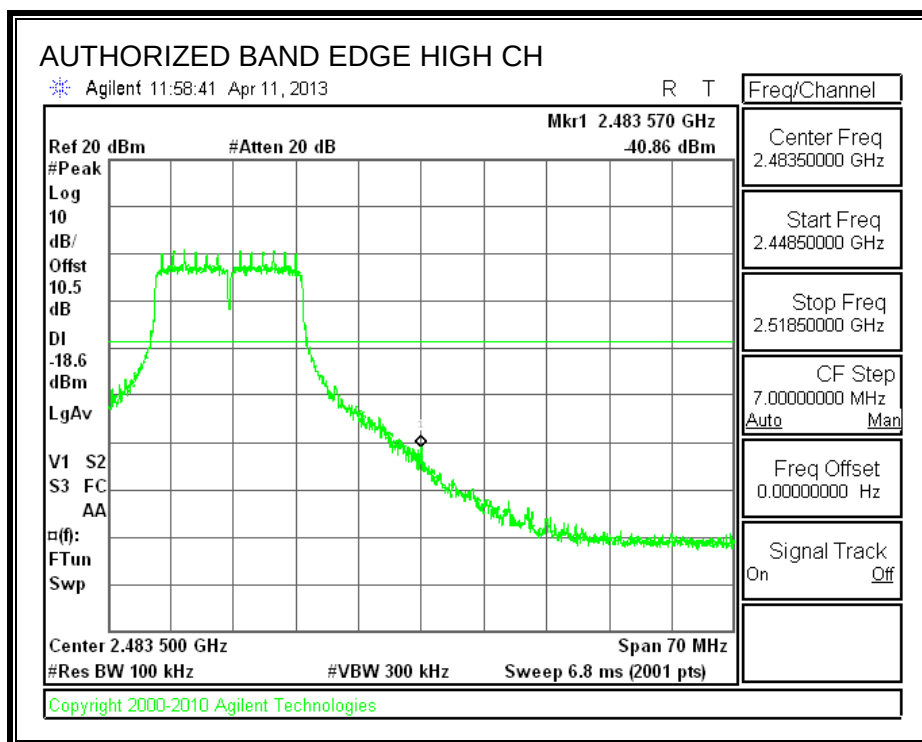
RESULTS

IN-BAND REFERENCE LEVEL

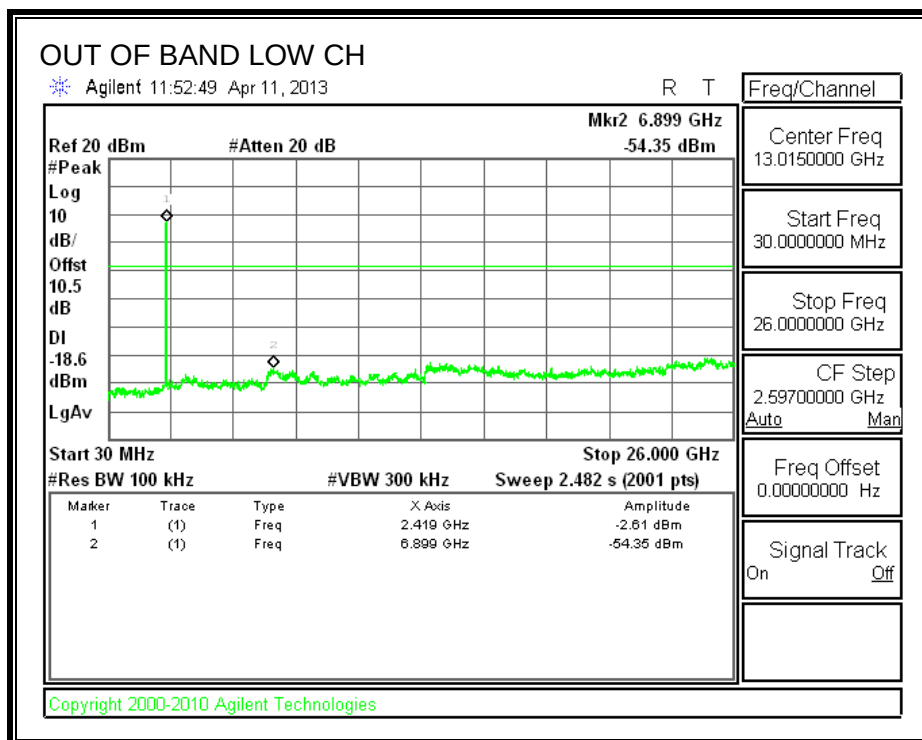


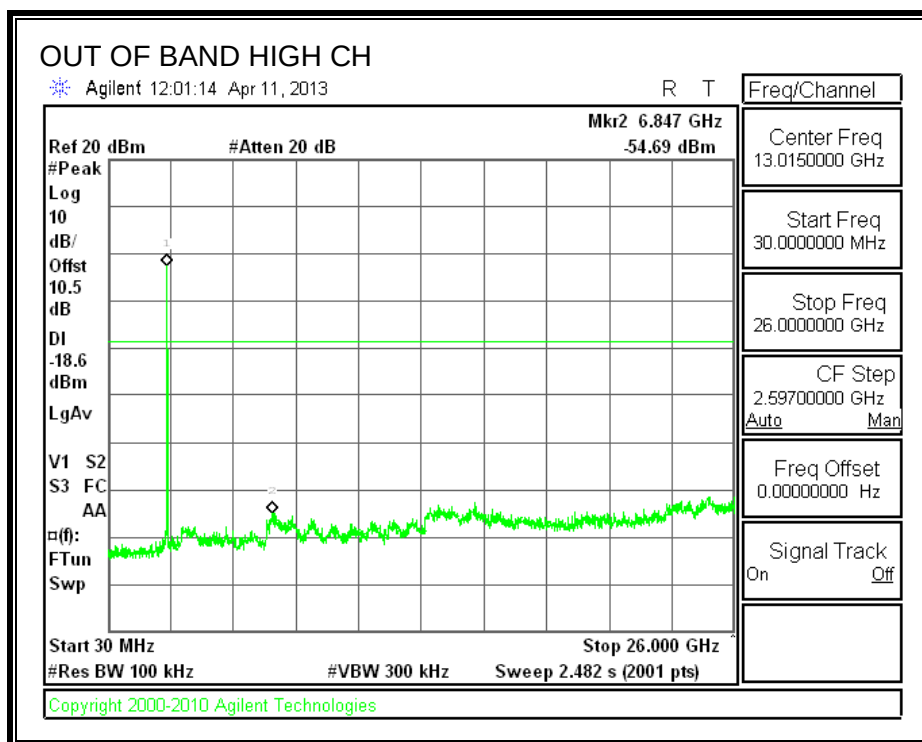
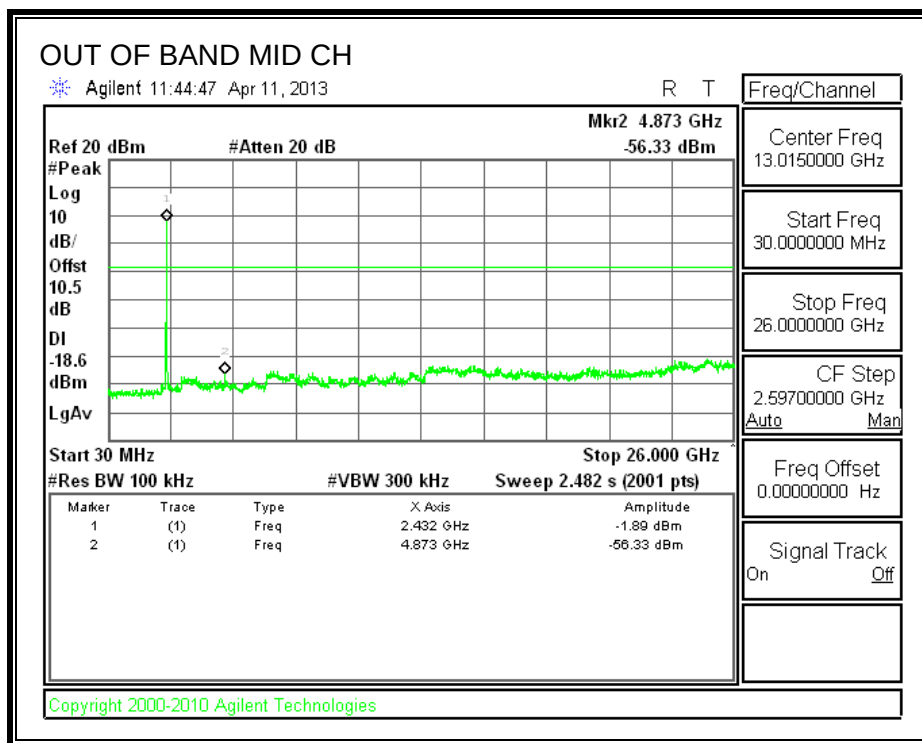
LOW CHANNEL BANDEDGE





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)

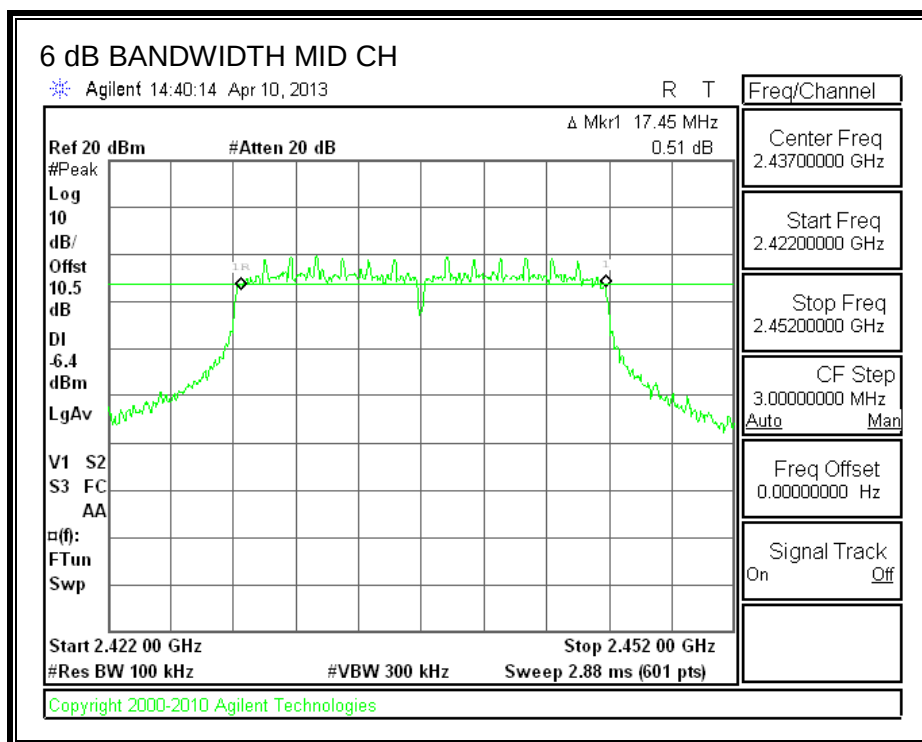
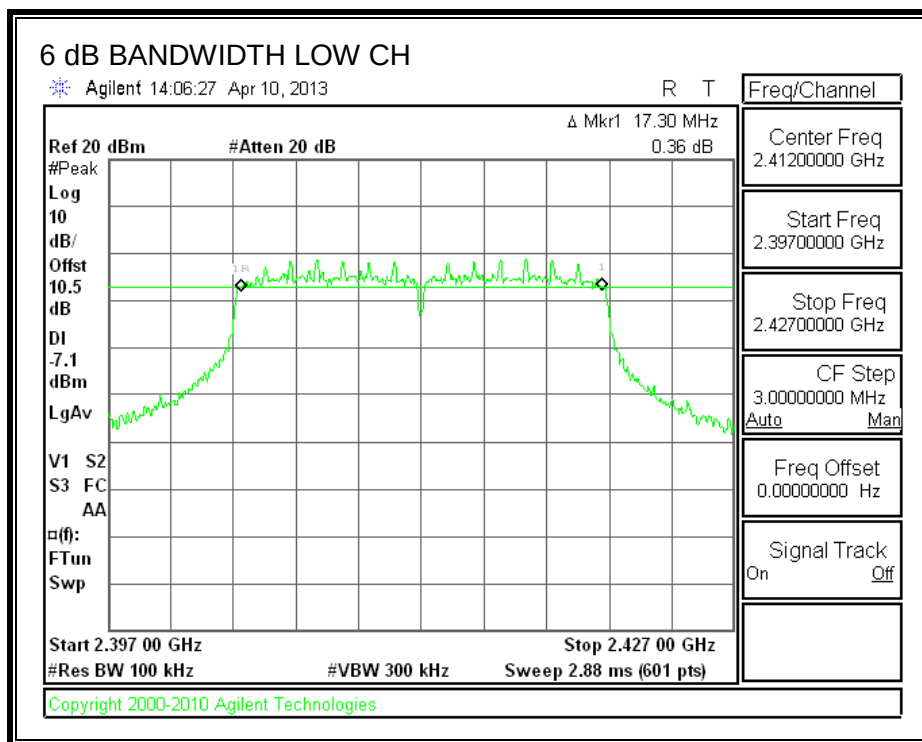
The minimum 6 dB bandwidth shall be at least 500 kHz.

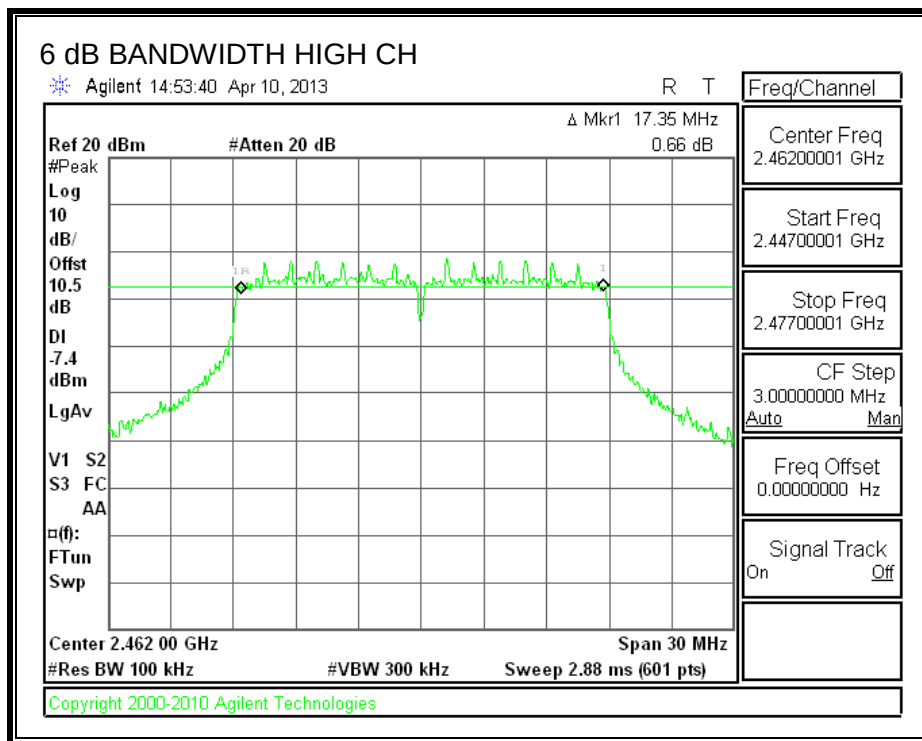
TEST PROCEDURE

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	17.30	0.5
Mid	2437	17.45	0.5
High	2462	17.35	0.5





9.3.2. 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 pad was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
Low	2412	9.51
Mid	2437	10.11
High	2462	9.28

9.3.3. 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

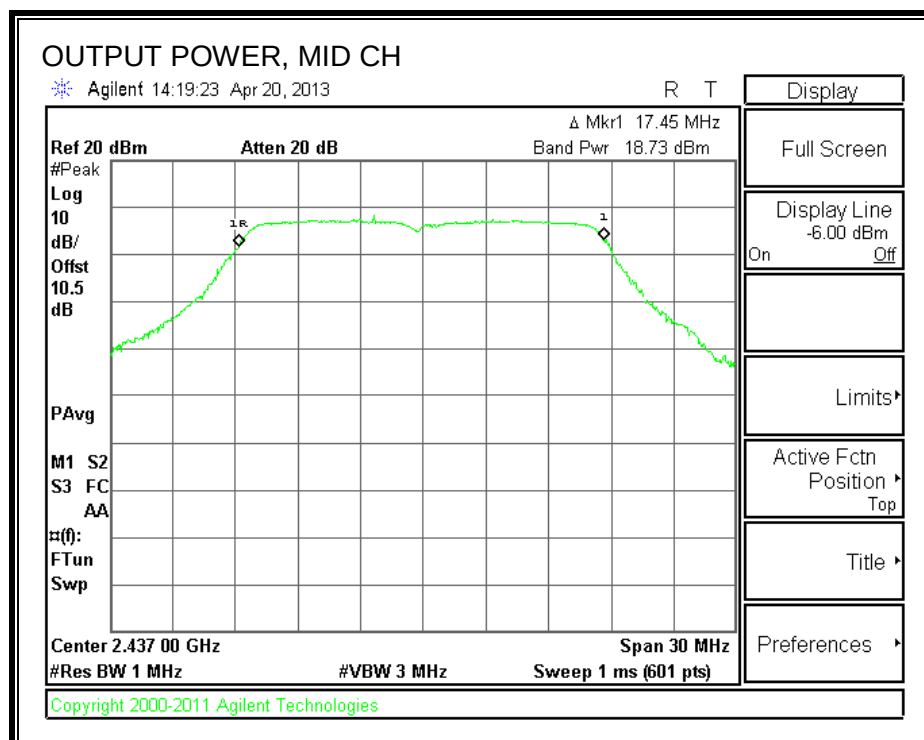
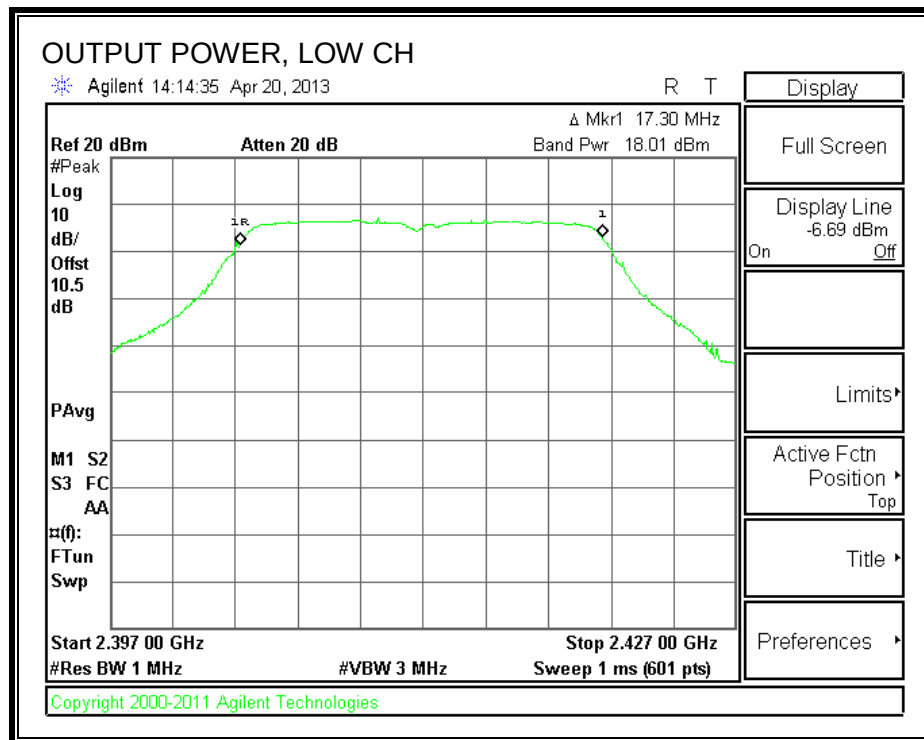
Limits

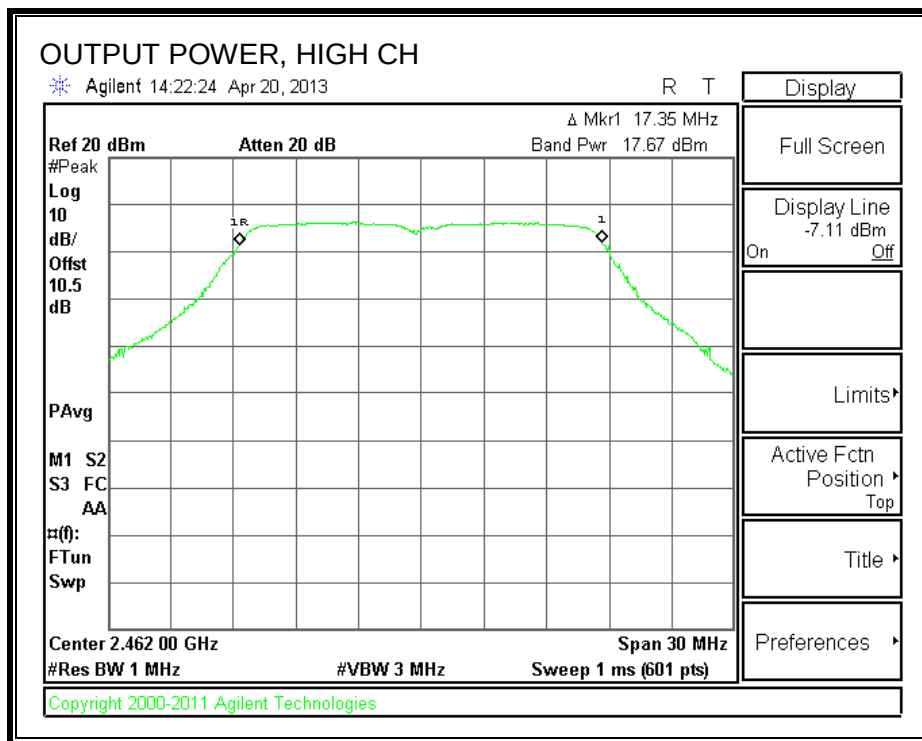
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	1.44	30.00	30	36	30.00
Mid	2437	1.44	30.00	30	36	30.00
High	2462	1.44	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	18.01	18.01	30.00	-11.99
Mid	2437	18.73	18.73	30.00	-11.27
High	2462	17.67	17.67	30.00	-12.33

OUTPUT POWER





9.3.4. PSD

LIMITS

FCC §15.247

IC RSS-210 A8.2

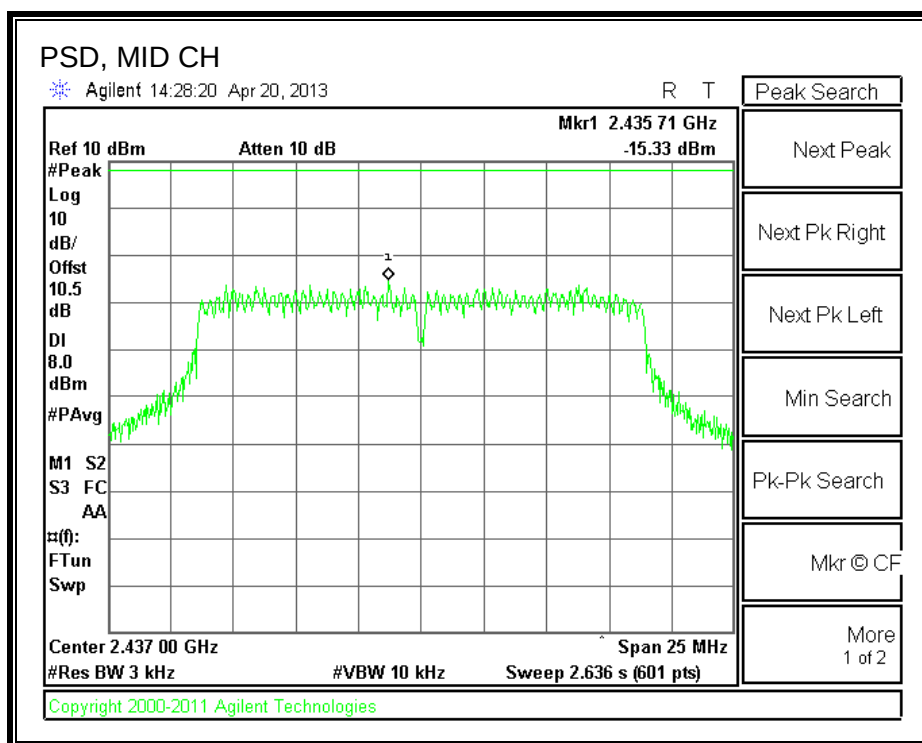
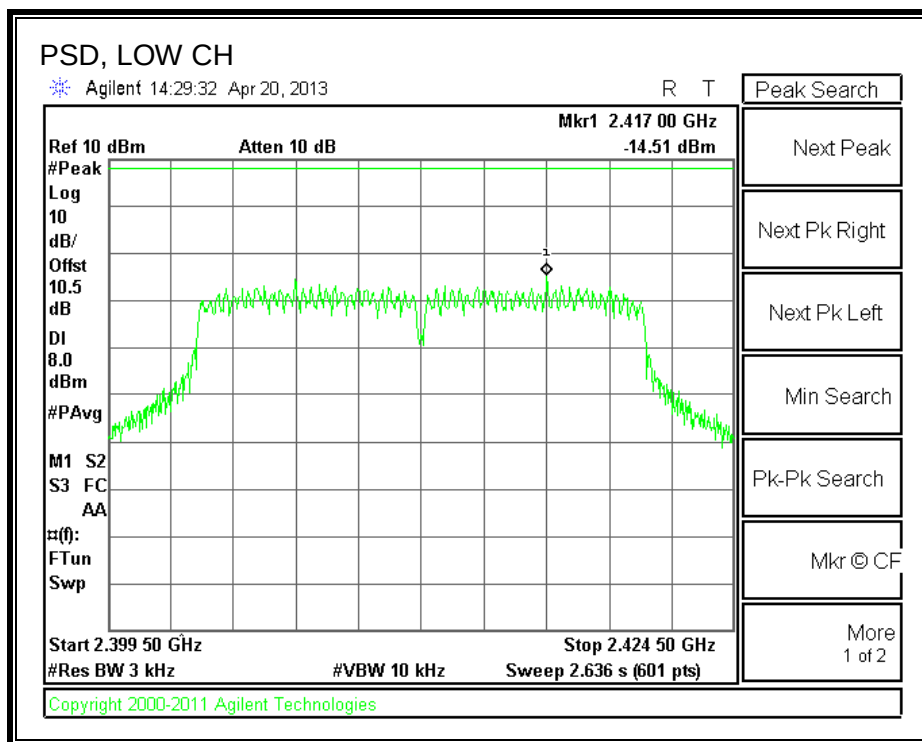
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

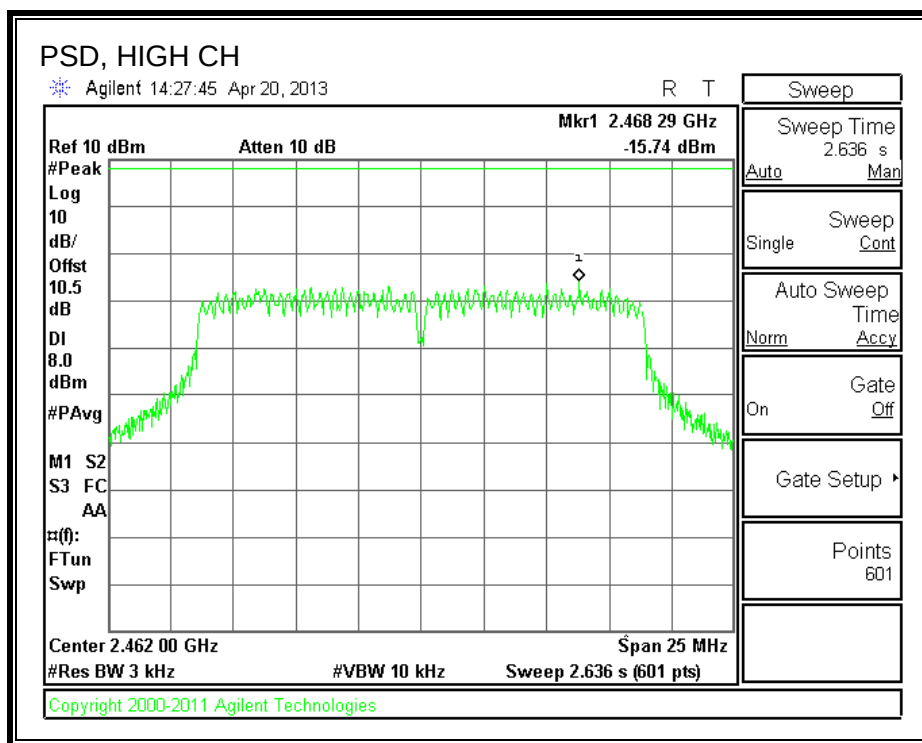
RESULTS

PSD Results

Channel	Frequency (MHz)	Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-14.51	8.0	-22.5
Mid	2437	-15.33	8.0	-23.3
High	2462	-15.74	8.0	-23.7

PSD





9.3.5. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

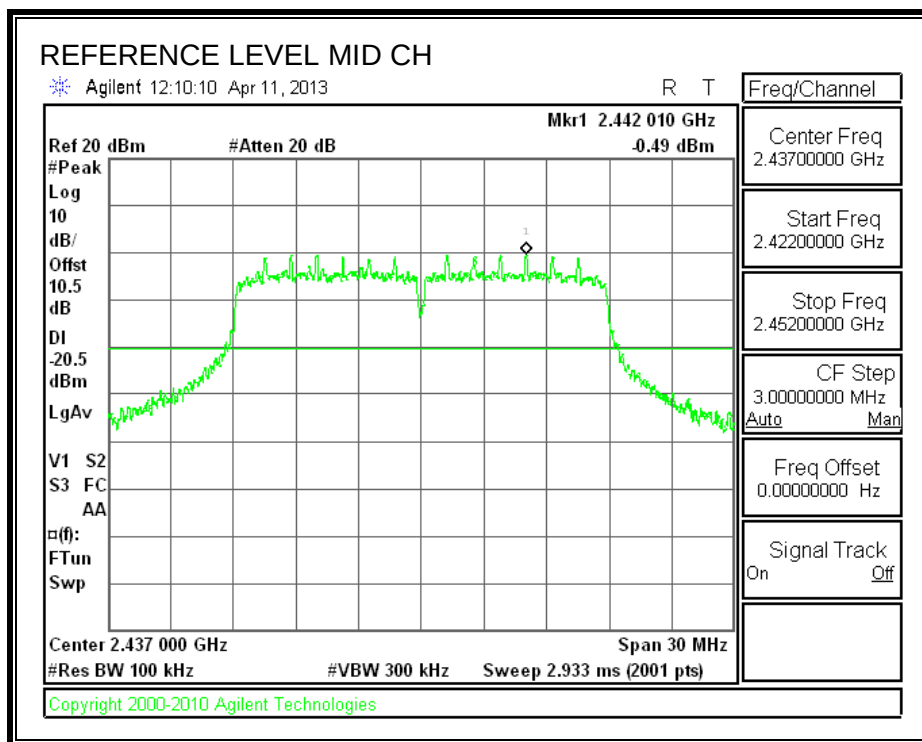
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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

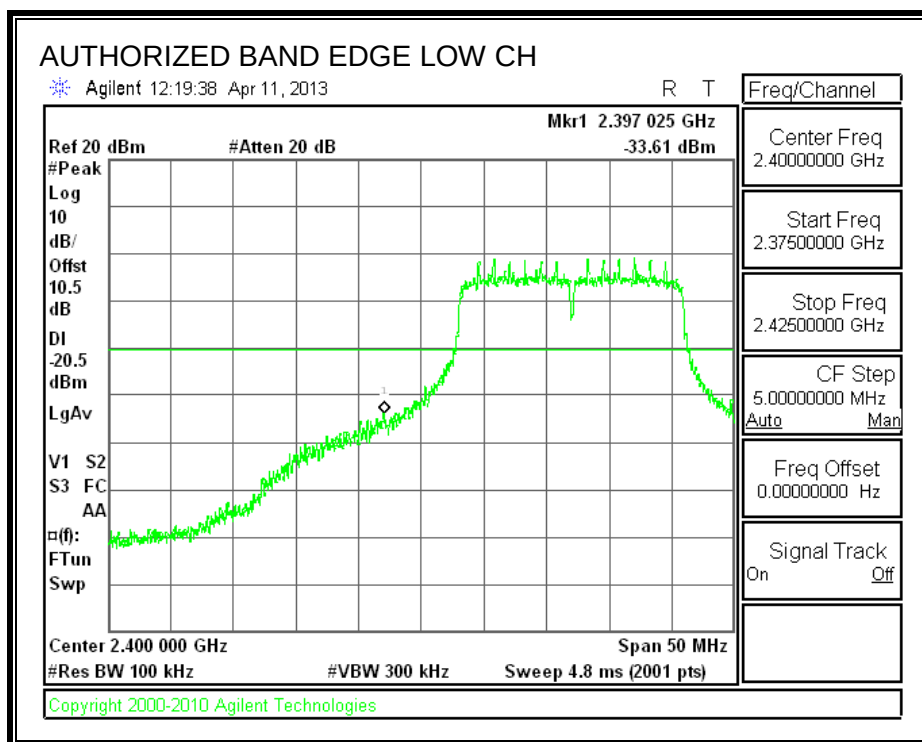
The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

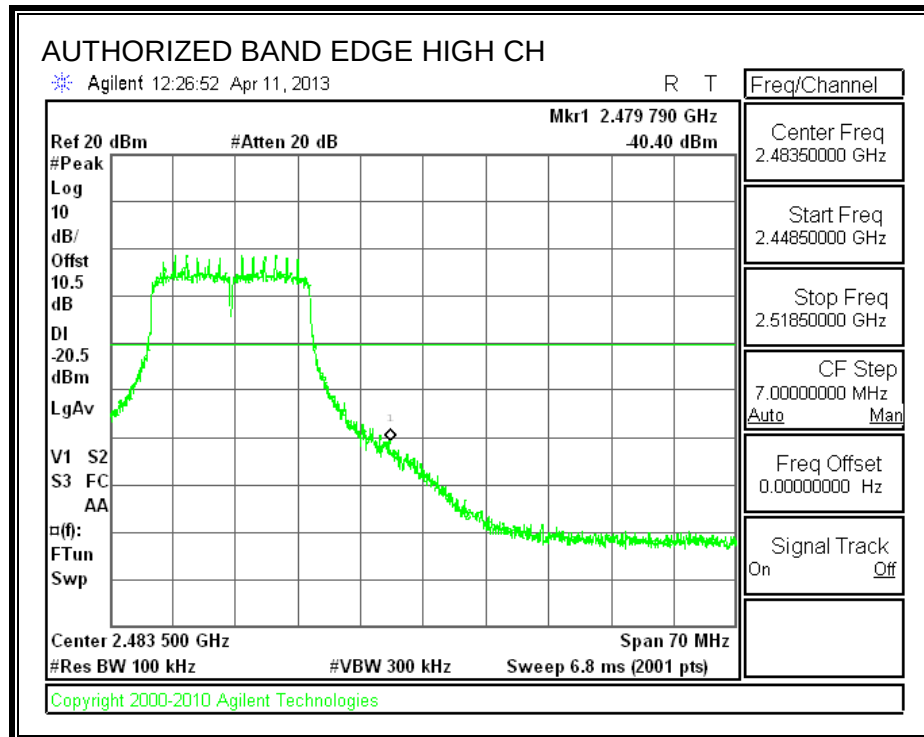
RESULTS

IN-BAND REFERENCE LEVEL

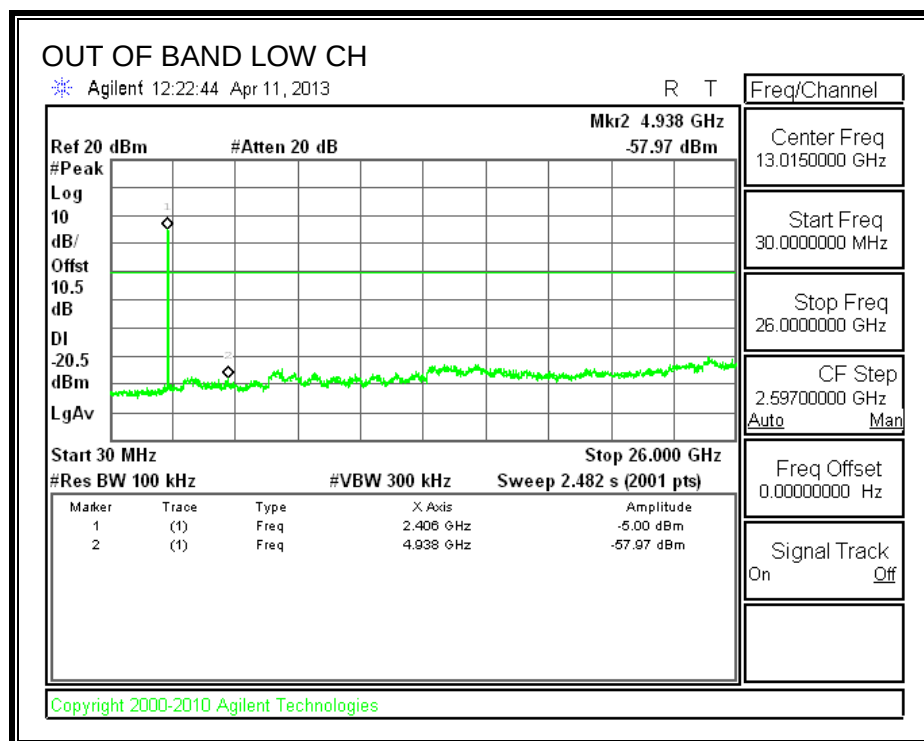


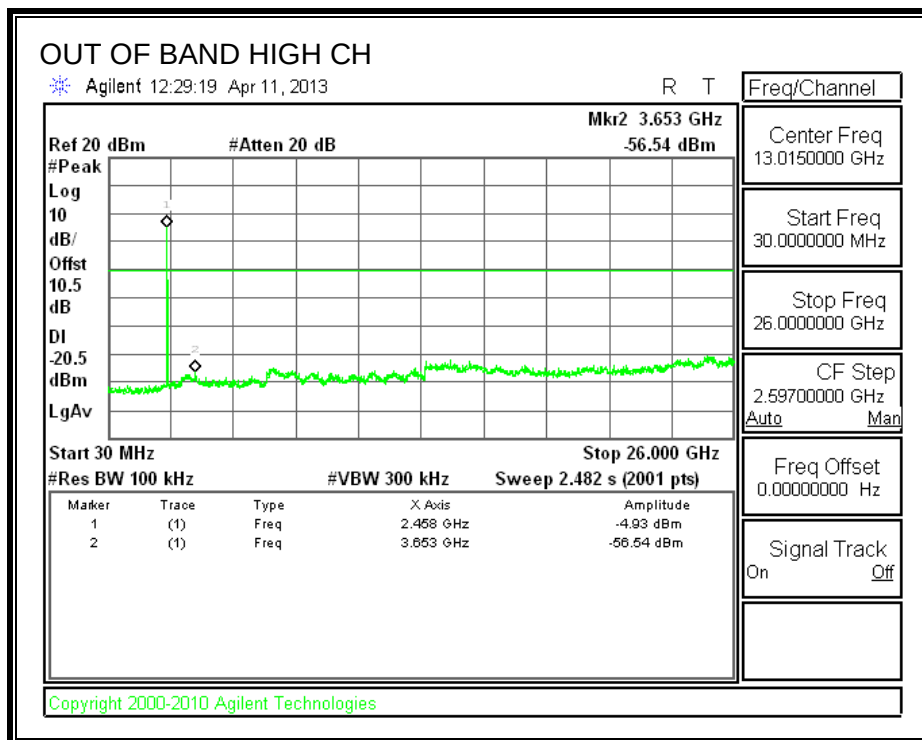
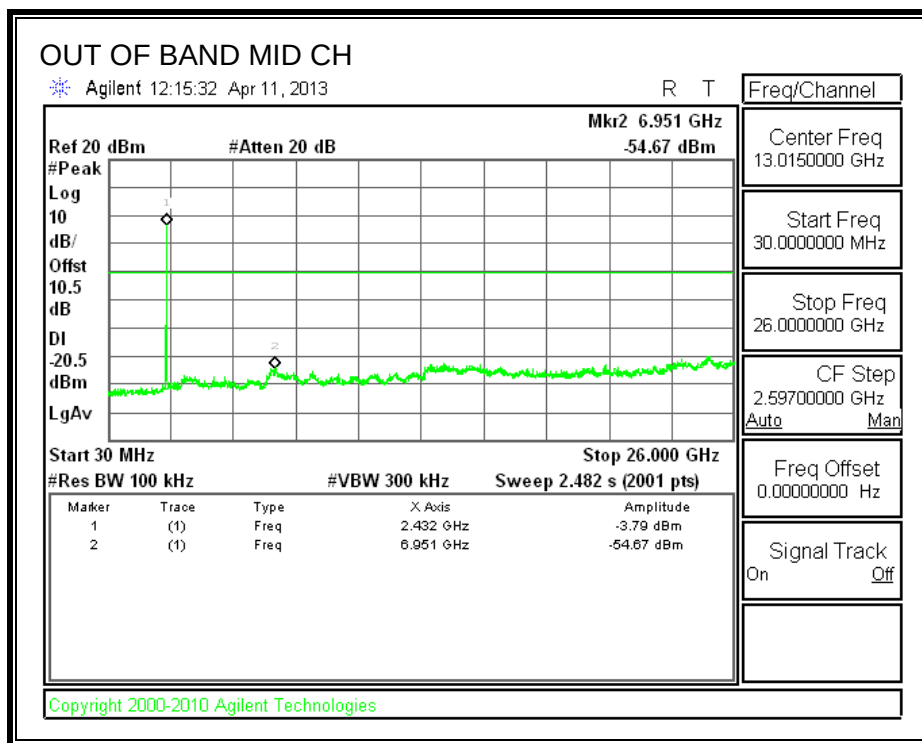
LOW CHANNEL BANDEDGE





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.

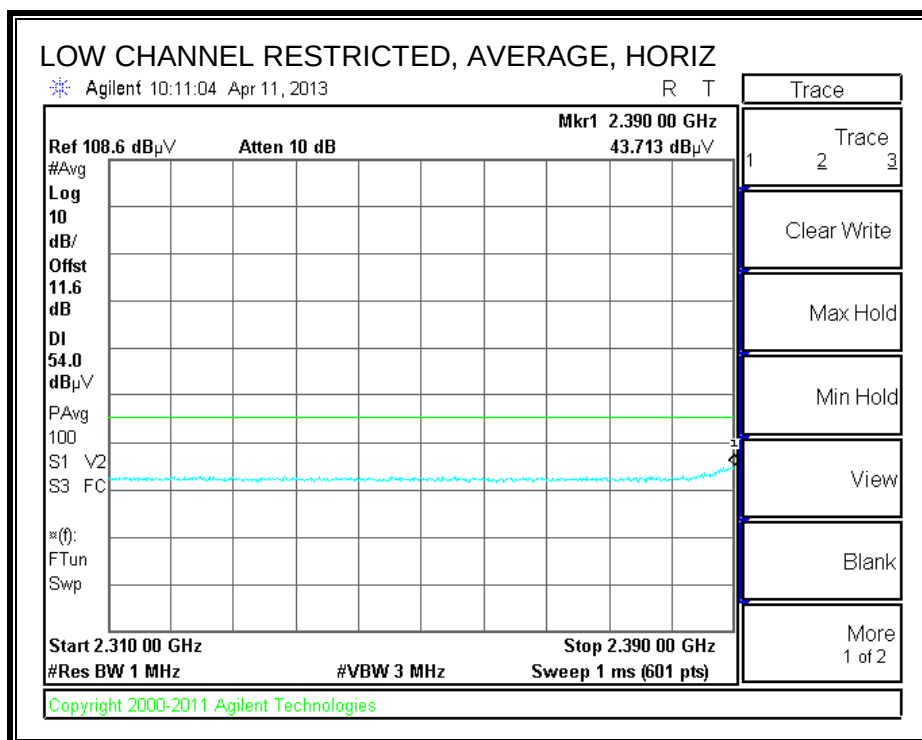
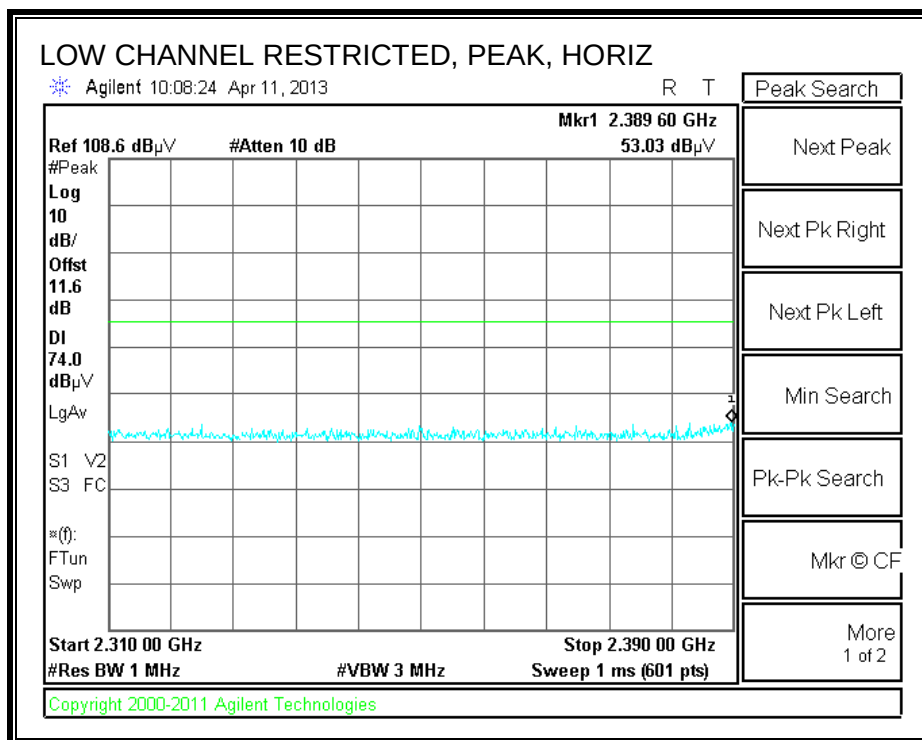
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

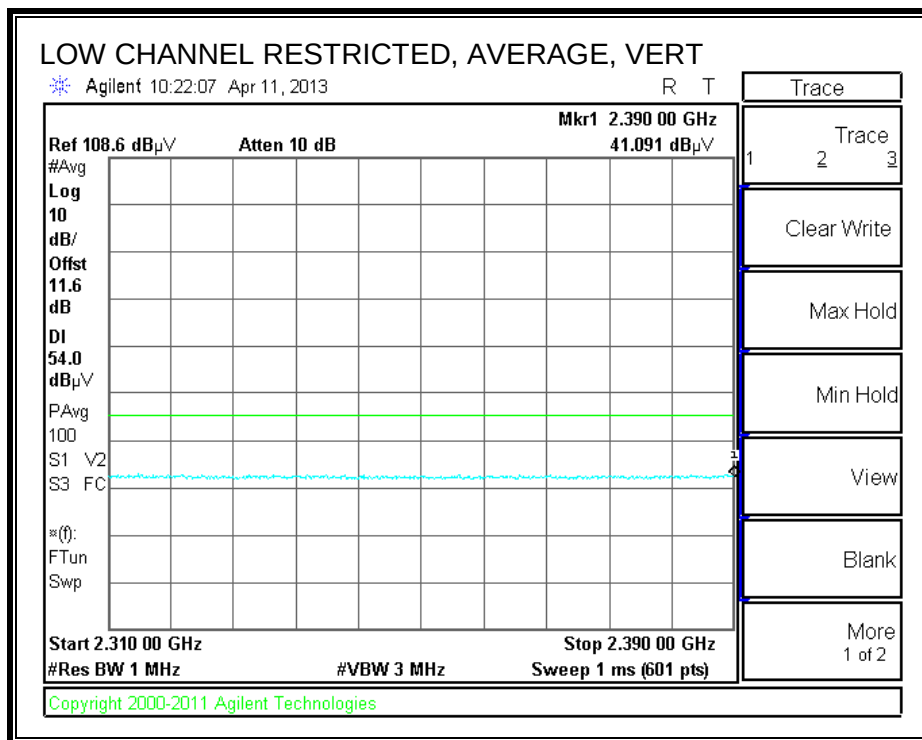
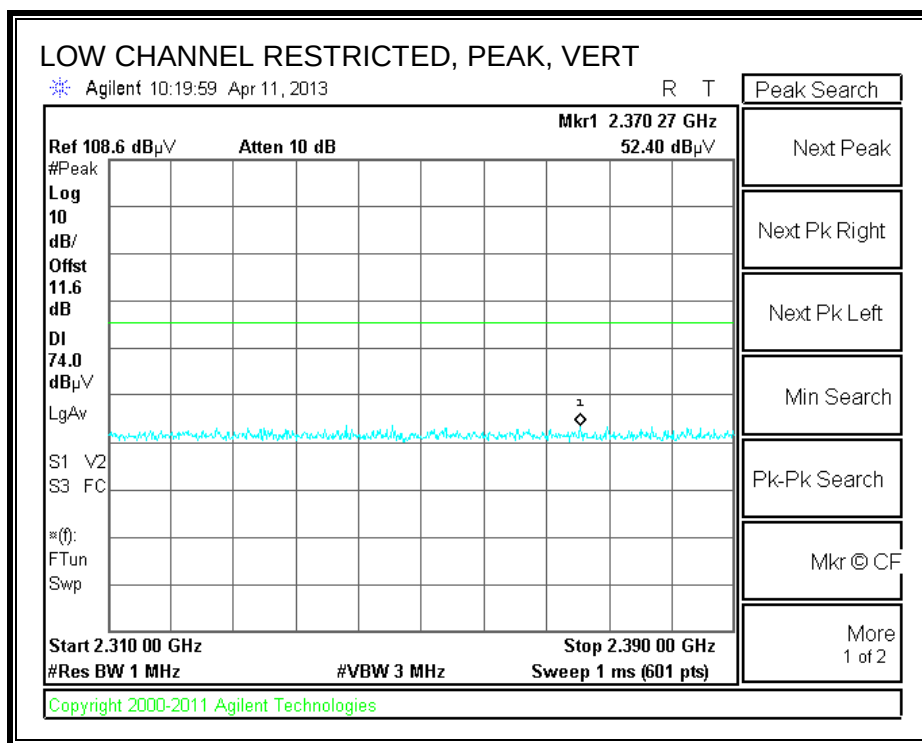
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

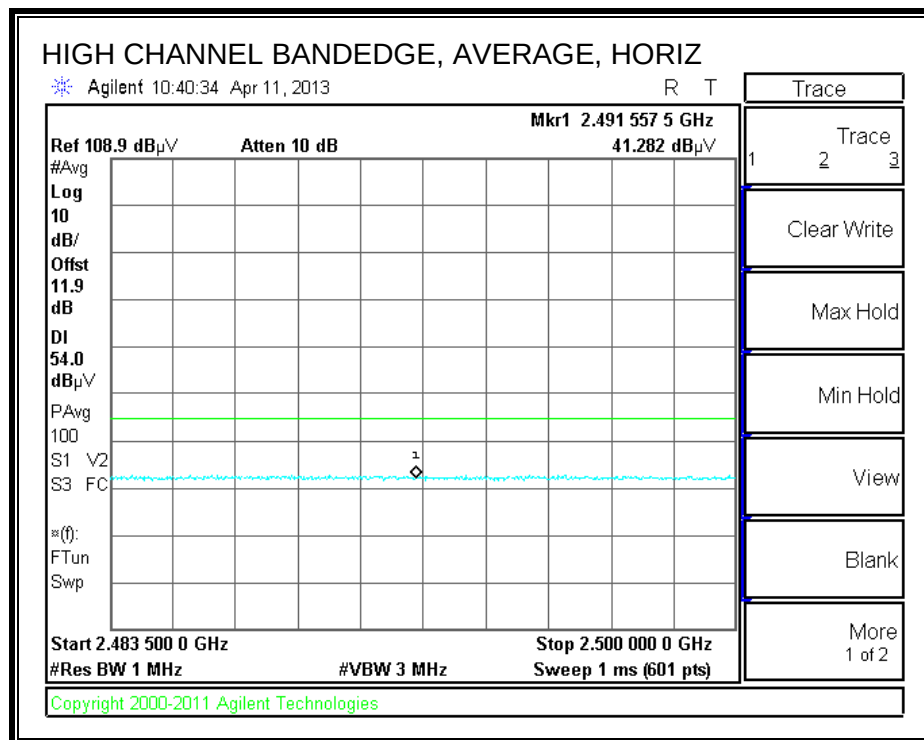
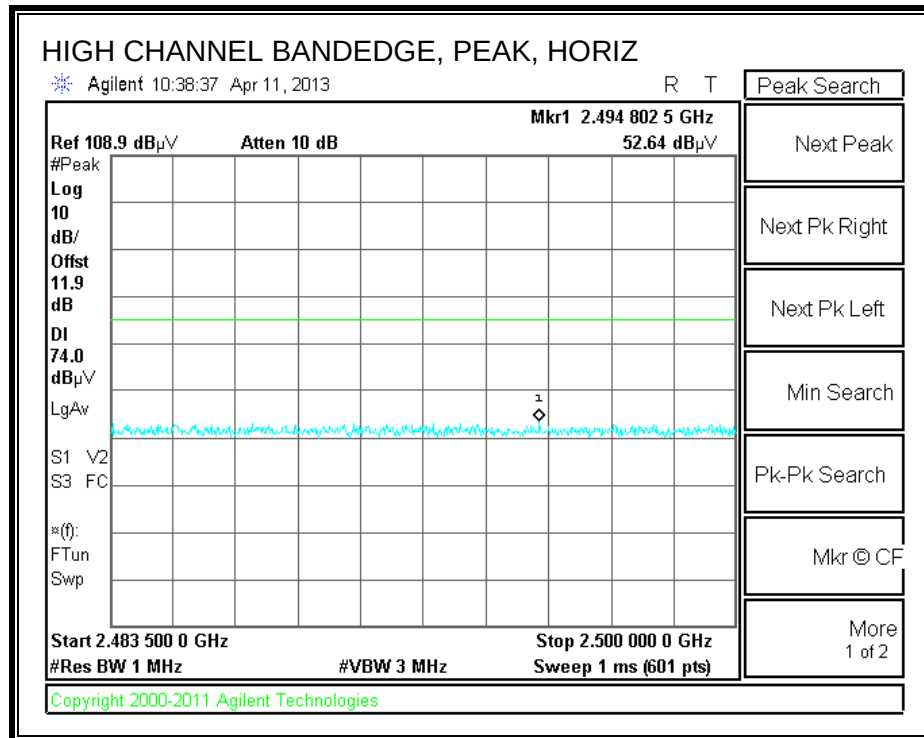
10.2. TRANSMITTER ABOVE 1 GHz

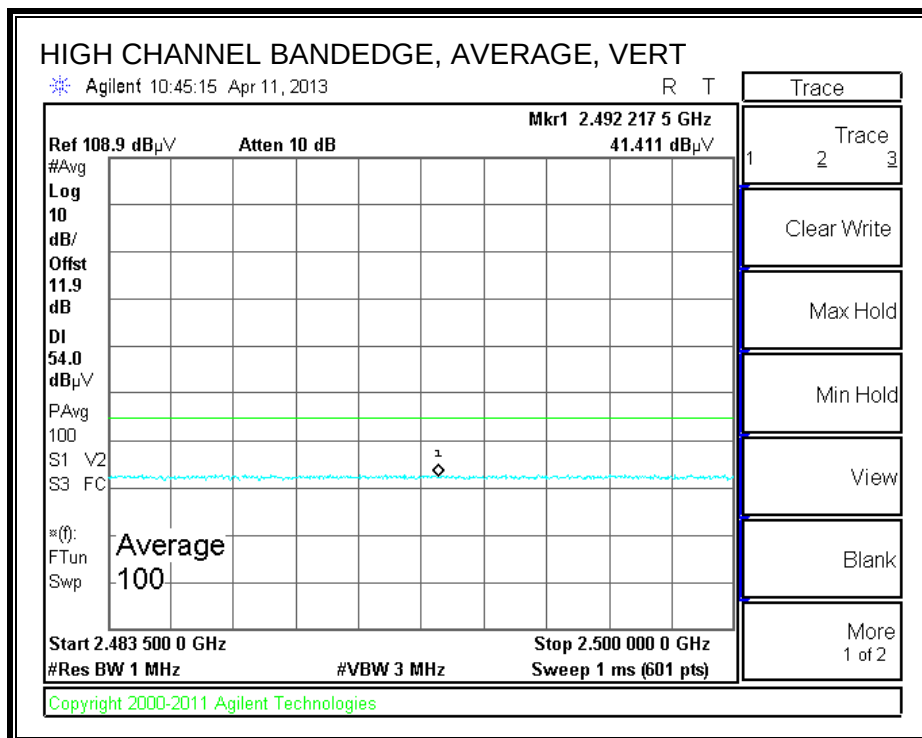
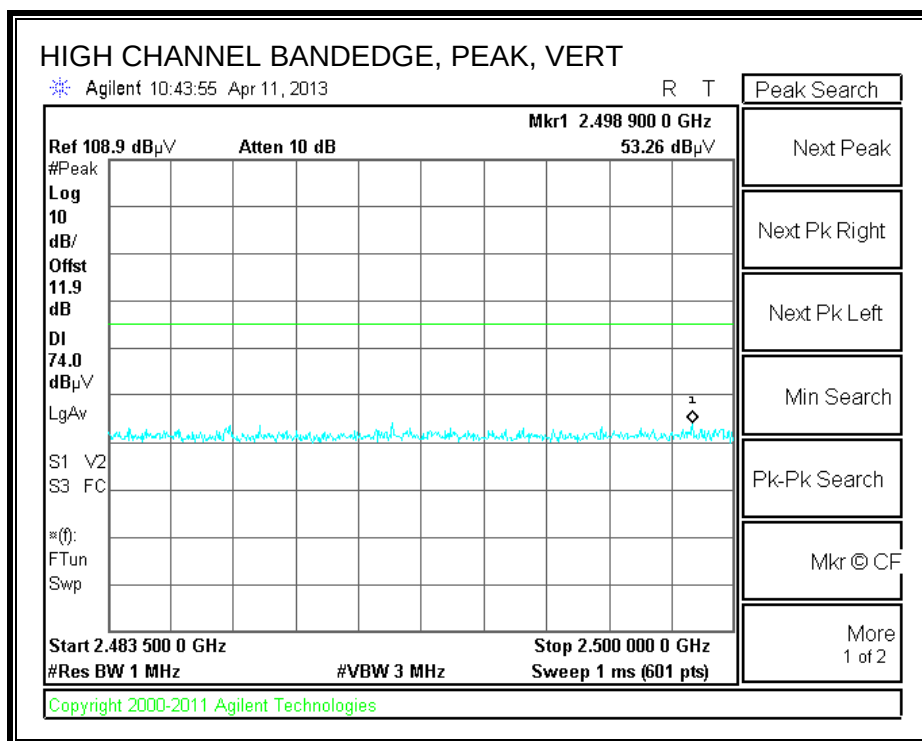
10.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

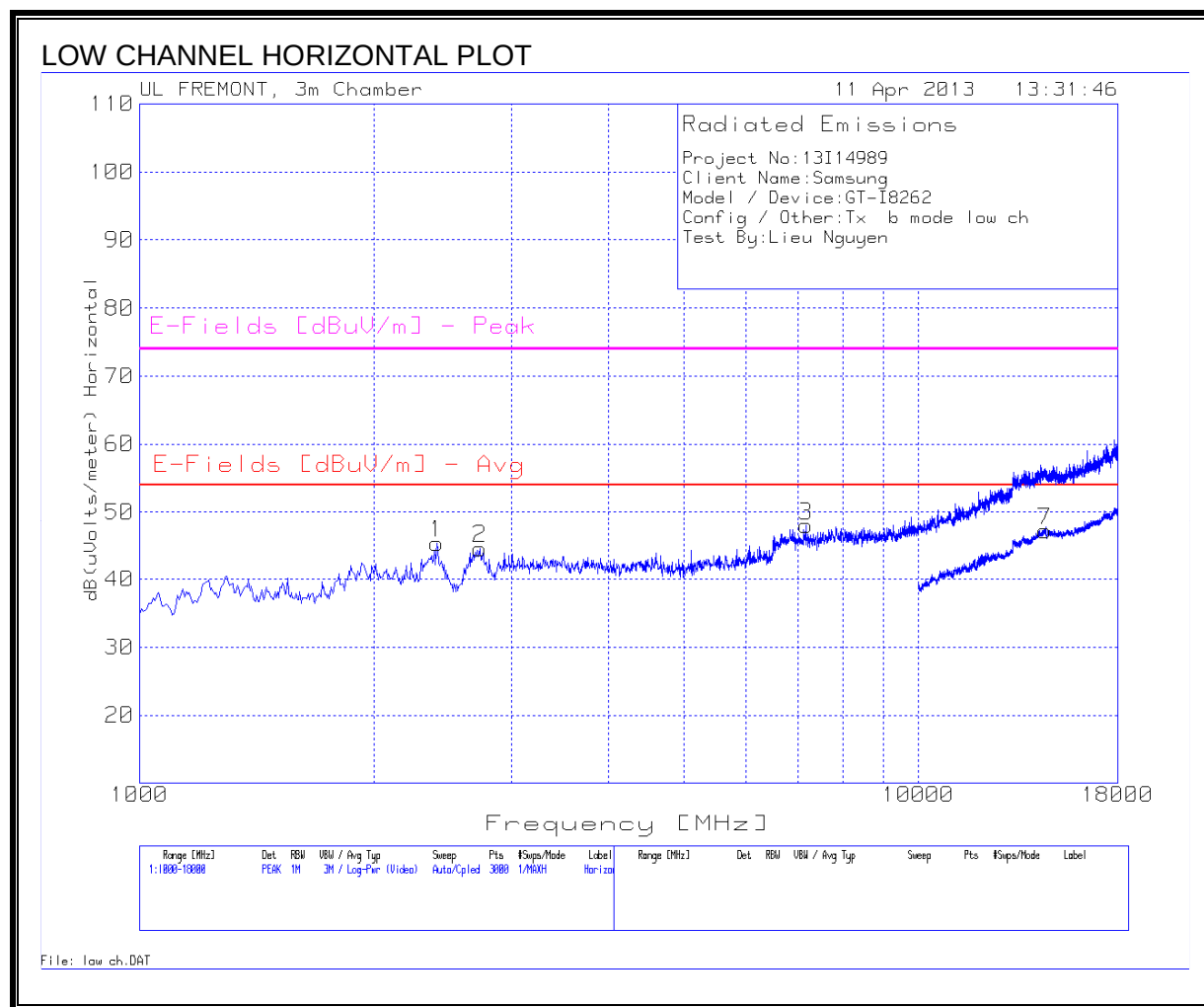
RESTRICTED BANDEDGE (LOW CHANNEL)

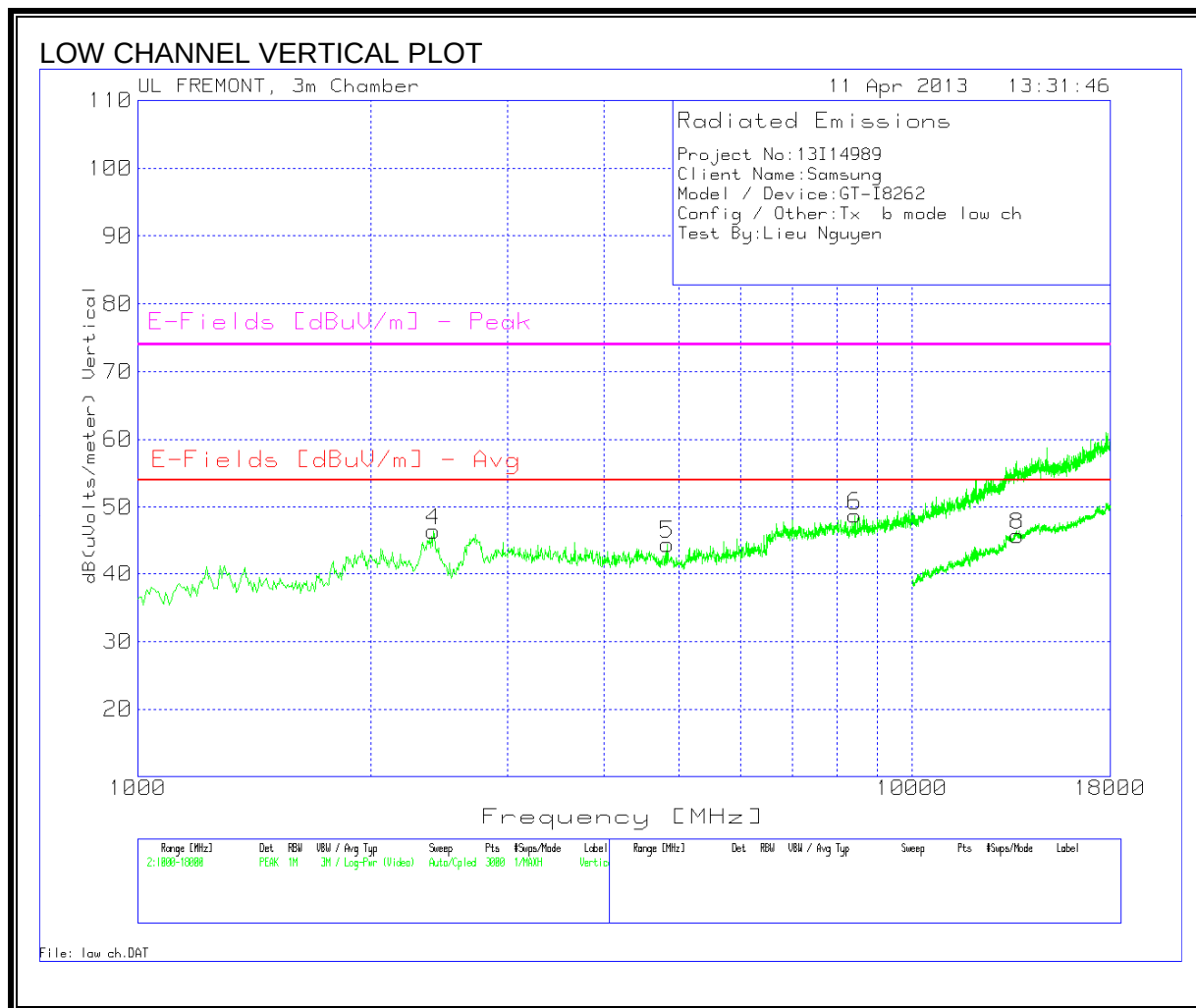






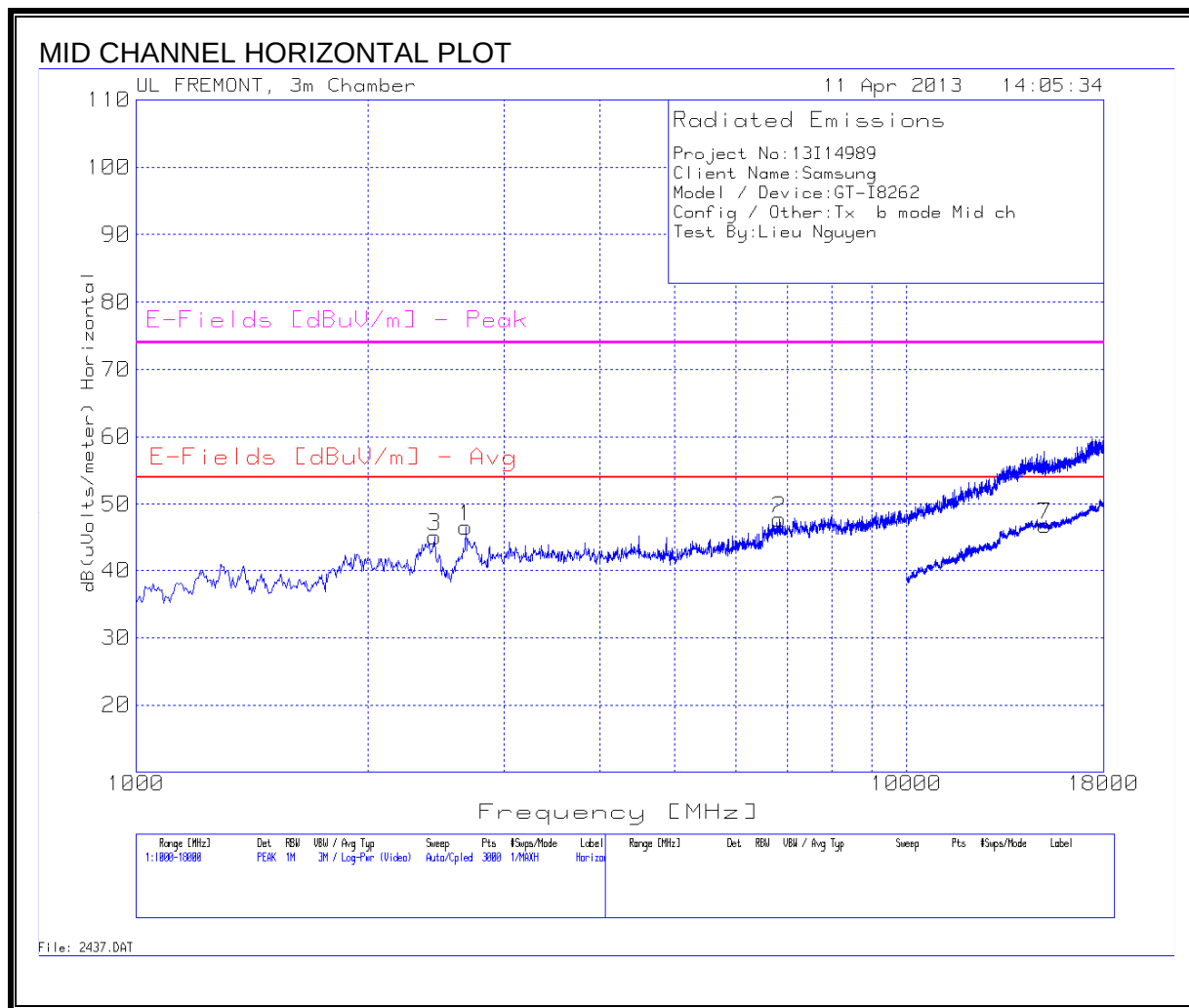


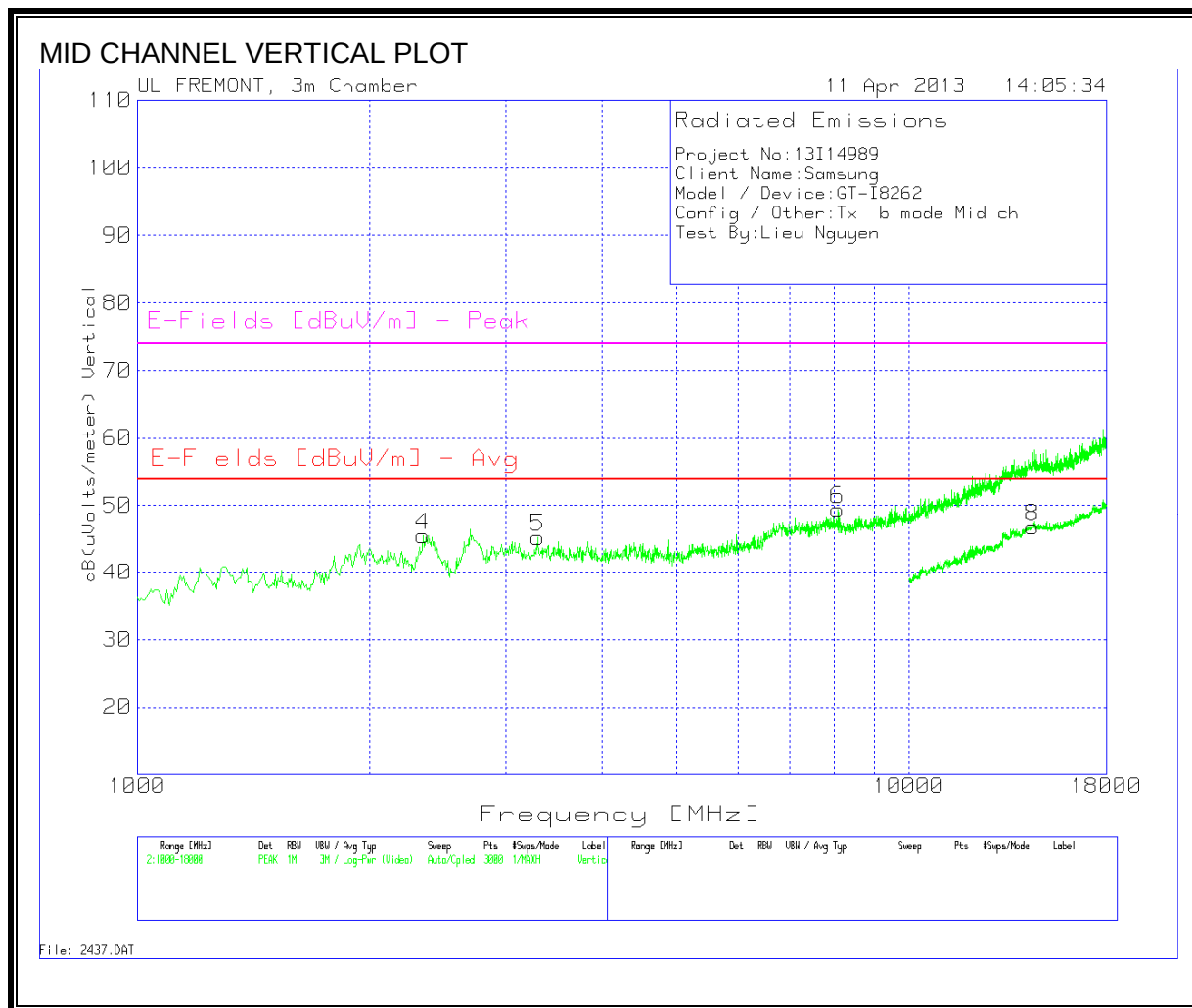




LOW CHANNEL HORIZONTAL AND VERTICAL DATA

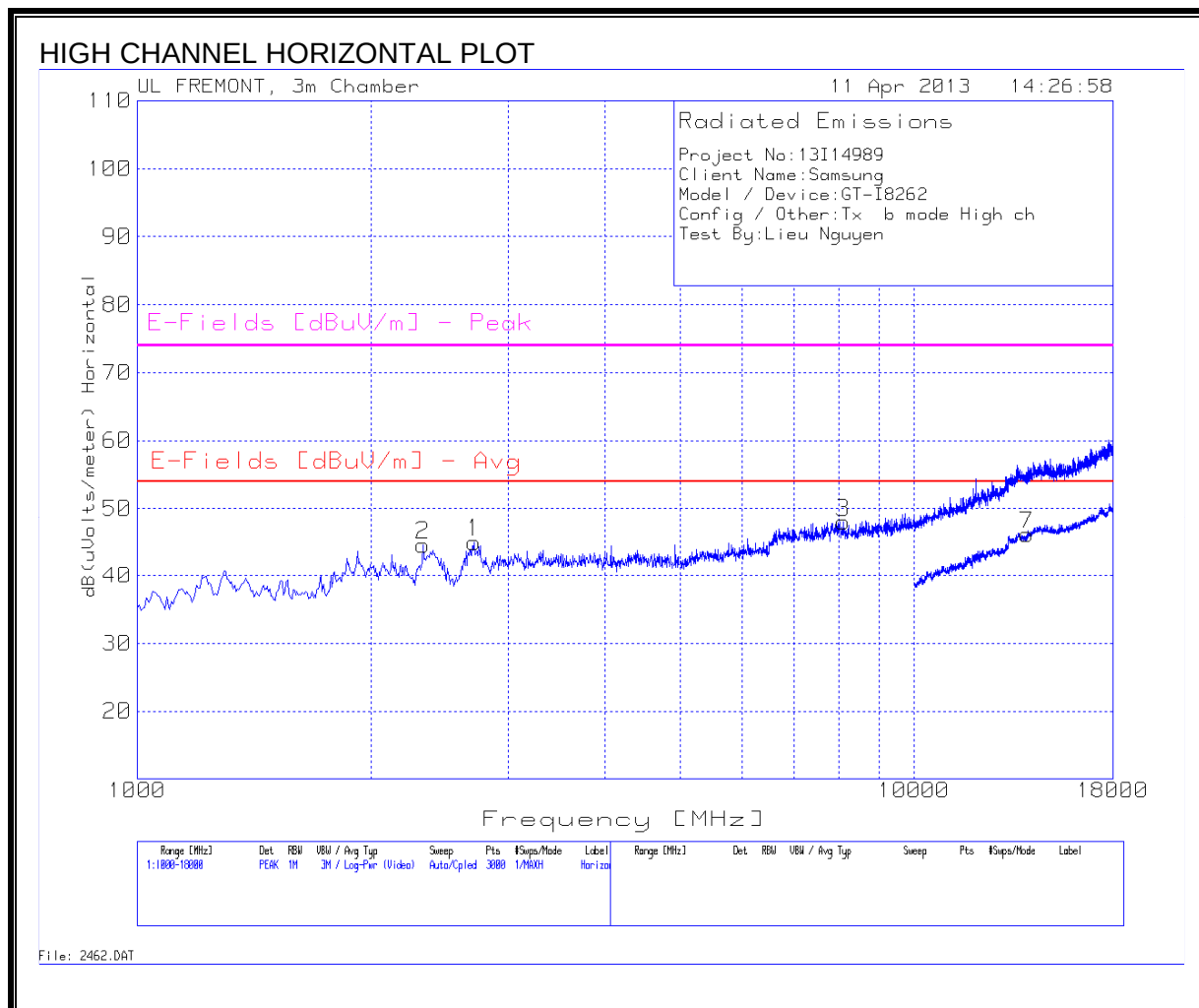
Project No:13I14989											
Client Name:Samsung											
Model / Device:GT-I8262											
Config / Other:Tx b mode low ch											
Test By:Lieu Nguyen											
Horizontal 1000 - 18000MHz											
Marker No.	Frequency (MHz)	Reading (dBuV)	Detector	T119 Ant Factor	T34 Preamp/C	T160 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] -	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)
1	2410.06	42.03	PK	32.1	-29.7	0.9	45.33	54	-8.64	74	-28.67
2	2732.845	39.77	PK	32.7	-28.9	0.9	44.47	54	-9.5	74	-29.53
3	7161.226	35.14	PK	35.6	-23.1	0.3	47.94	54	-6.03	74	-26.06
Vertical 1000 - 18000MHz											
Marker No.	Frequency (MHz)	Reading (dBuV)	Detector	T119 Ant Factor	T34 Preamp/C	T160 BRF [dB]	dB (uVolts/meter)	E-Fields [dBuV/m] -	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)
4	2410.06	42.11	PK	32.1	-29.7	0.9	46.31	54	-7.69	74	-27.69
5	4822.452	35.17	PK	34	-25.2	0.2	44.37	54	-9.63	74	-29.63
6	8429.714	34.27	PK	35.8	-22.1	0.4	48.77	54	-5.23	74	-25.23
Horizontal 10000 - 18000MHz											
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/C	T160 BRF [dB]	dB (uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)
7	14529.735	22.72	PK	39.6	-16	0.4	47.12	54	-6.88	74	-26.88
Vertical 10000 - 18000MHz											
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/C	T160 BRF [dB]	dB (uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)
8	13658.171	22.22	PK	38.8	-16.1	0.4	45.72	54	-8.28	74	-28.28

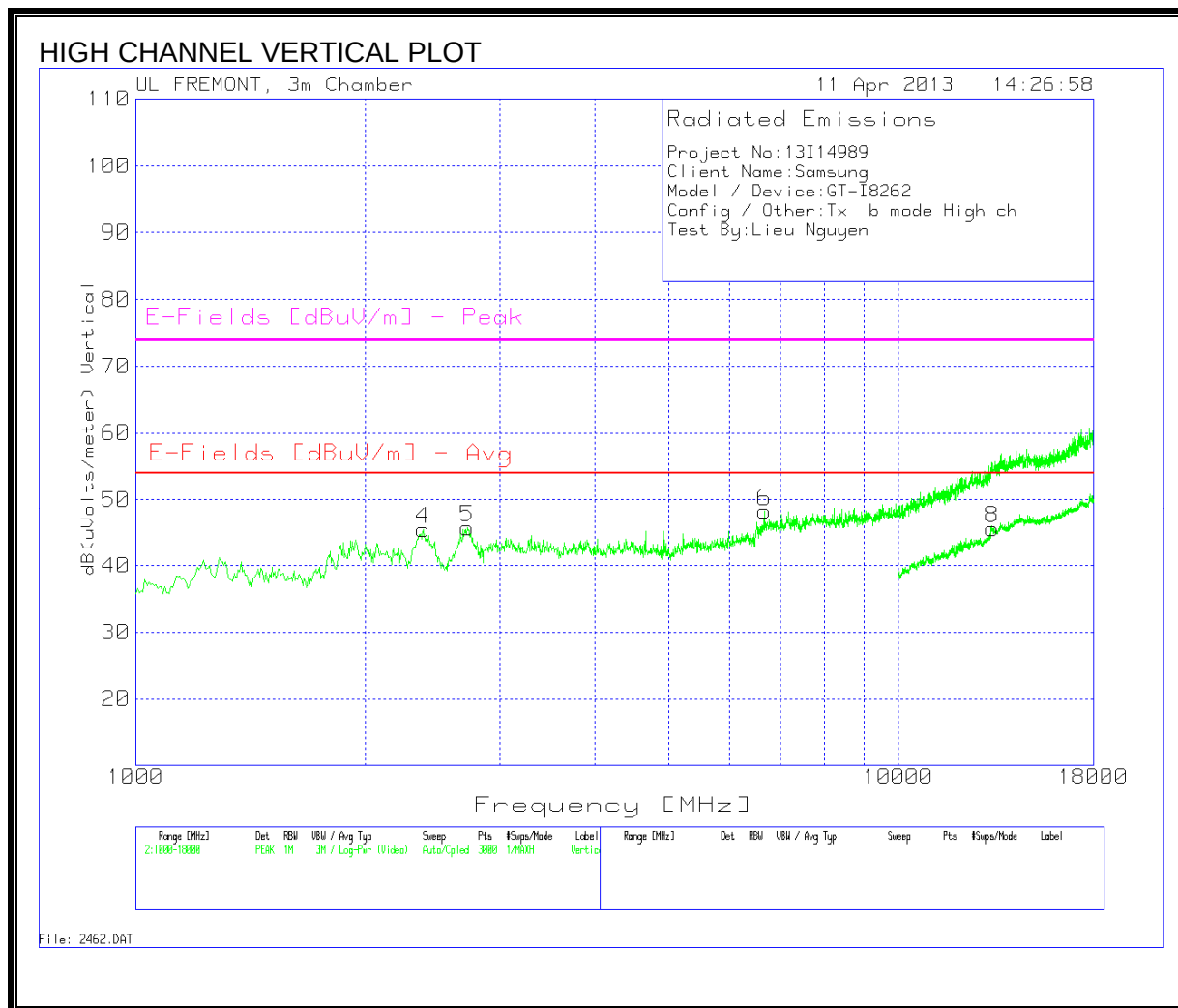




MID CHANNEL HORIZONTAL AND VERTICAL DATA

Project No:13I14989											
Client Name:Samsung											
Model / Device:GT-I8262											
Config / Other:Tx b mode Mid ch											
Test By:Lieu Nguyen											
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector Pk/Avg	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BR [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)
Horizontal 1000 - 18000MHz											
1	2676.216	42.06	PK	32.6	-29.1	0.9	46.46	54	-7.51	74	-27.54
2	6827.115	35.13	PK	35.6	-23.3	0.3	47.73	54	-6.24	74	-26.27
3	2438.374	41.48	PK	32.2	-29.6	0.9	44.98	54	-8.99	74	-29.02
Vertical 1000 - 18000MHz											
4	2347.768	41.39	PK	32	-29.7	0.9	45.49	54	-8.51	74	-28.51
5	3299.134	39.04	PK	32.9	-27.8	0.5	45.14	54	-8.86	74	-28.86
6	8089.94	35.36	PK	35.7	-22.3	0.3	49.36	54	-4.64	74	-24.64
Horizontal 10000 - 18000MHz											
7	15133.433	22.38	PK	39.9	-16.3	0.4	46.78	54	-7.22	74	-27.22
Vertical 10000 - 18000MHz											
8	14465.767	22.26	PK	39.6	-15.9	0.4	46.76	54	-7.24	74	-27.24



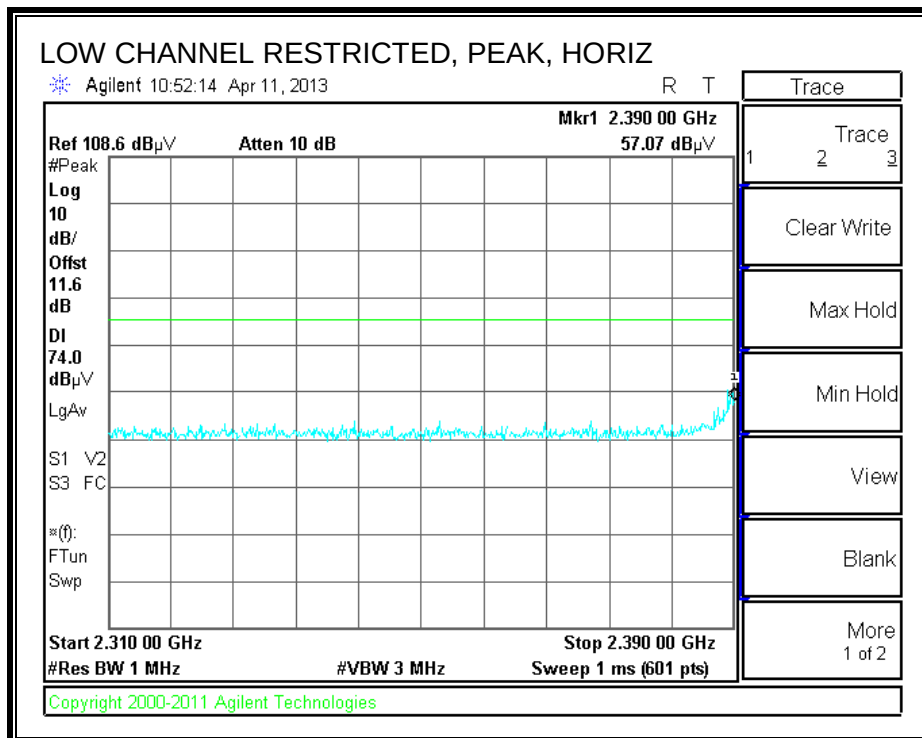


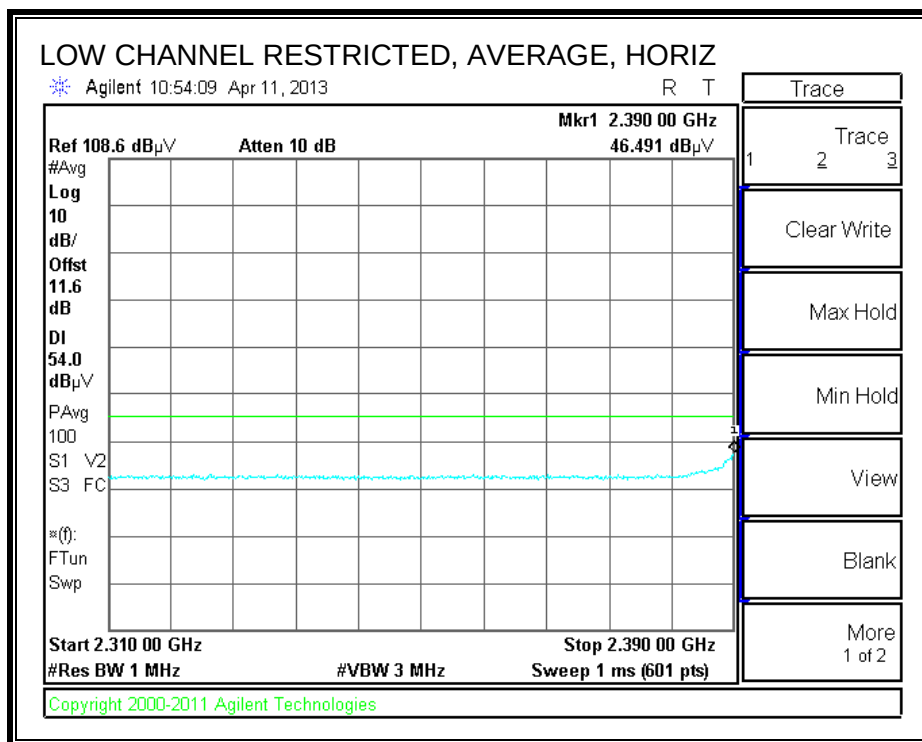
HIGH CHANNEL HORIZONTAL AND VERTICAL DATA

Project No:13I14989											
Client Name:Samsung											
Model / Device:GT-I8262											
Config / Other:Tx b mode High ch											
Test By:Lieu Nguyen											
Horizontal 1000 - 18000MHz											
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector Pk/Avg	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)
Horizontal 1000 - 18000MHz											
1	2715.856	40.44	PK	32.6	-29	0.9	44.94	54	-9.03	74	-29.06
2	2330.779	41.36	PK	31.9	-29.7	0.9	44.46	54	-9.51	74	-29.54
3	8101.266	34.23	PK	35.7	-22.3	0.3	47.93	54	-6.04	74	-26.07
Vertical 1000 - 18000MHz											
4	2381.746	41.19	PK	32.1	-29.7	0.9	45.39	54	-8.61	74	-28.61
5	2721.519	40.35	PK	32.6	-29	0.9	45.75	54	-8.25	74	-28.25
6	6668.554	35.4	PK	35.6	-23.4	0.3	48.2	54	-5.8	74	-25.8
Horizontal 10000 - 18000MHz											
7	13974.01	22.47	PK	38.8	-15.8	0.3	46.07	54	-7.93	74	-27.93
Vertical 10000 - 18000MHz											
8	13266.37	22.4	PK	39.1	-16.7	0.4	45.6	54	-8.4	74	-28.4

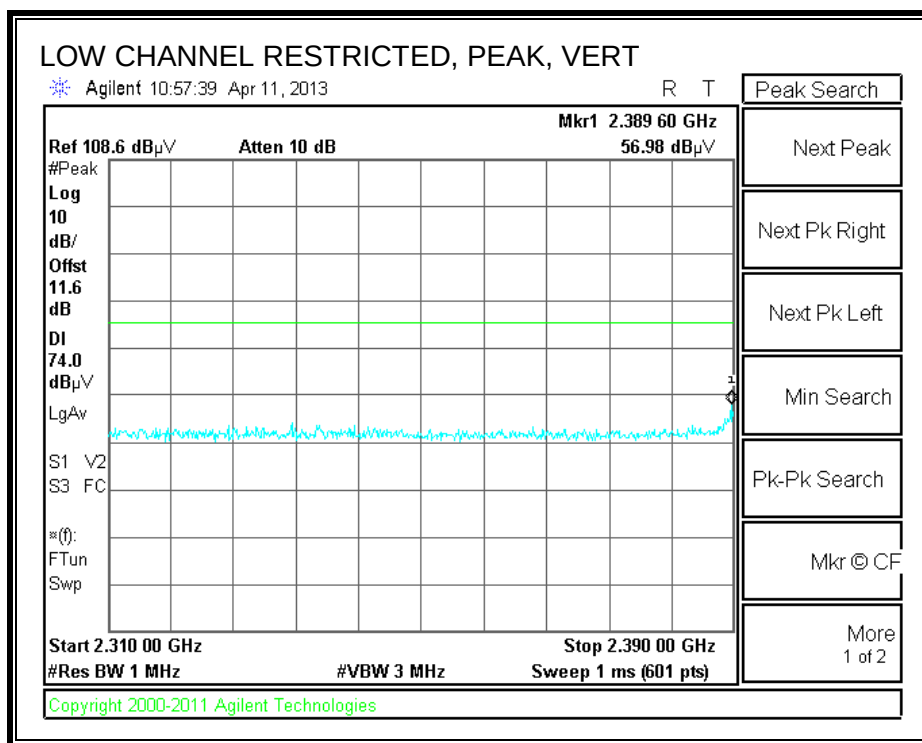
10.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

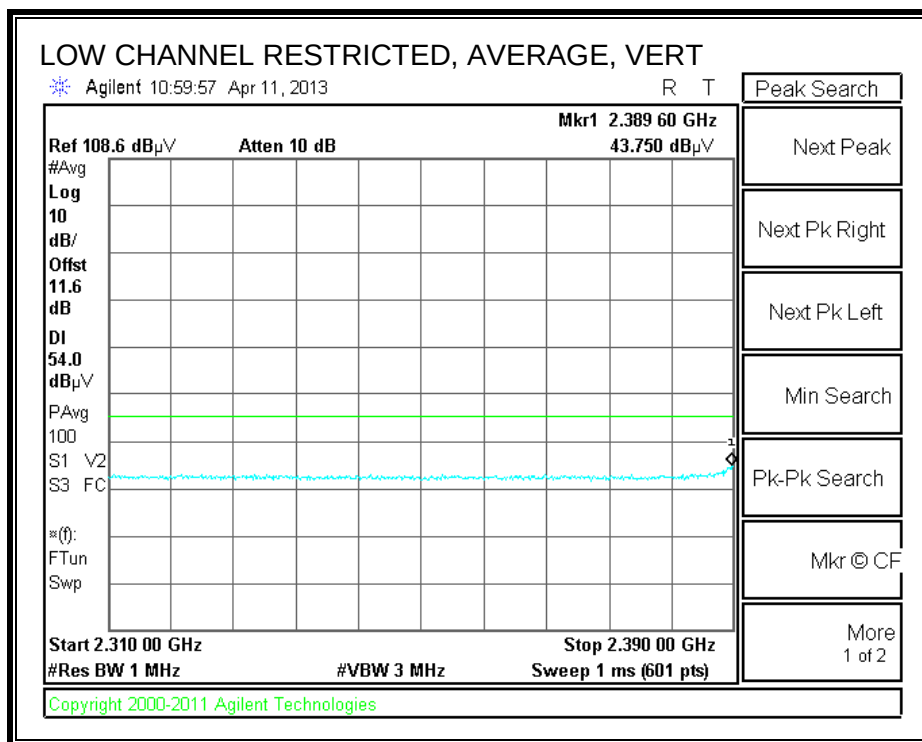
RESTRICTED BANDEDGE (LOW CHANNEL)



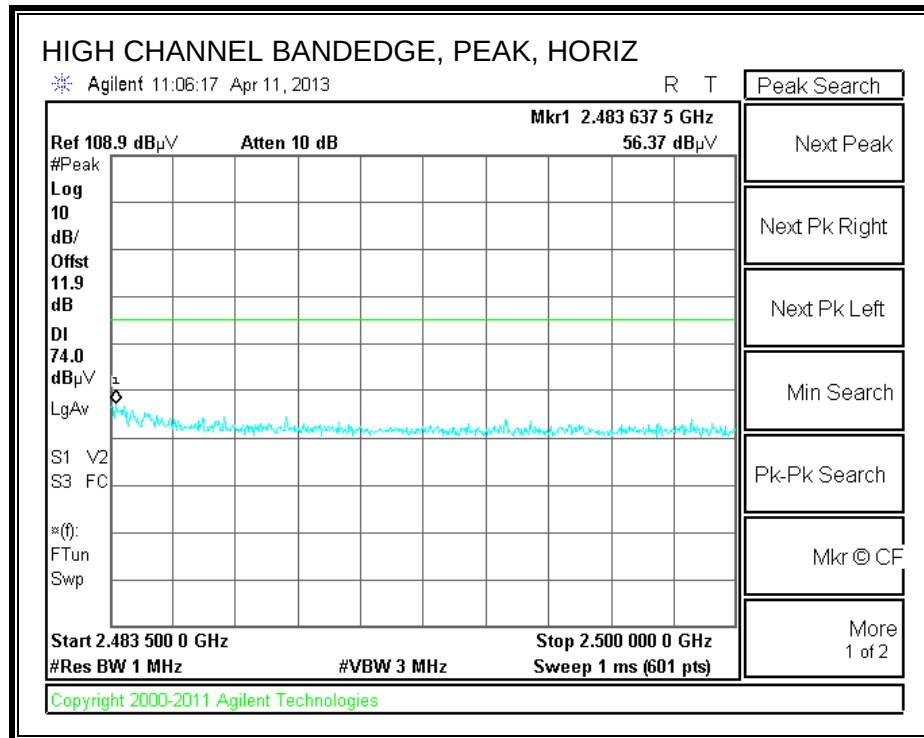


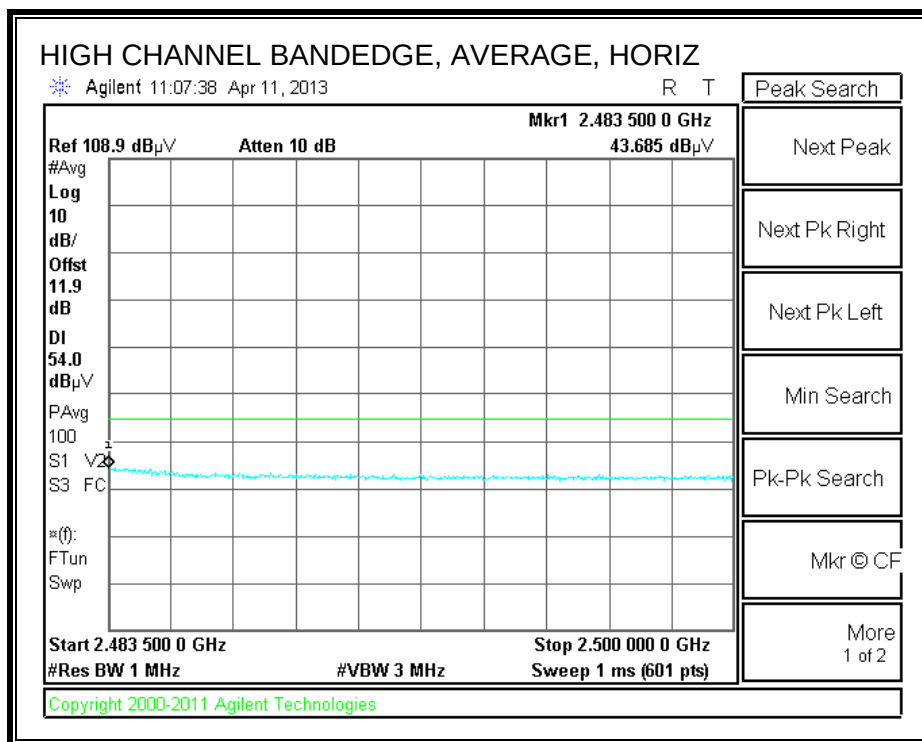
$$\begin{aligned}
 \text{Actual Average} &= \text{Measured Average} + \text{Correction Factor} \\
 &= 48.232 \text{ dB}\mu\text{V} + 0.12 \\
 &= 48.352 \text{ dB}\mu\text{V}
 \end{aligned}$$



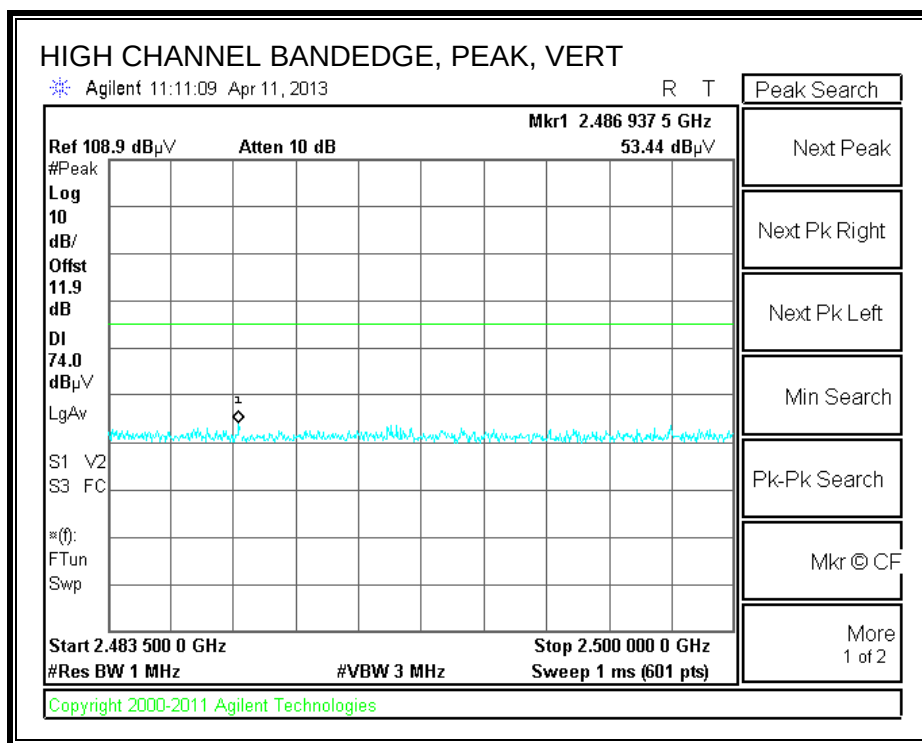


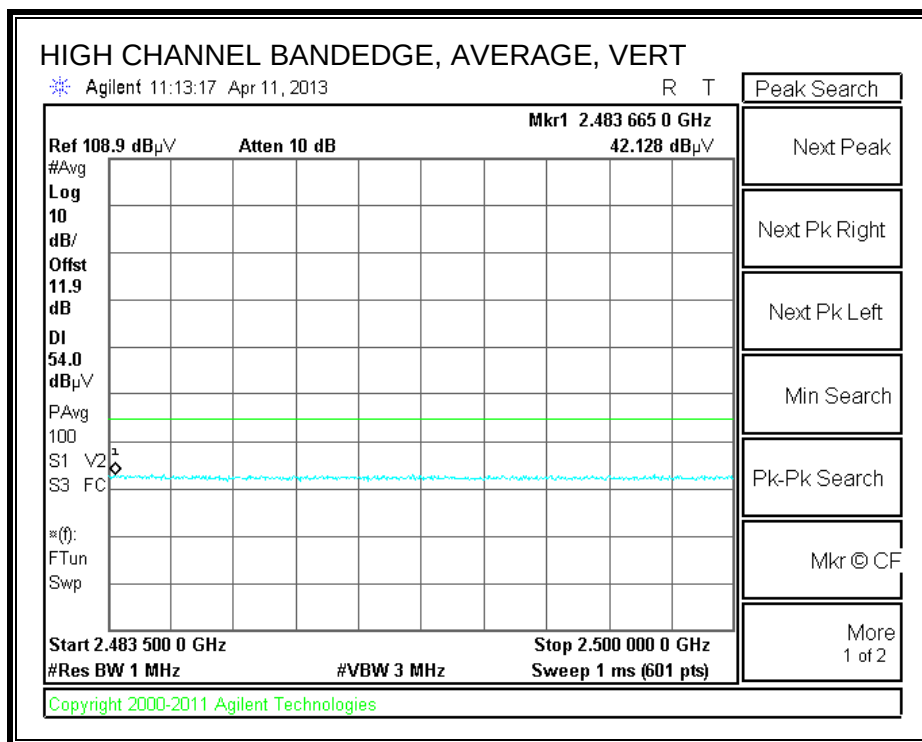
$$\begin{aligned}
 \text{Actual Average} &= \text{Measured Average} + \text{Correction Factor} \\
 &= 46.747 \text{ dBuV} + 0.12 \\
 &= 46.867 \text{ dBuV}
 \end{aligned}$$



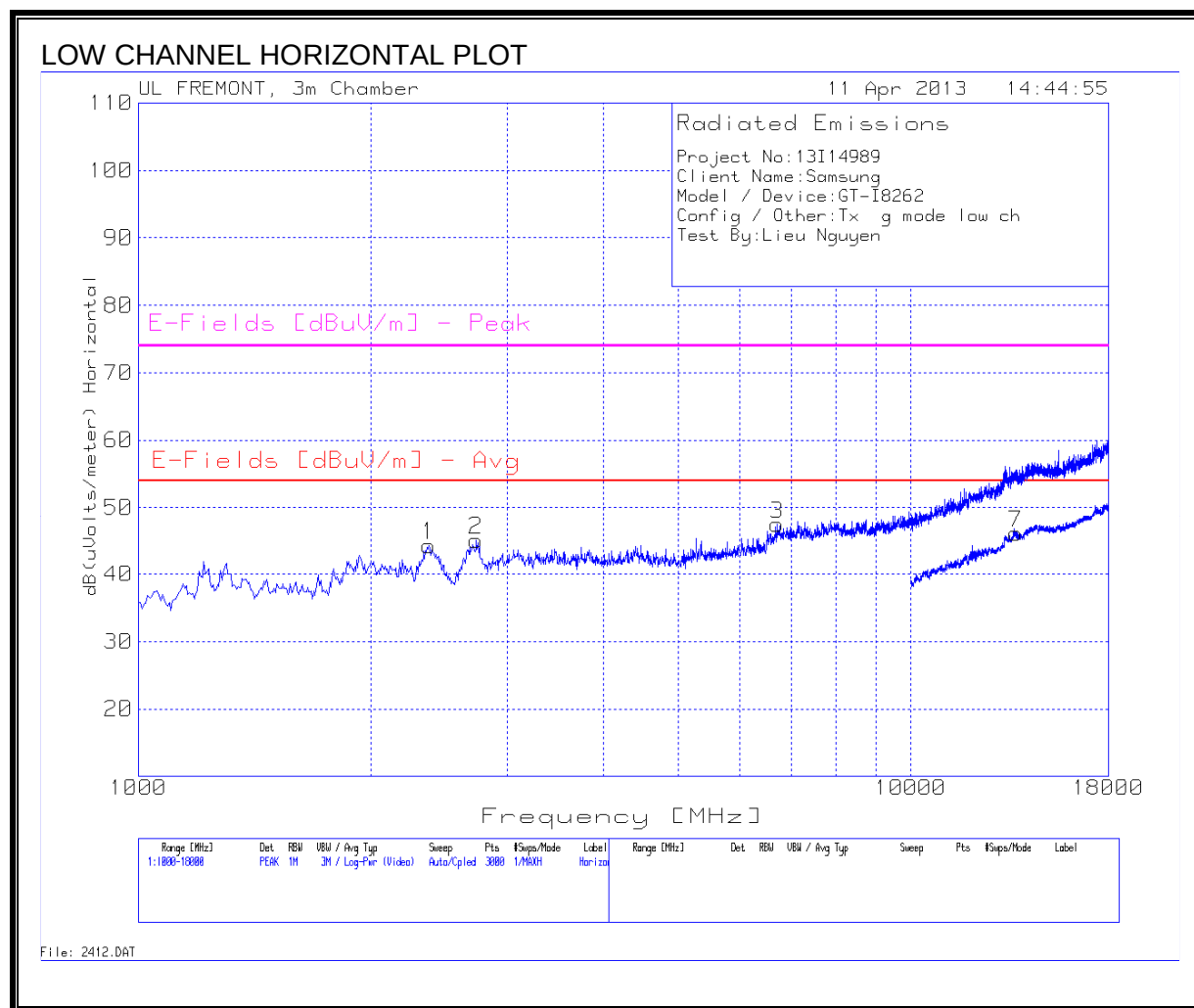


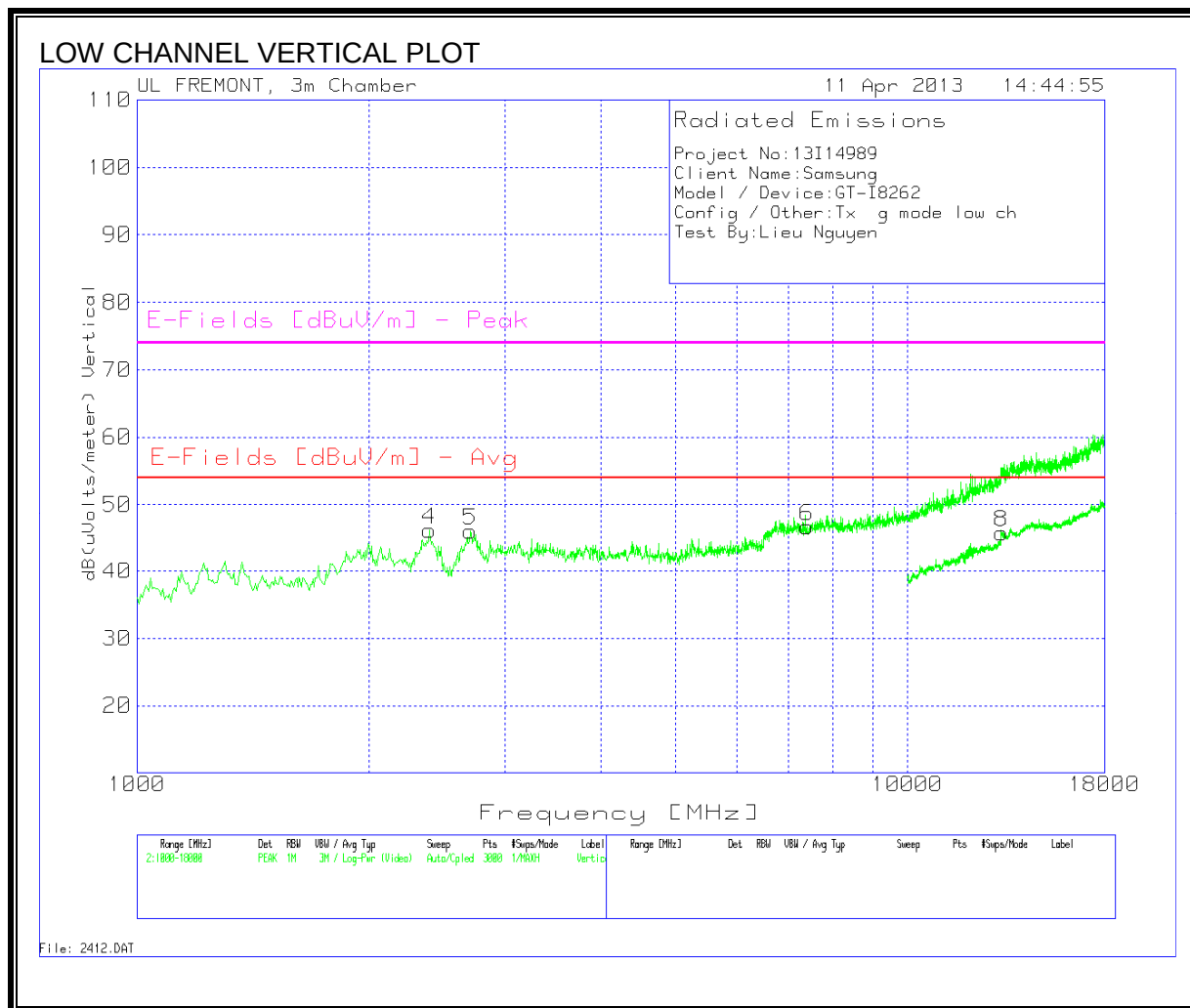
$$\begin{aligned}
 \text{Actual Average} &= \text{Measured Average} + \text{Correction Factor} \\
 &= 50.425 \text{ dBuV} + 0.12 \\
 &= 50.545 \text{ dBuV}
 \end{aligned}$$





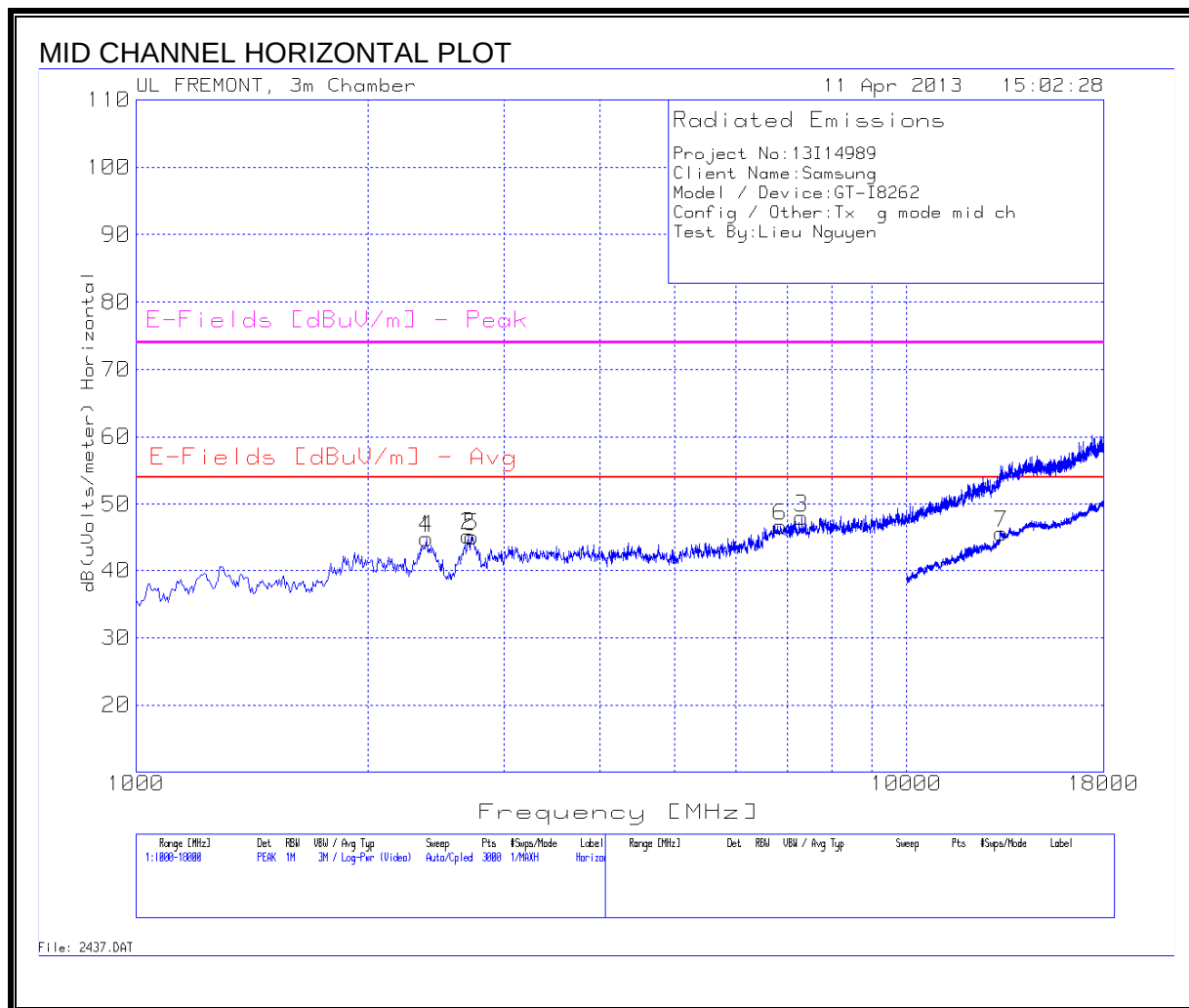
$$\begin{aligned}
 \text{Actual Average} &= \text{Measured Average} + \text{Correction Factor} \\
 &= 48.849 \text{ dBuV} + 0.12 \\
 &= 48.969 \text{ dBuV}
 \end{aligned}$$

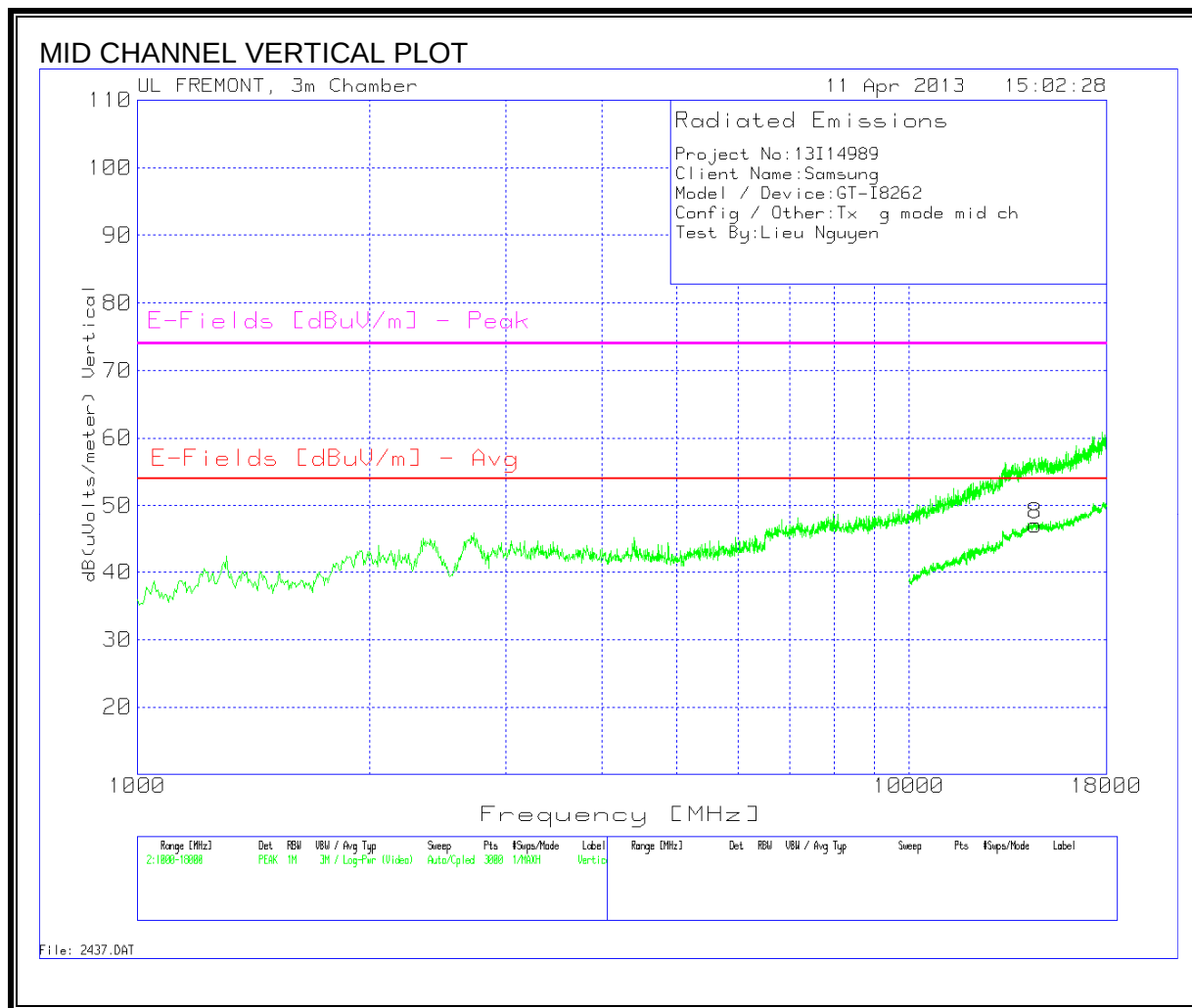




LOW CHANNEL HORIZONTAL AND VERTICAL DATA

Project No:13I14989											
Client Name:Samsung											
Model / Device:GT-I8262											
Config / Other:Tx g mode low ch											
Test By:Lieu Nguyen											
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector Pk/Avg	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)
Horizontal 1000 - 18000MHz											
1	2376.083	41.04	PK	32	-29.7	0.9	44.24	54	-9.73	74	-29.76
2	2738.508	40.35	PK	32.7	-28.9	0.9	45.05	54	-8.92	74	-28.95
3	6713.857	34.88	PK	35.6	-23.4	0.3	47.38	54	-6.59	74	-26.62
Vertical 1000 - 18000MHz											
4	2393.071	41.89	PK	32.1	-29.7	0.9	46.09	54	-7.91	74	-27.91
5	2710.193	40.56	PK	32.6	-29	0.9	45.96	54	-8.04	74	-28.04
6	7393.404	33.56	PK	35.7	-23	0.2	46.66	54	-7.34	74	-27.34
Horizontal 10000 - 18000MHz											
7	13670.165	22.65	PK	38.8	-16.1	0.4	46.15	54	-7.85	74	-27.85
Vertical 10000 - 18000MHz											
8	13234.383	22.51	PK	39.1	-16.7	0.4	45.71	54	-8.29	74	-28.29





MID CHANNEL HORIZONTAL AND VERTICAL DATA

Project No:13I14989

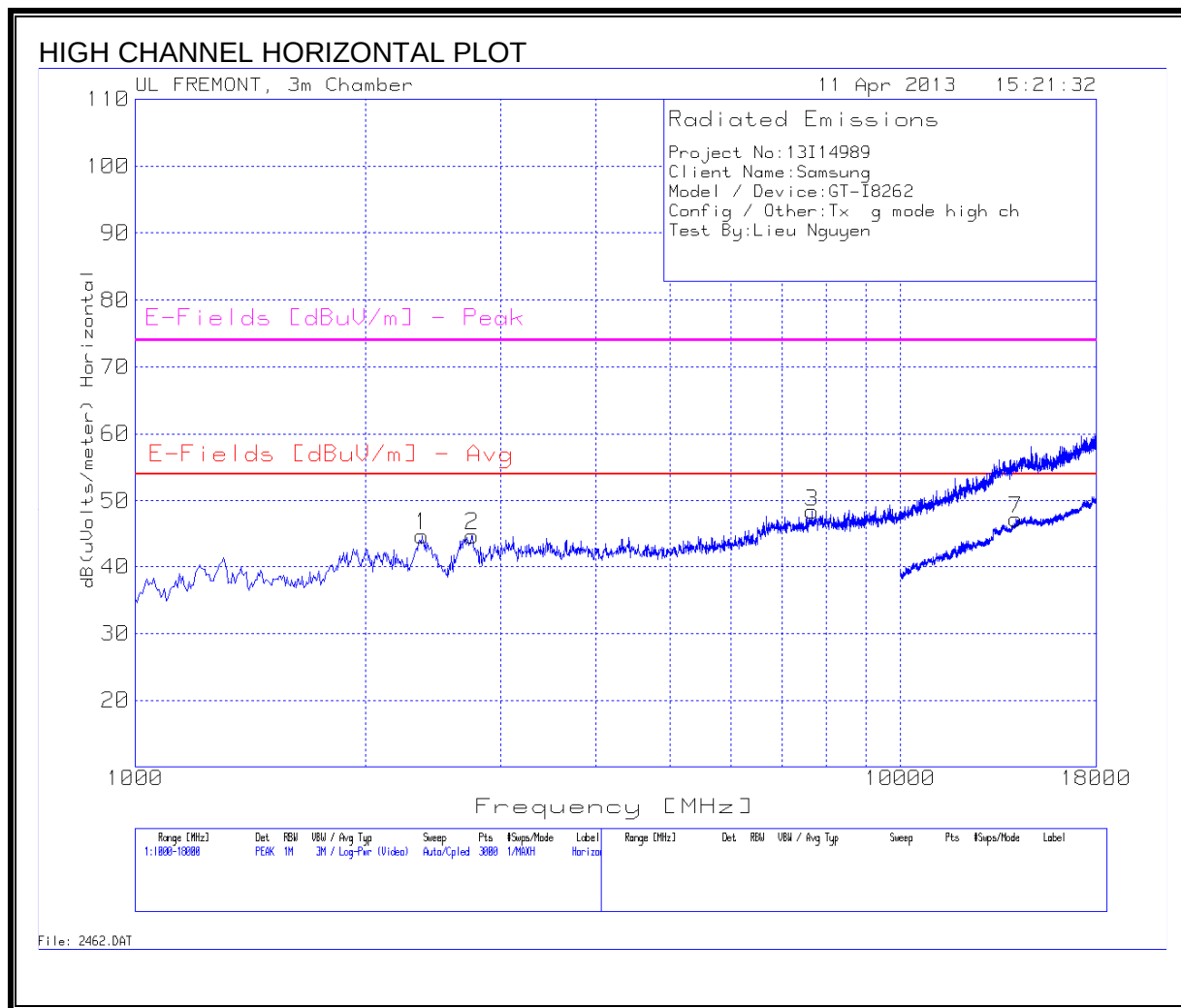
Client Name:Samsung

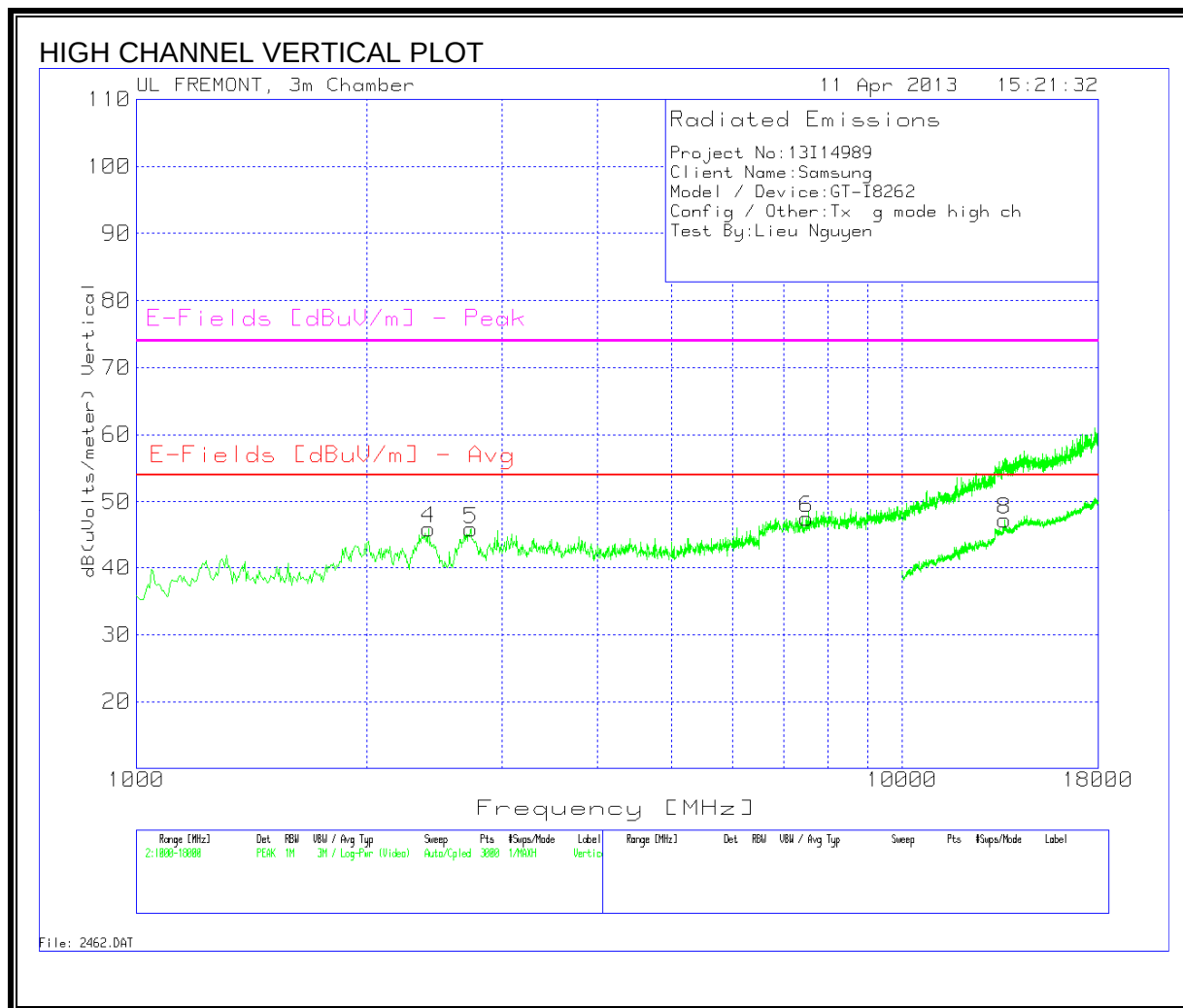
Model / Device:GT-I8262

Config / Other:Tx g mode mid ch

Test By:Lieu Nguyen

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector Pk/Avg	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)
Horizontal 1000 - 18000MHz											
1	2381.746	41.5	PK	32.1	-29.7	0.9	44.8	54	-9.17	74	-29.2
2	2698.867	40.67	PK	32.6	-29	0.9	45.17	54	-8.8	74	-28.83
3	7302.798	35.14	PK	35.6	-23	0.2	47.94	54	-6.03	74	-26.06
Vertical 1000 - 18000MHz											
4	2381.746	41.5	PK	32.1	-29.7	0.9	44.8	54	-9.17	74	-29.2
5	2727.182	40.56	PK	32.6	-29	0.9	45.06	54	-8.91	74	-28.94
6	6855.43	33.98	PK	35.6	-23.2	0.3	46.68	54	-7.29	74	-27.32
Horizontal 10000 - 18000MHz											
7	13266.37	22.34	PK	39.1	-16.7	0.4	45.54	54	-8.46	74	-28.46
Vertical 10000 - 18000MHz											
8	14573.71	22.58	PK	39.7	-16.1	0.4	46.98	54	-7.02	74	-27.02





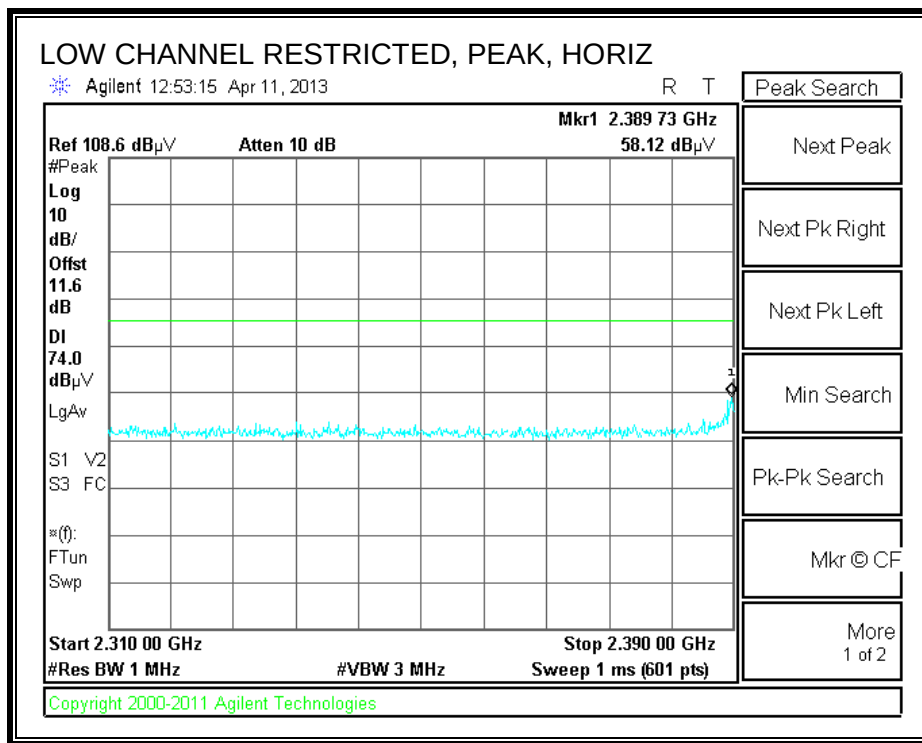
HIGH CHANNEL HORIZONTAL AND VERTICAL DATA

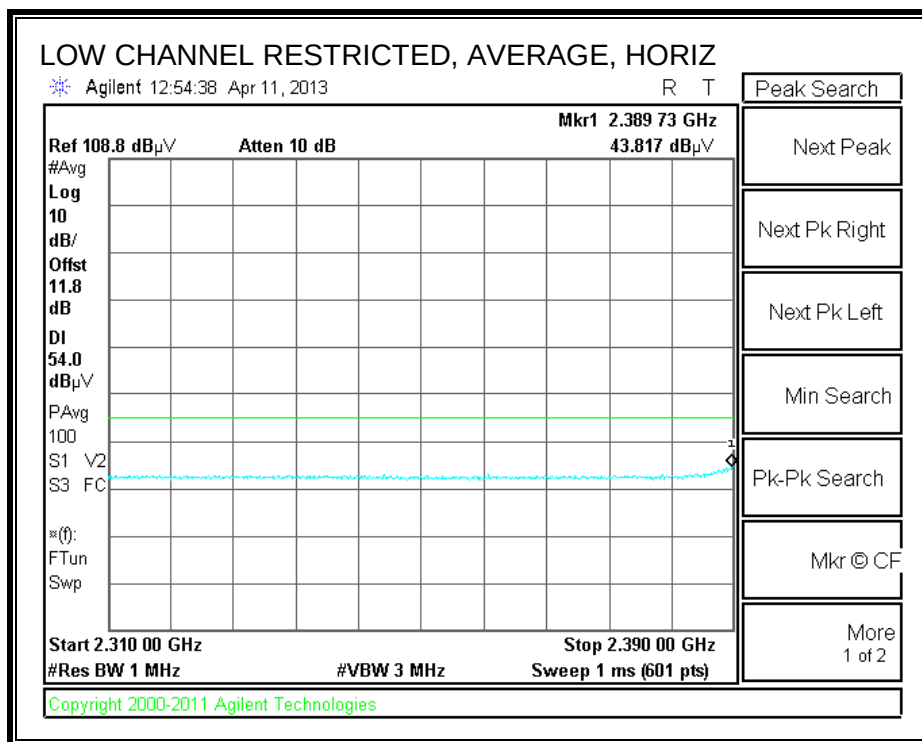
Project No:13I14989											
Client Name:Samsung											
Model / Device:GT-I8262											
Config / Other:Tx g mode high ch											
Test By:Lieu Nguyen											

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector Pk/Avg	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)
Horizontal 1000 - 18000MHz											
1	2370.42	41.48	PK	32	-29.7	0.9	44.68	54	-9.29	74	-29.32
2	2755.496	39.94	PK	32.7	-28.9	0.9	44.64	54	-9.33	74	-29.36
3	7659.56	34.87	PK	35.8	-22.7	0.3	48.27	54	-5.7	74	-25.73
Vertical 1000 - 18000MHz											
4	2410.06	41.6	PK	32.1	-29.7	0.9	45.8	54	-8.2	74	-28.2
5	2732.845	40.16	PK	32.7	-28.9	0.9	45.76	54	-8.24	74	-28.24
6	7500.999	34.03	PK	35.7	-22.9	0.3	47.43	54	-6.57	74	-26.57
Horizontal 10000 - 18000MHz											
7	14161.92	22.99	PK	39.1	-15.8	0.4	47.09	54	-6.91	74	-26.91
Vertical 10000 - 18000MHz											
8	13594.2	23.69	PK	38.9	-16.2	0.4	47.19	54	-6.81	74	-26.81

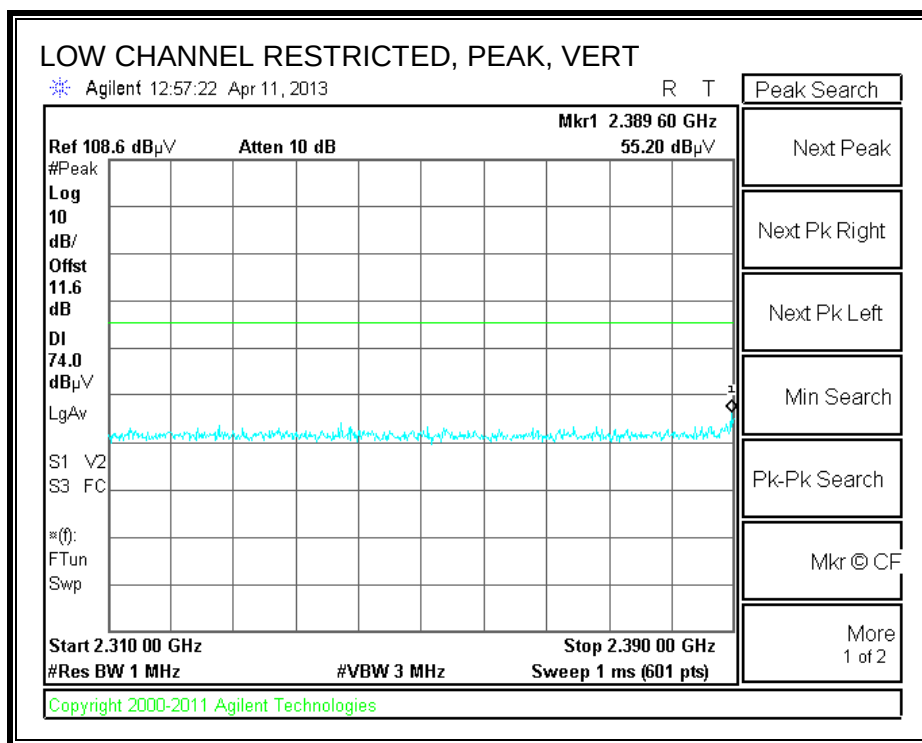
10.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

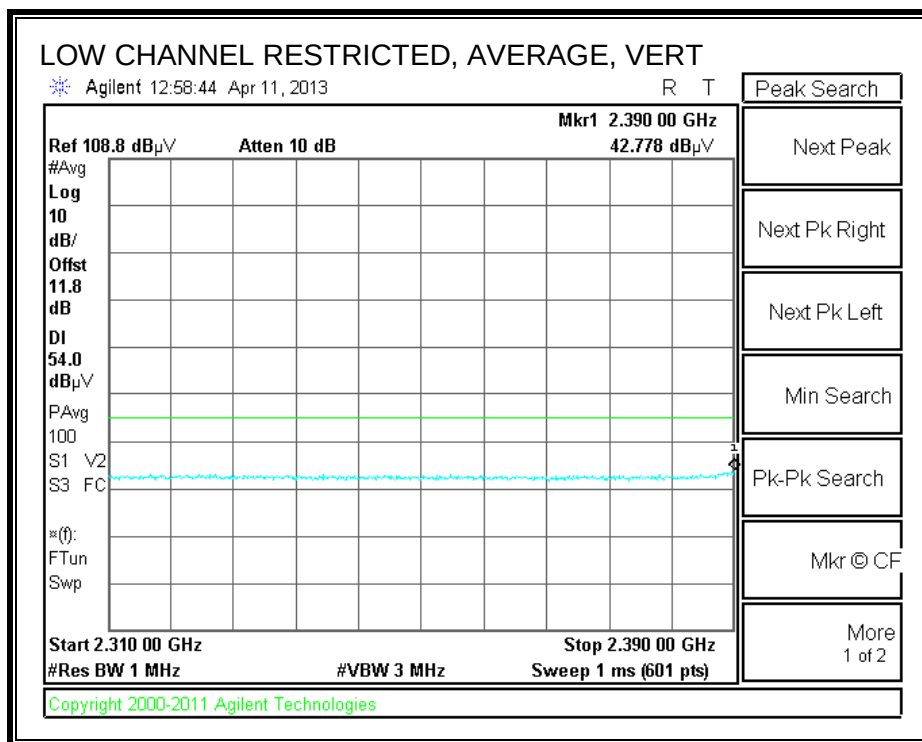
RESTRICTED BANDEDGE (LOW CHANNEL)



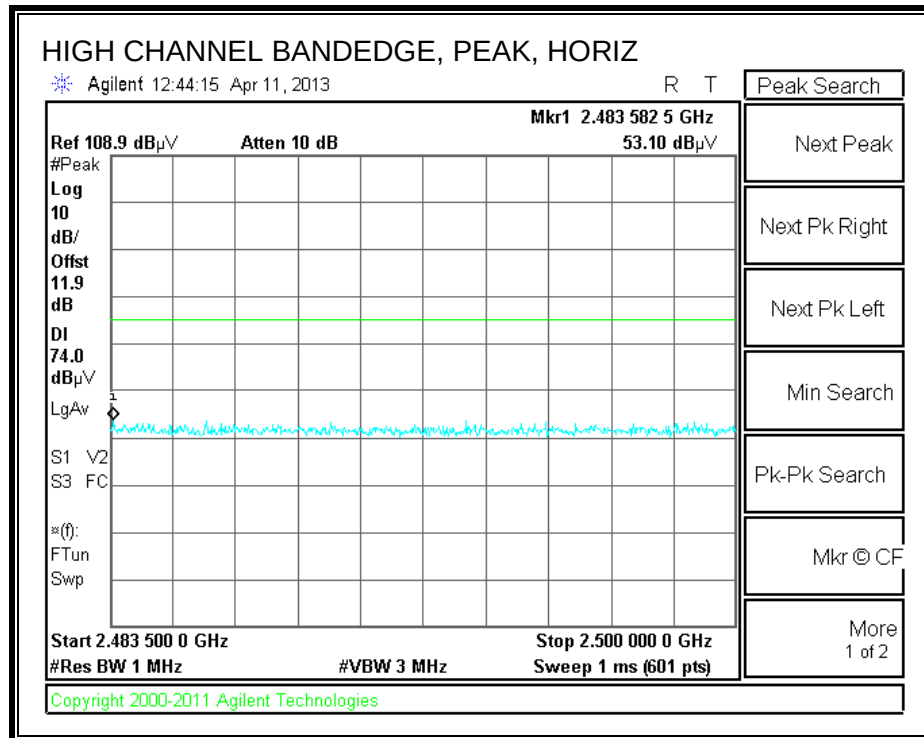


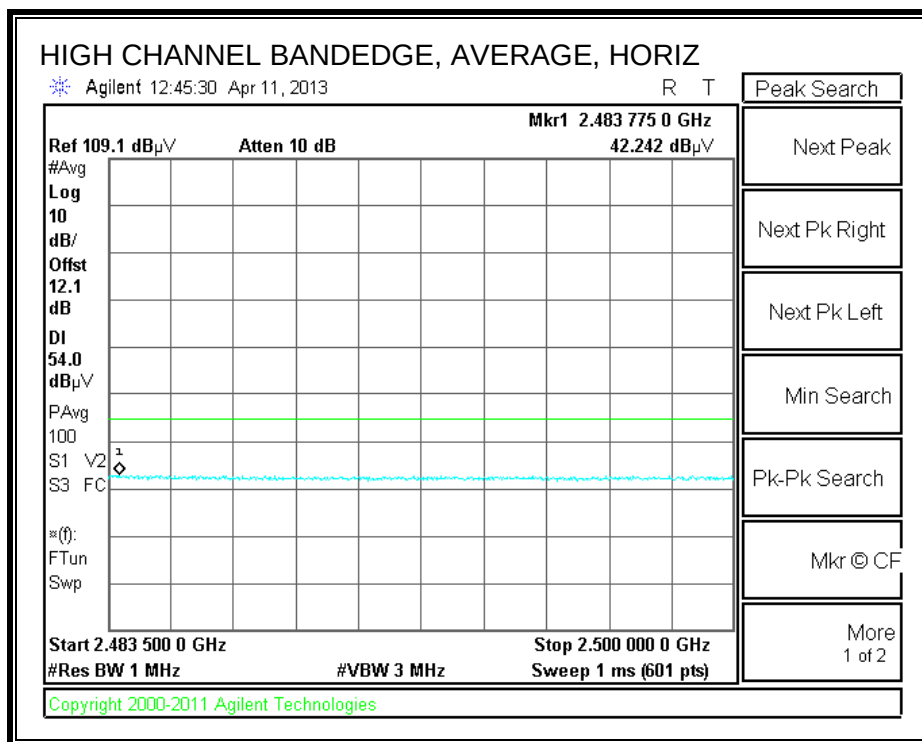
$$\begin{aligned}
 \text{Actual Average} &= \text{Measured Average} + \text{Correction Factor} \\
 &= 42.458 \text{ dBuV} + 0.17 \\
 &= 42.628 \text{ dBuV}
 \end{aligned}$$



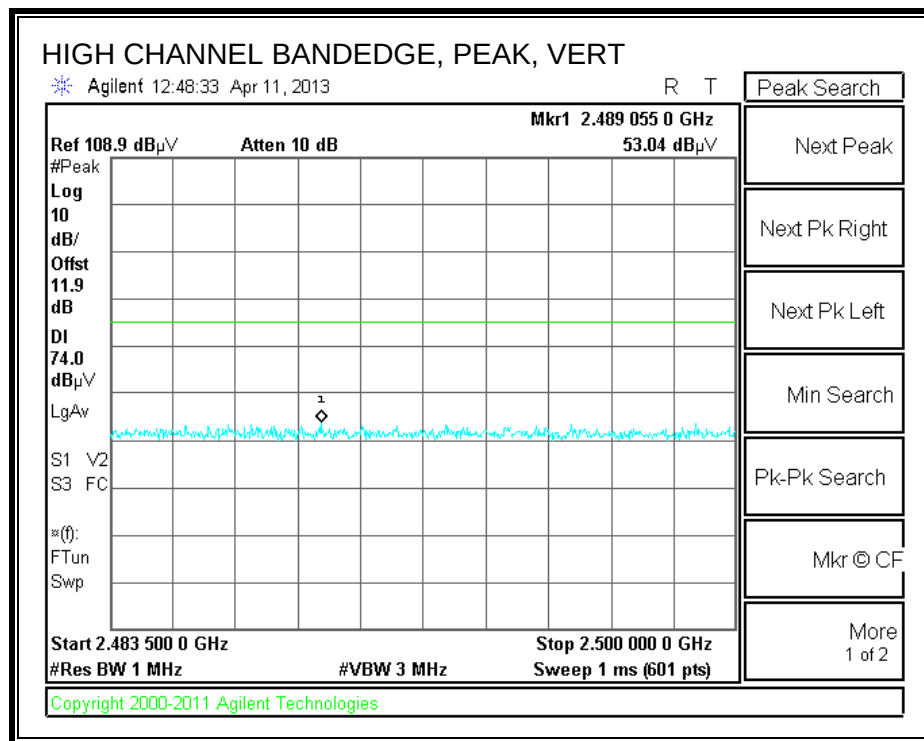


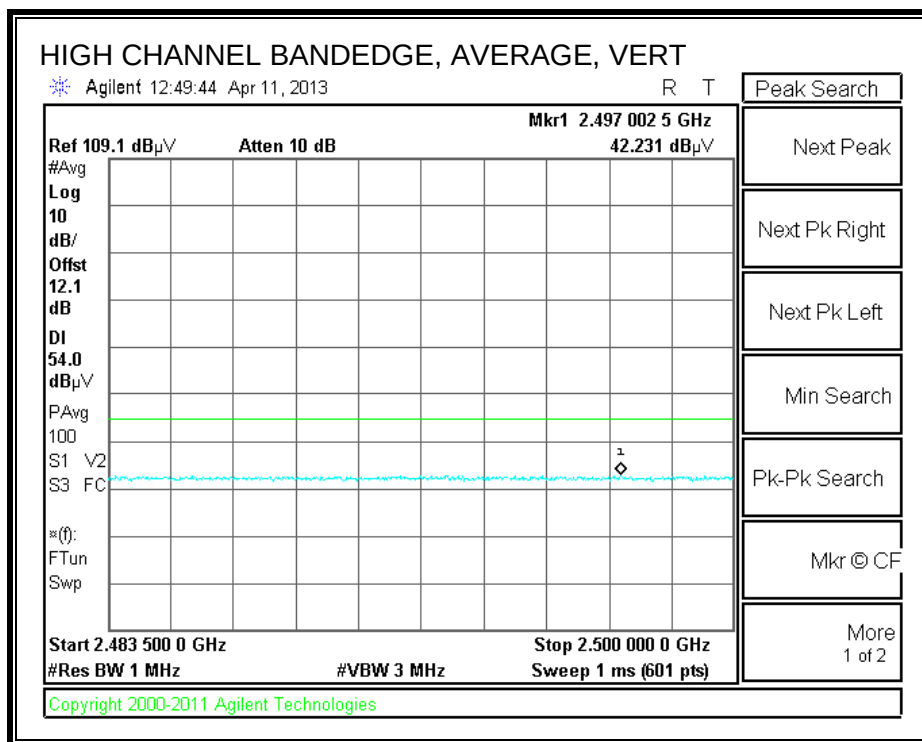
$$\begin{aligned}
 \text{Actual Average} &= \text{Measured Average} + \text{Correction Factor} \\
 &= 40.362 \text{ dBuV} + 0.17 \\
 &= 40.532 \text{ dBuV}
 \end{aligned}$$



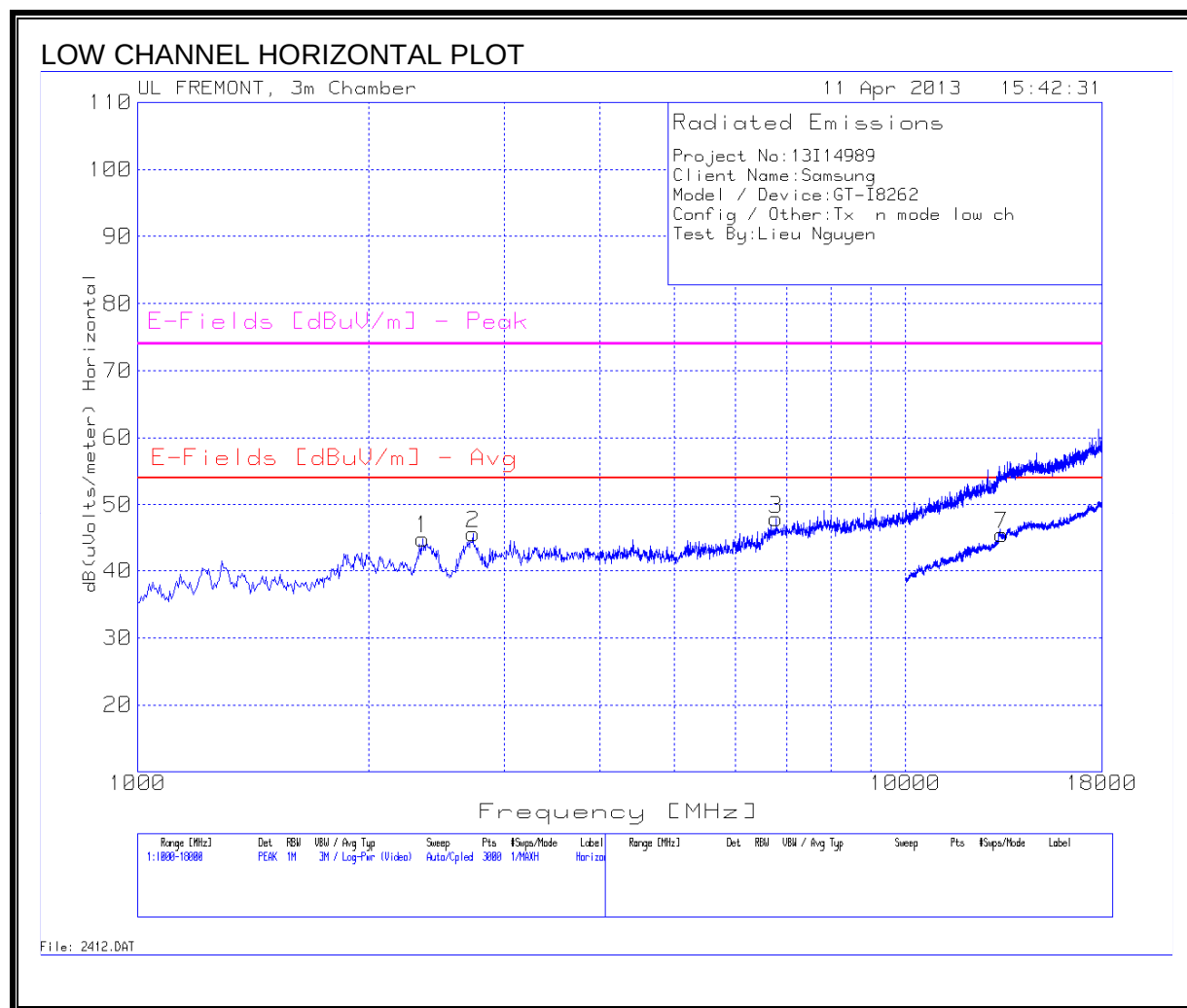


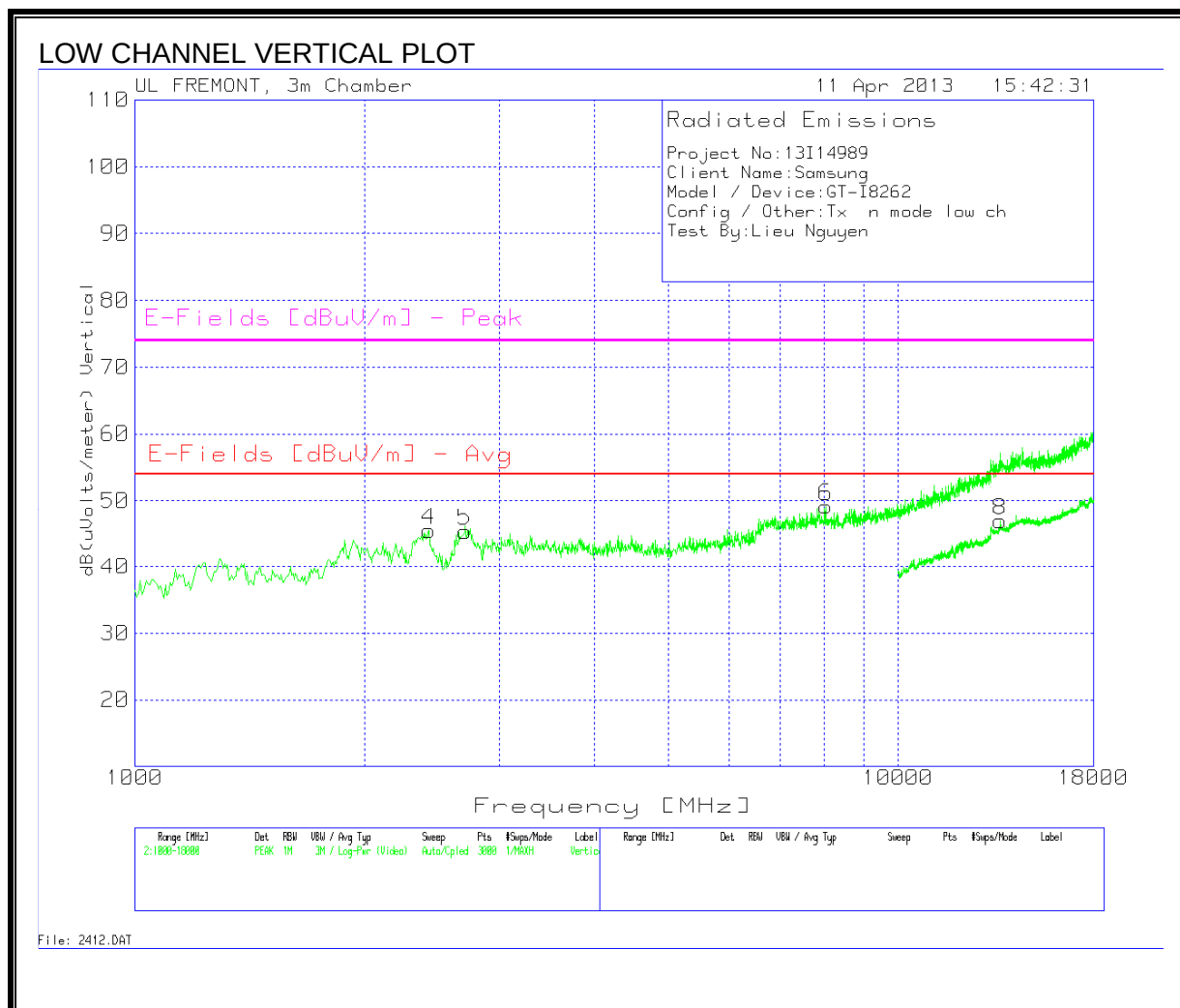
$$\begin{aligned}
 \text{Actual Average} &= \text{Measured Average} + \text{Correction Factor} \\
 &= 48.306 \text{ dBuV} + 0.17 \\
 &= 48.476 \text{ dBuV}
 \end{aligned}$$





$$\begin{aligned}
 \text{Actual Average} &= \text{Measured Average} + \text{Correction Factor} \\
 &= 44.466 \text{ dBuV} + 0.17 \\
 &= 44.636 \text{ dBuV}
 \end{aligned}$$





LOW CHANNEL HORIZONTAL AND VERTICAL DATA

Project No:13I14989

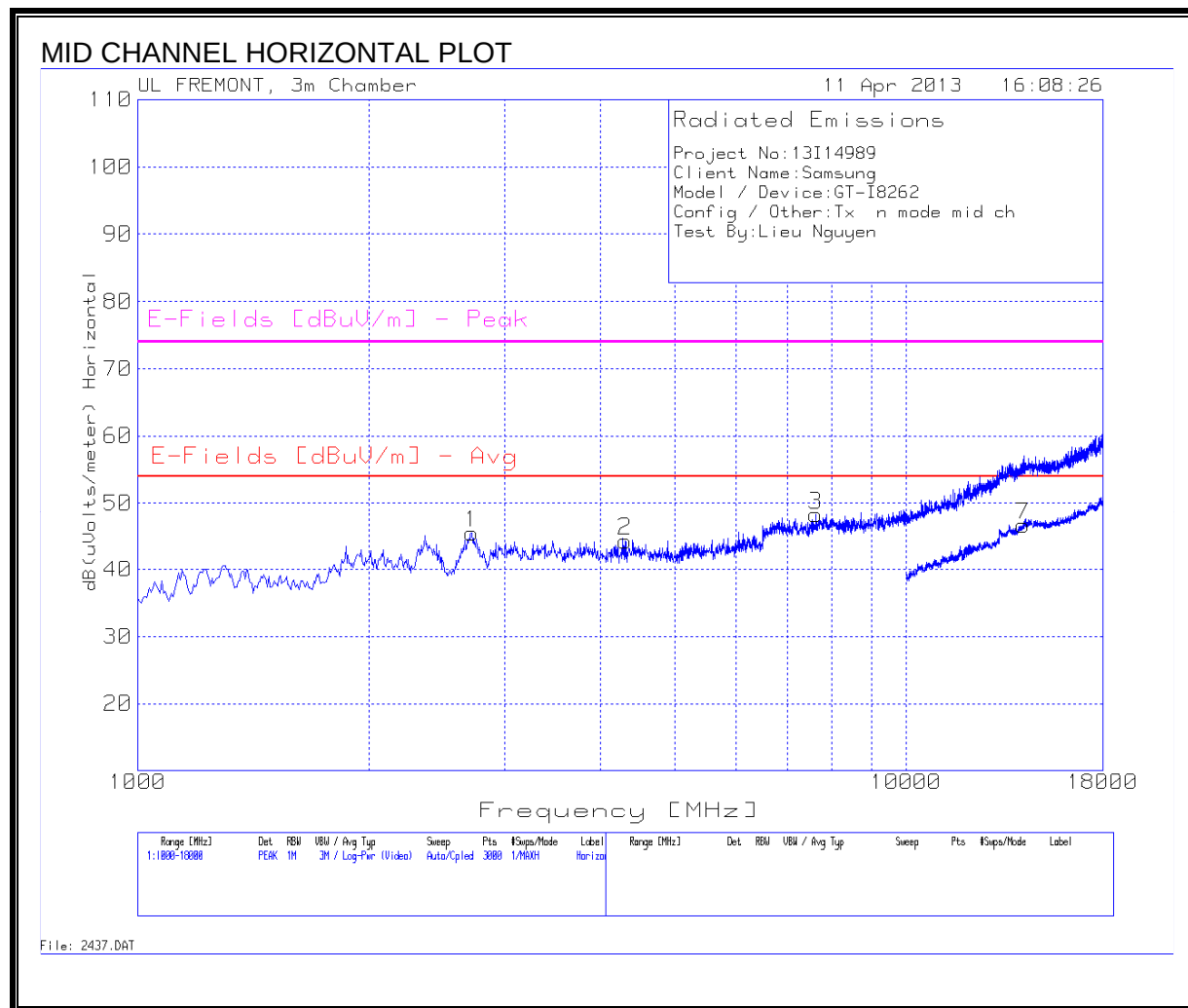
Client Name:Samsung

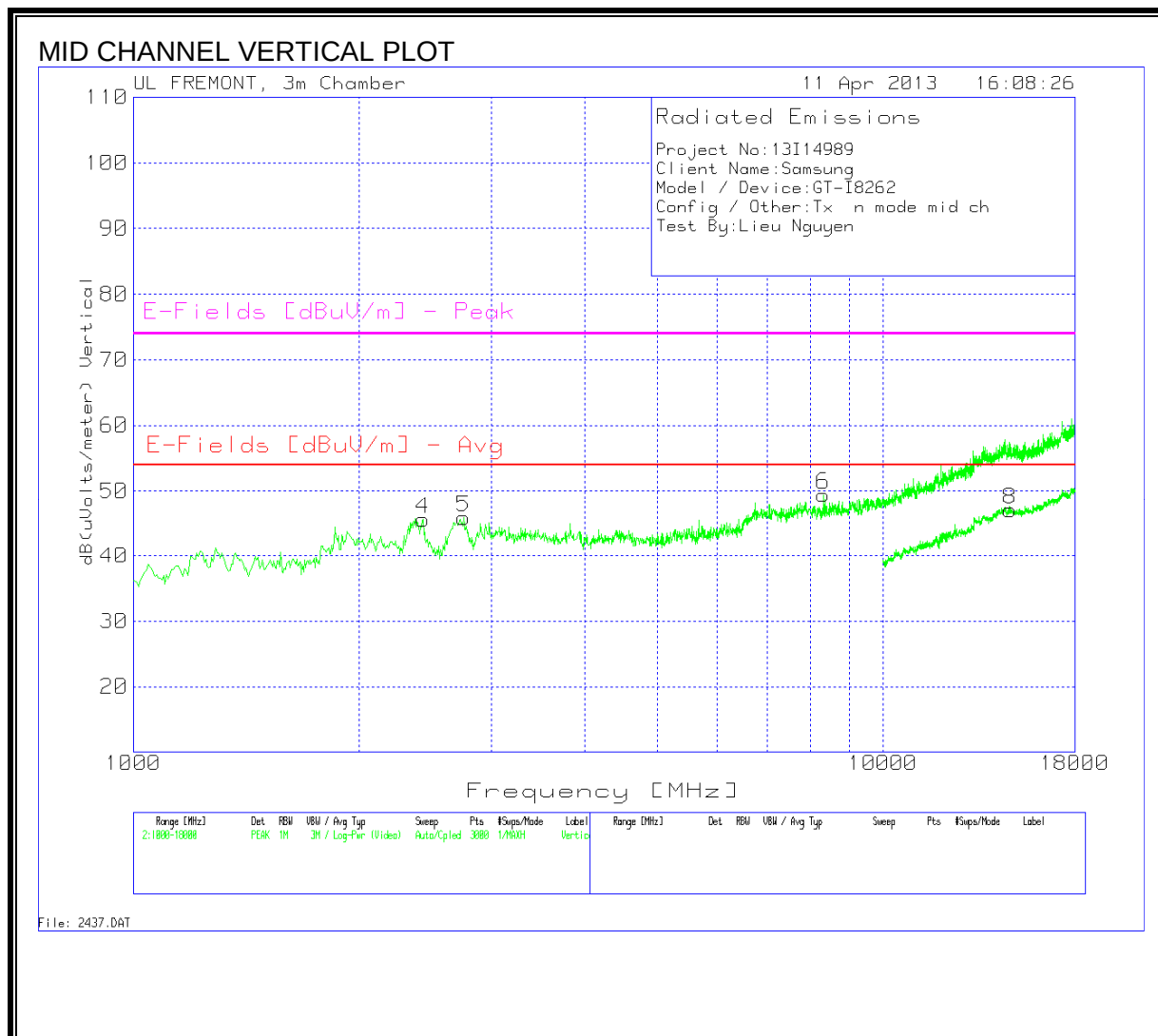
Model / Device:GT-I8262

Config / Other:Tx n mode low ch

Test By:Lieu Nguyen

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector Pk/Avg	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)
Horizontal 1000 - 18000MHz											
1	2353.431	41.51	PK	32	-29.7	0.9	44.71	54	-9.26	74	-29.29
2	2732.845	40.92	PK	32.7	-28.9	0.9	45.62	54	-8.35	74	-28.38
3	6781.812	35.17	PK	35.6	-23.3	0.3	47.77	54	-6.2	74	-26.23
Vertical 1000 - 18000MHz											
4	2427.049	41.11	PK	32.2	-29.7	0.9	45.41	54	-8.59	74	-28.59
5	2704.53	39.85	PK	32.6	-29	0.9	45.25	54	-8.75	74	-28.75
6	8027.648	35.21	PK	35.7	-22.4	0.3	49.11	54	-4.89	74	-24.89
Horizontal 10000 - 18000MHz											
7	13358.32	22.11	PK	39.2	-16.7	0.4	45.41	54	-8.59	74	-28.59
Vertical 10000 - 18000MHz											
8	13610.2	23.32	PK	38.9	-16.1	0.4	46.92	54	-7.08	74	-27.08

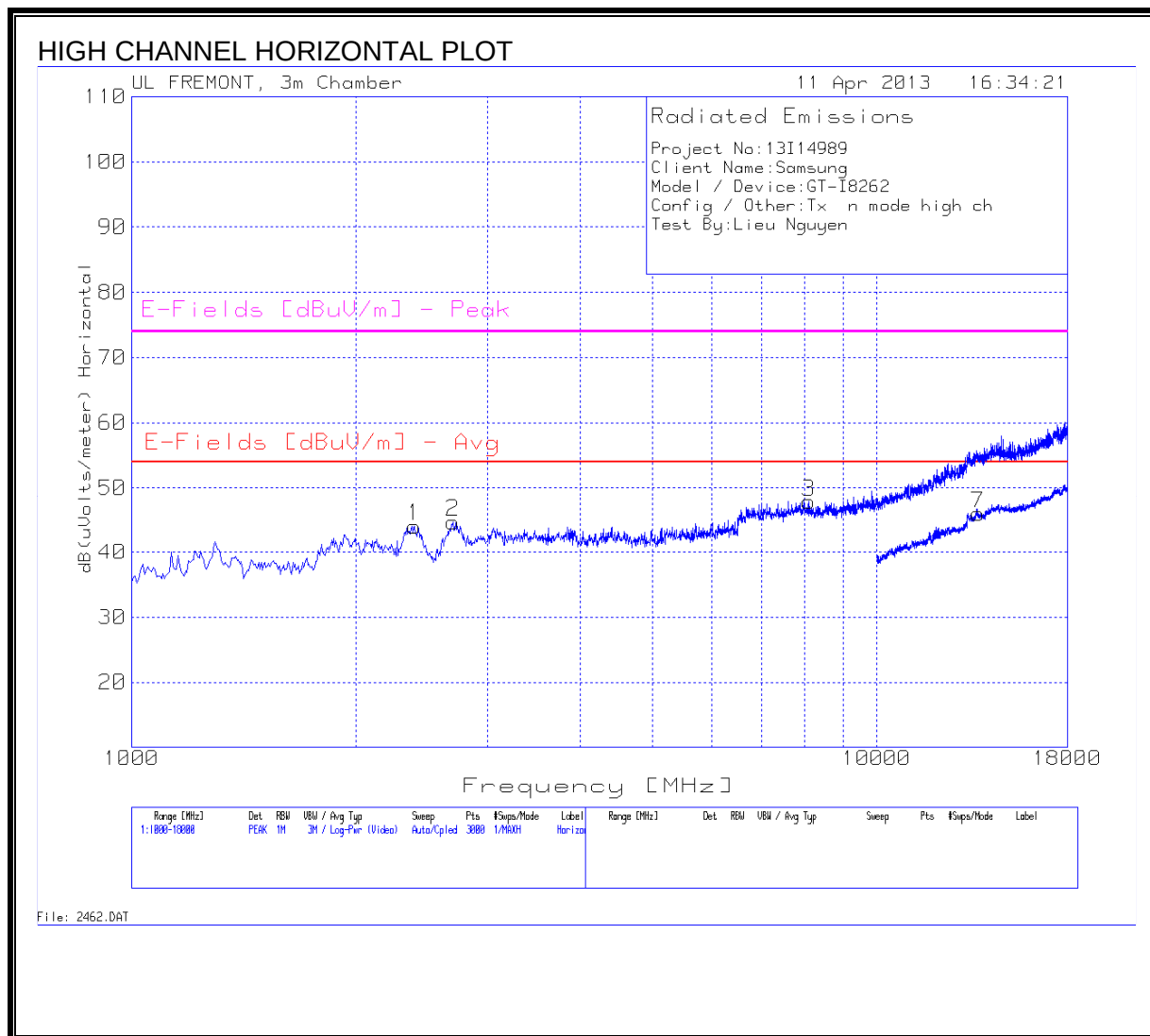


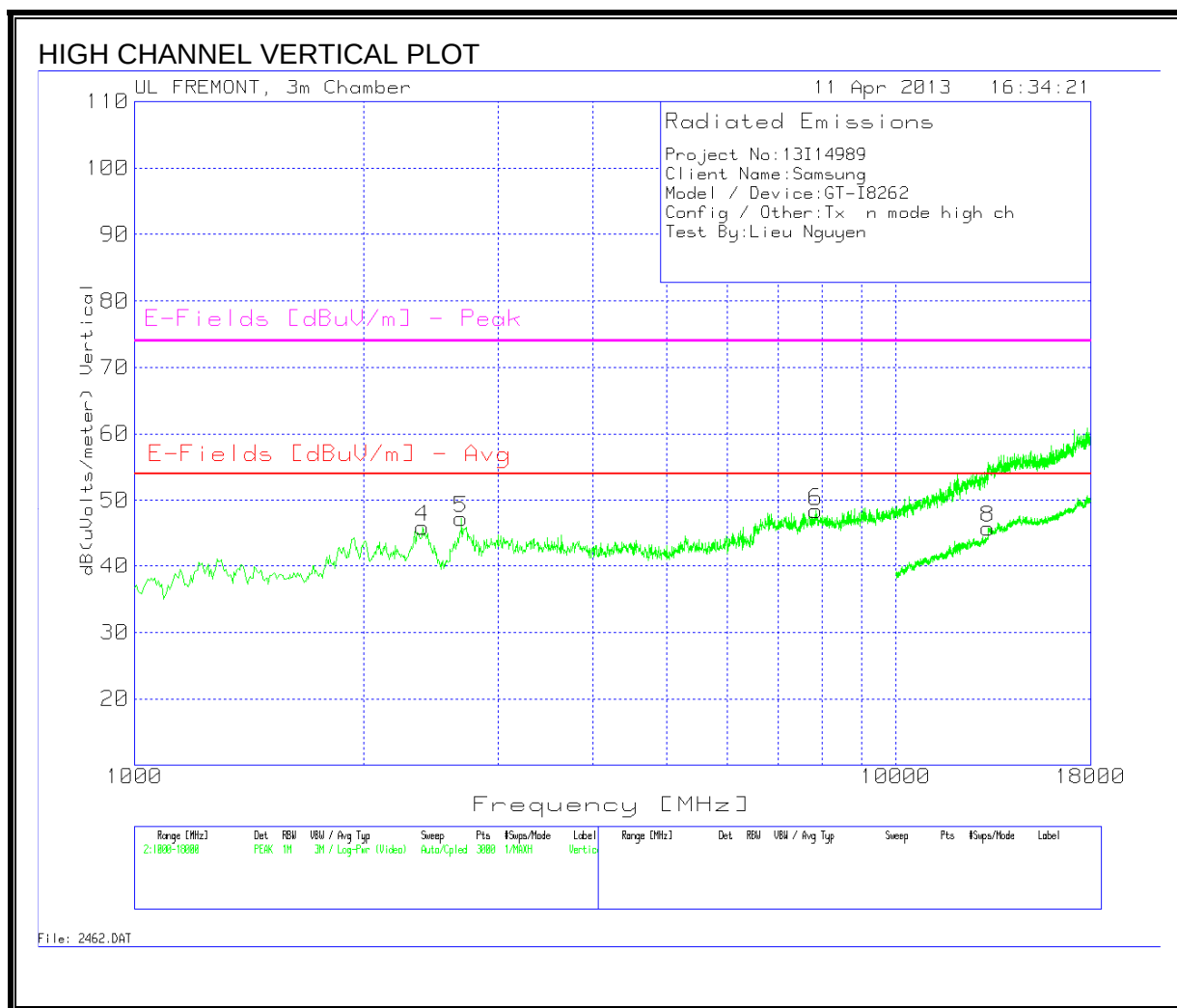


MID CHANNEL HORIZONTAL AND VERTICAL DATA

Project No:13I14989											
Client Name:Samsung											
Model / Device:GT-I8262											
Config / Other:Tx n mode mid ch											
Test By:Lieu Nguyen											

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector Pk/Avg	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)
Horizontal 1000 - 18000MHz											
1	2721.519	40.95	PK	32.6	-29	0.9	45.45	54	-8.52	74	-28.55
2	4307.129	36.46	PK	33.6	-26	0.2	44.26	54	-9.71	74	-29.74
3	7631.246	34.88	PK	35.8	-22.8	0.3	48.18	54	-5.79	74	-25.82
Vertical 1000 - 18000MHz											
4	2432.712	41.26	PK	32.2	-29.7	0.9	45.56	54	-8.44	74	-28.44
5	2755.496	40.21	PK	32.7	-28.9	0.9	45.81	54	-8.19	74	-28.19
6	8322.119	35.17	PK	35.8	-22.2	0.3	49.37	54	-4.63	74	-24.63
Horizontal 10000 - 18000MHz											
7	14185.91	22.56	PK	39.1	-15.8	0.4	46.66	54	-7.34	74	-27.34
Vertical 10000 - 18000MHz											
8	14769.62	22.46	PK	39.7	-16	0.4	46.96	54	-7.04	74	-27.04





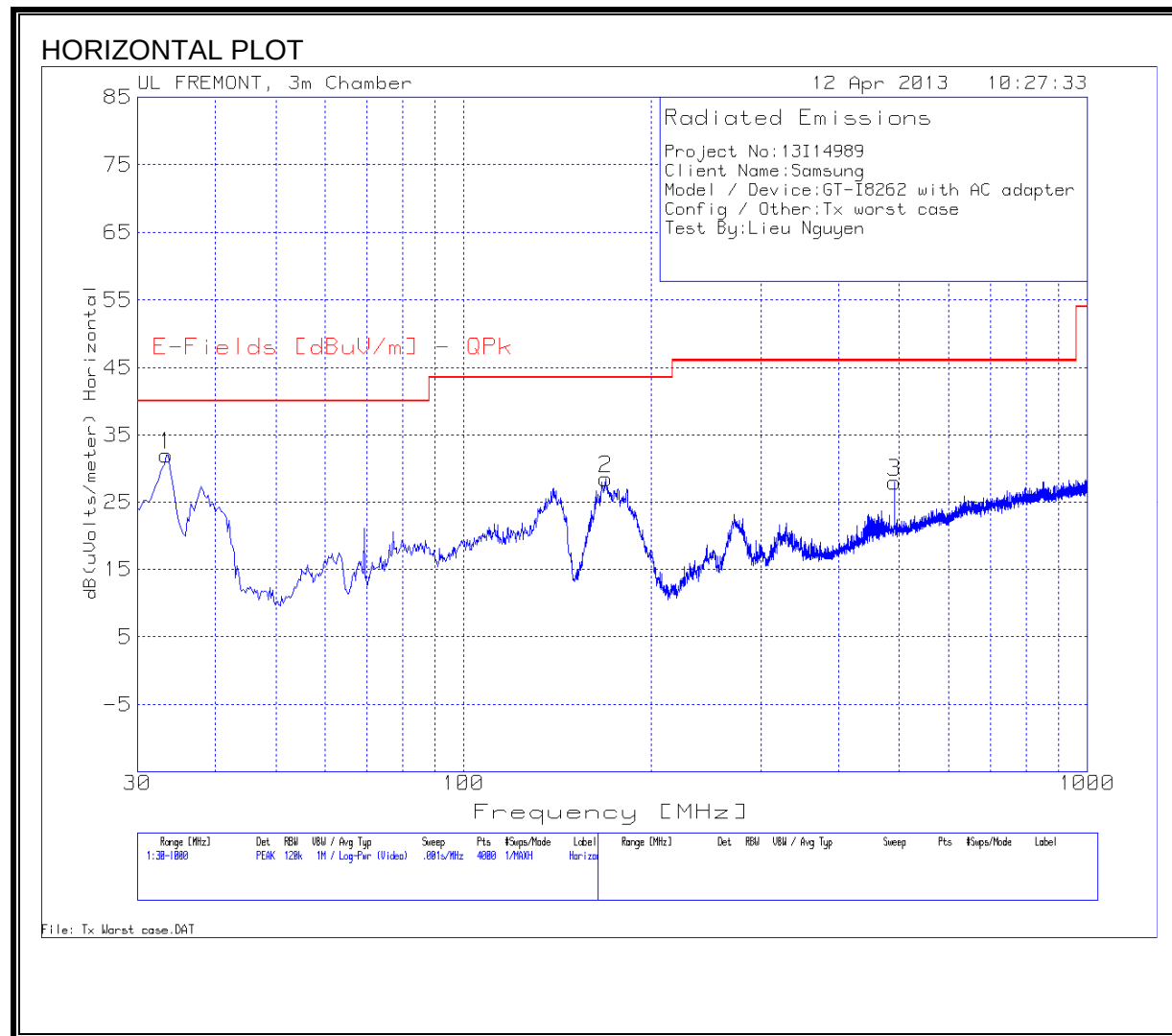
HIGH CHANNEL HORIZONTAL AND VERTICAL DATA

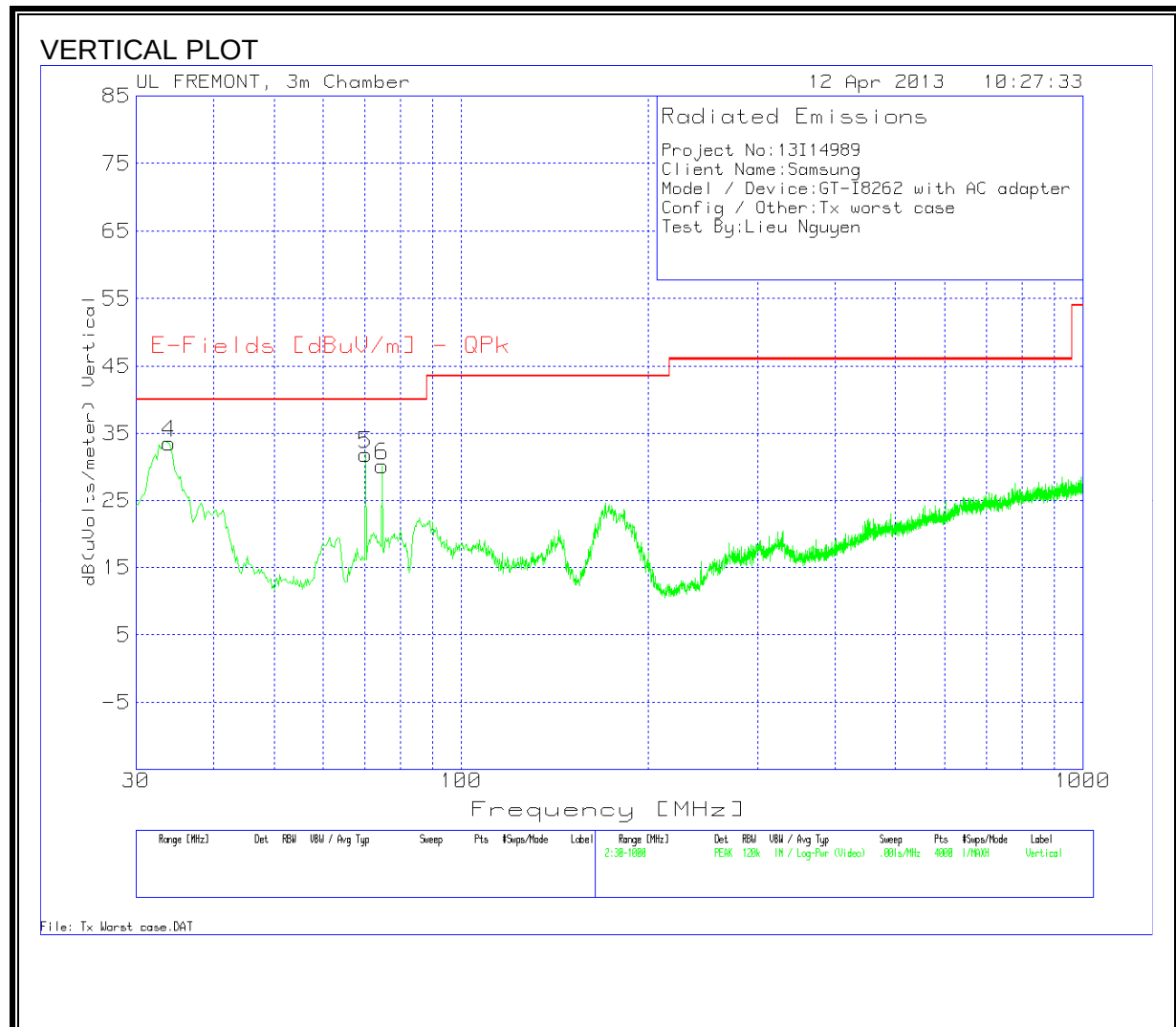
Project No:13I14989											
Client Name:Samsung											
Model / Device:GT-I8262											
Config / Other:Tx n mode high ch											
Test By:Lieu Nguyen											

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector Pk/Avg	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)
Horizontal 1000 - 18000MHz											
1	2393.071	40.68	PK	32.1	-29.7	0.9	43.98	54	-9.99	74	-30.02
2	2698.867	40.13	PK	32.6	-29	0.9	44.63	54	-9.34	74	-29.37
3	8106.929	34.1	PK	35.7	-22.3	0.3	47.8	54	-6.17	74	-26.2
Vertical 1000 - 18000MHz											
4	2387.408	41.62	PK	32.1	-29.7	0.9	45.82	54	-8.18	74	-28.18
5	2687.542	41.72	PK	32.6	-29	0.9	47.12	54	-6.88	74	-26.88
6	7840.773	34.68	PK	35.8	-22.7	0.3	48.38	54	-5.62	74	-25.62
Horizontal 10000 - 18000MHz											
7	13666.17	22.45	PK	38.8	-16.1	0.4	45.95	54	-8.05	74	-28.05
Vertical 10000 - 18000MHz											
8	13202.4	22.62	PK	39	-16.7	0.4	45.72	54	-8.28	74	-28.28

10.3. WORST-CASE BELOW 1 GHz

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





HORIZONTAL AND VERTICAL DATA

Project No:13U14989										
Client Name:Samsung										
Model / Device:GT-I8262 with AC adapter										
Config / Other:Tx worst case										
Test By:Lieu Nguyen										

Horizontal 30 - 1000MHz										
Marker No.	Test Frequency	Meter Reading	Detector	T130 Ant Factor [dB/m]	T64 preamp/ cable loss [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - QPk	Margin (dB)	Height [cm]	Polarity
1	33.3925	41.25	PK	18.4	-27.6	32.05	40	-7.95	301	Horz
2	169.0907	43.37	PK	11.8	-26.6	28.57	43.52	-14.95	99	Horz
3	491.374	34.85	PK	17.8	-24.6	28.05	46.02	-17.97	201	Horz

Vertical 30 - 1000MHz										
Marker No.	Test Frequency	Meter Reading	Detector	T130 Ant Factor [dB/m]	T64 preamp/ cable loss [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - QPk	Margin (dB)	Height [cm]	Polarity
4	33.8771	43.07	PK	18.1	-27.6	33.57	40	-6.43	199	Vert
5	70.2248	51.12	PK	8.1	-27.3	31.92	40	-8.08	199	Vert
6	74.5866	49.48	PK	7.9	-27.2	30.18	40	-9.82	199	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.

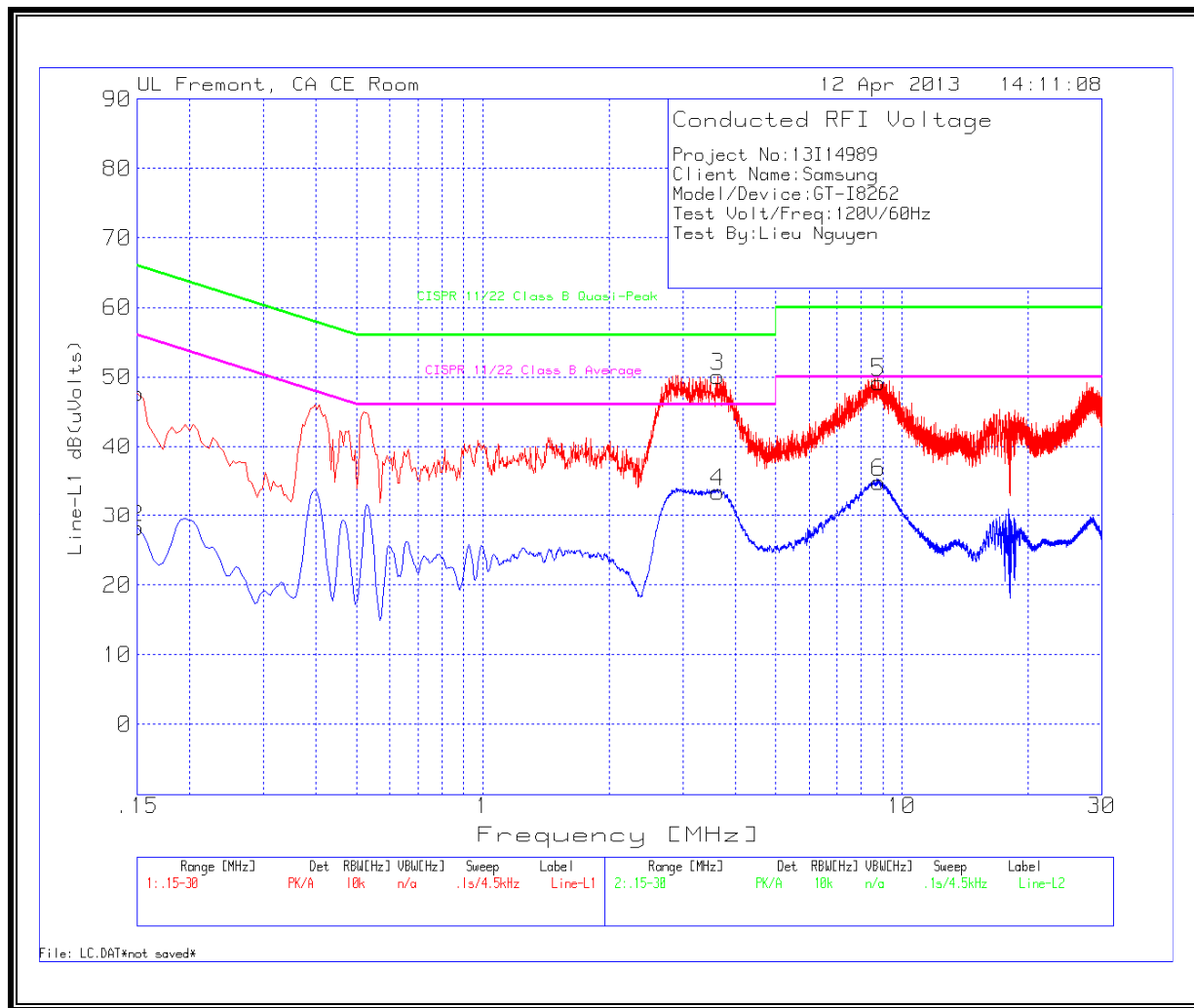
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

Project No:13I14989									
Client Name:Samsung									
Model/Device:GT-I8262									
Test Volt/Freq:120V/60Hz									
Test By:Lieu Nguyen									
Line-L1 .15 - 30MHz									
Test Frequency MHz	Meter Reading	Detector	T24 dB	LC Cables dB	Corrected Rading dB(μV)	CISPR 11/22 Class B Quasi-Peak dB	Pk Margin dB	CISPR 11/22 Class B Average dB	Av Margin dB
0.15	47.58	PK	0.1	0	47.68	66	-18.32	-	-
0.15	28.06	Av	0.1	0	28.16	-	-	56	-27.84
3.6375	49.83	PK	0.2	0.1	50.13	56	-5.87	-	-
3.6375	33.16	Av	0.2	0.1	33.46	-	-	46	-12.54
8.8215	49.05	PK	0.1	0.1	49.25	60	-10.75	-	-
8.8215	34.65	Av	0.1	0.1	34.85	-	-	50	-15.15
Line-L2 .15 - 30MHz									
0.4065	42.84	PK	0.1	0	42.94	57.7	-14.76	-	-
0.4065	30.09	Av	0.1	0	30.19	-	-	47.7	-17.51
2.9715	45.22	PK	0.1	0.1	45.42	56	-10.58	-	-
2.9715	30.31	Av	0.1	0.1	30.51	-	-	46	-15.49

LINE 1 RESULTS



LINE 2 RESULTS

