



**FCC CFR47 PART 15 SUBPART C
CERTIFICATION TEST REPORT**

FOR

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

MODEL NUMBER: SM-G7508Q

FCC ID: A3LSMG7508Q

REPORT NUMBER: 14U18167-4 REVISION A

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Date	Revisions	Revised By
--	7/10/14	Initial Issue	P. Zhang
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/WCDMA/LTE Phablet + Bluetooth, DTS/UNII a/b/g/n, ANT+ & NFC
MODEL: SM-G7508Q
SERIAL NUMBER: FL-244-D (Conducted), FL-244-B (Radiated)
DATE TESTED: JUNE 30 – JULY 8, 2014

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

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

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

Approved & Released

For UL Verification Services Inc. By:



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UL Verification Services Inc.

Tested By:



STEVEN TRAN
CONSUMER TECHNOLOGY DIVISION
LAB ENGINEER
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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 C63.4-2009, 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 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
<input type="checkbox"/> Chamber A	<input type="checkbox"/> Chamber D
<input checked="" type="checkbox"/> Chamber B	<input type="checkbox"/> Chamber E
<input checked="" type="checkbox"/> Chamber C	<input type="checkbox"/> Chamber F

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

4.3. MEASUREMENT UNCERTAINTY

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

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

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Phablet + Bluetooth, DTS/UNII a/b/g/n, ANT+ & NFC.

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	16	39.81
2412 - 2462	802.11g	13.2	20.89
2412 - 2462	802.11n HT20	12.4	17.38

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of 0.14 dBi.

5.4. WORST-CASE CONFIGURATION AND MODE

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

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

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

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Samsung	SM-G7508Q	N/A	N/A
Earphone	Samsung	SM-G7508Q	N/A	N/A

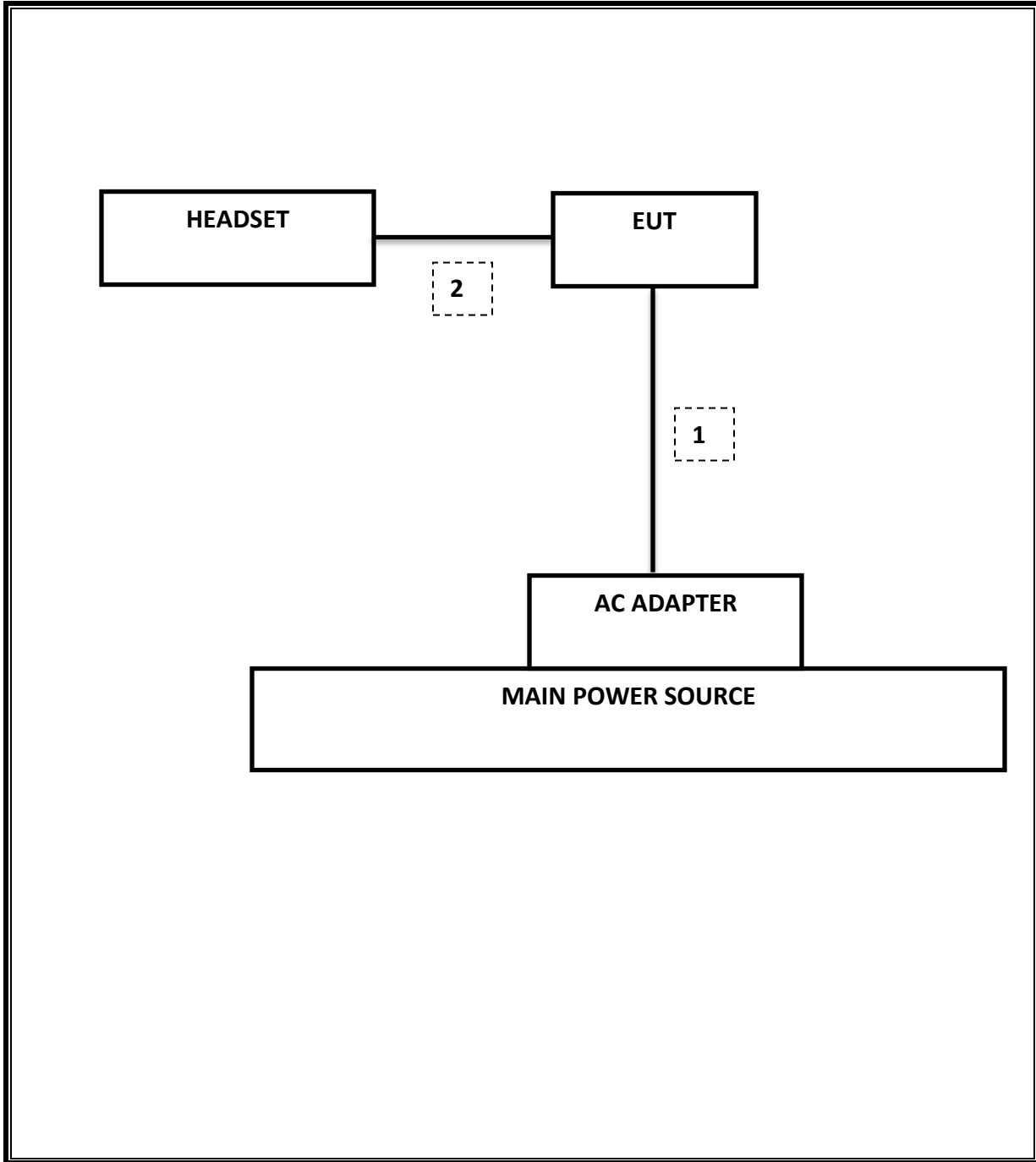
I/O CABLES

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

TEST SETUP

The EUT is a stand-alone unit during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/14
Spectrum Analyzer,9KHz-40GHz	HP	8564E	C00986	04/01/15
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	1000741	08/13/14
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/18/14
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/14
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/14
Antenna, Horn, 1-18 GHz	ETS	3117	C01022	02/21/15
Antenna, Horn,18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/14
Antenna, Horn, 26-40 GHz	ARA	MWH-2640	C00891	06/28/15
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	03/06/15
RF Preamplifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/15
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/15
RF Preamplifier, 1GHz - 26.5GHz	HP	8449B	F00351	06/27/15
AC Power Supply, 2,500VA 45-500Hz	Elgar-Ametek	CW2501M	F00013	CNR
RF Preamplifier, 1GHz - 40GHz	Miteq	NSP4000-SP2	C00990	08/20/14
Attenuator / Switch driver	HP	11713A	F00204	CNR
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	F00219	05/23/15
High Pass Filter 5GHz	Micro-Tronics	HPS17542	F00222	05/22/15
High Pass Filter 6GHz	Micro-Tronics	HPM17543	F00224	05/22/15

7. MEASUREMENT METHODS

KDB 558074 D01 DTS Meas Guidance v03r02: Measurement Procedure AVGPM-G is used for power and AVGPSD-3 is used for power spectral density.

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

Band edge emissions within Restricted Bands are measured using RMS with duty cycle factor offset method.

8. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	RSS-210 A8.2(a)	Occupied Band width (6dB)	>500KHz	Conducted	Pass	8.54 MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-31.95 dBm
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	16.00dBm
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	-14.63dBm
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	39.74dBuV
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	47.91 dBuV/m

9. ANTENNA PORT TEST RESULTS

9.1. 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

Reference to KDB 558074 D01 DTS Meas Guidance v03r01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100kHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

9.1.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	8.54	0.5
Mid	2437	9.61	0.5
High	2462	10.13	0.5
Worst		8.54	

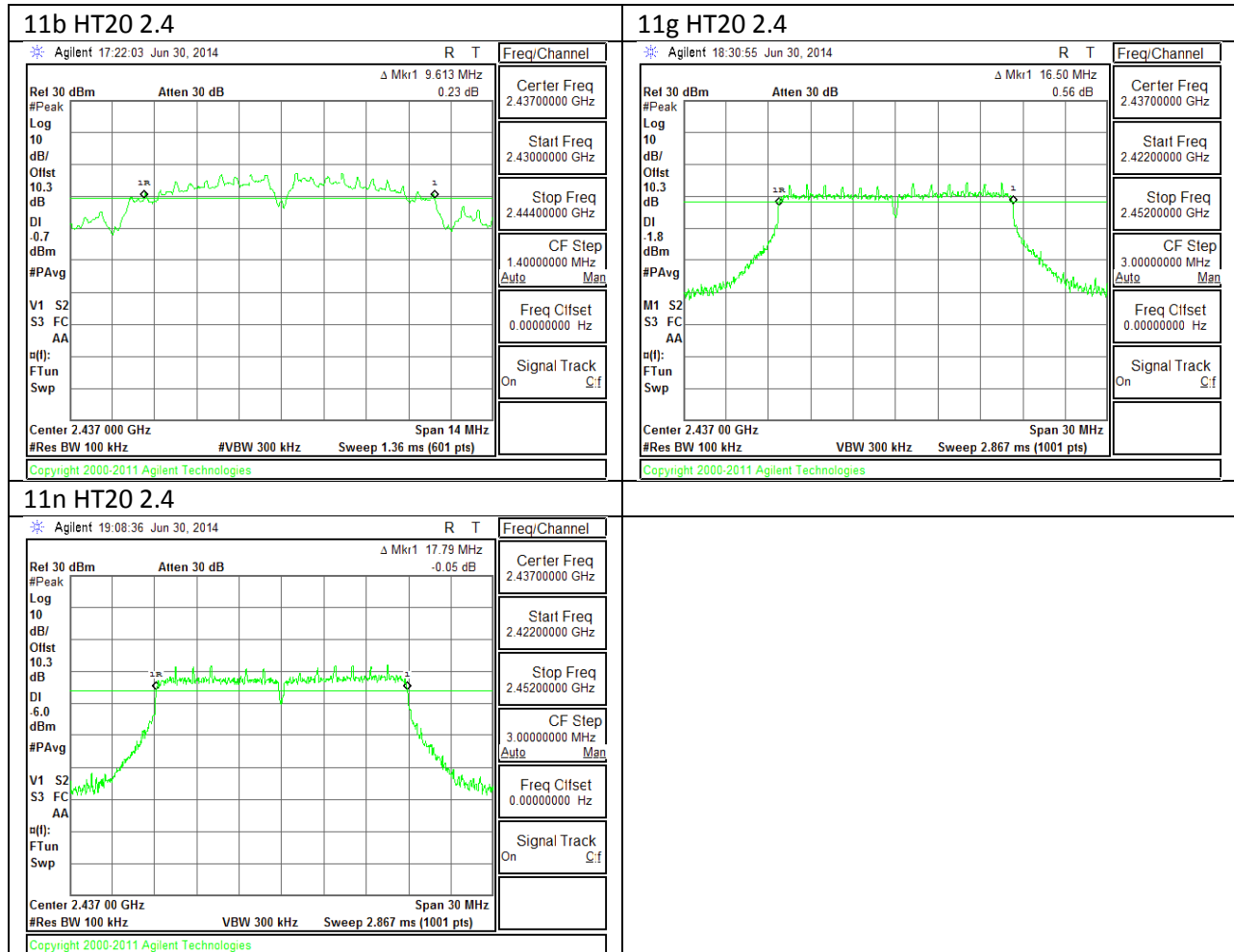
9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	16.50	0.5
Mid	2437	16.50	0.5
High	2462	16.53	0.5
Worst		16.50	

9.1.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	17.73	0.5
Mid	2437	17.79	0.5
High	2462	17.67	0.5
Worst		17.67	

9.1.4. 6 dB BANDWIDTH MID CH PLOTS



9.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

9.2.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	13.22
Mid	2437	13.36
High	2462	13.38
Worst		13.38

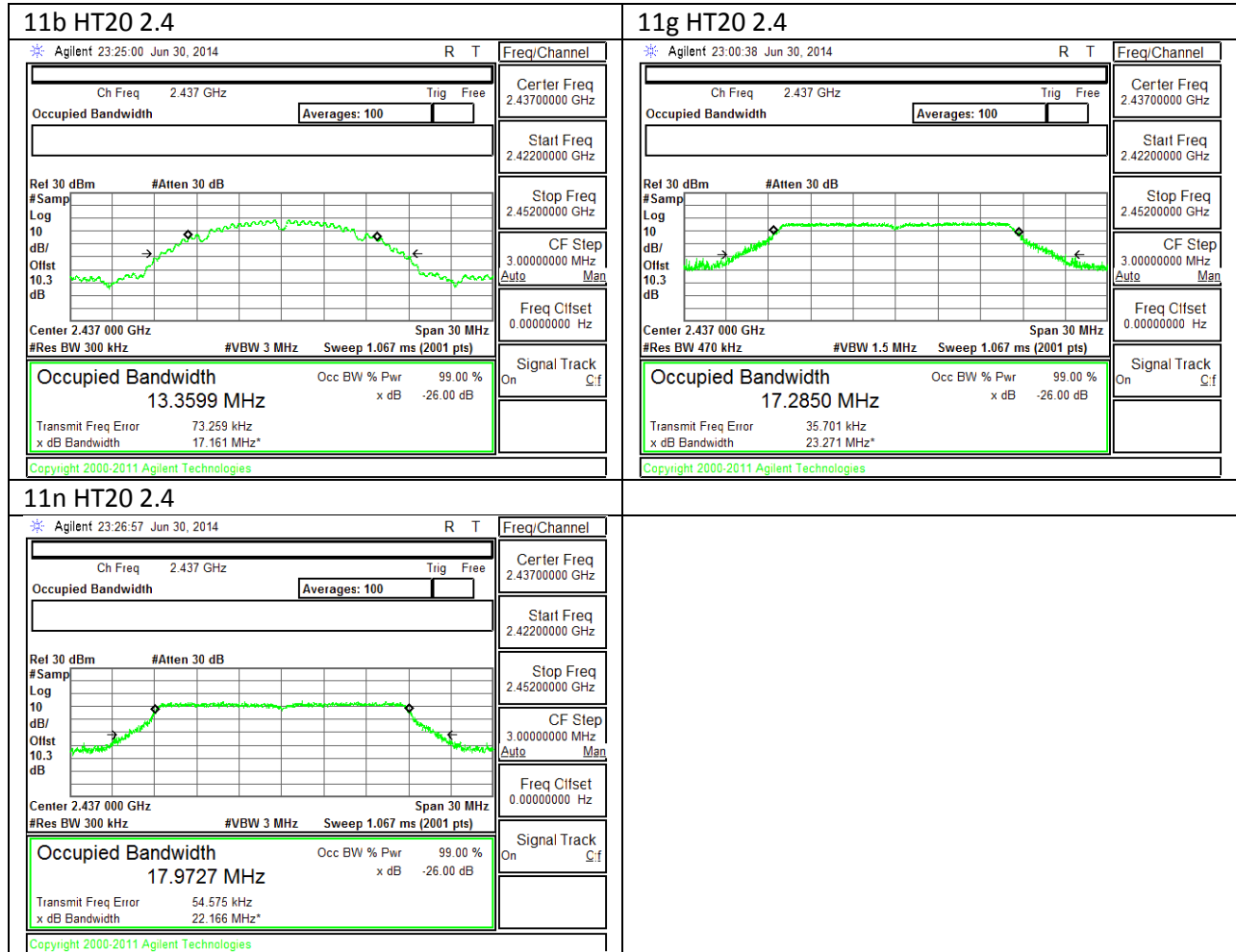
9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.24
Mid	2437	17.29
High	2462	17.34
Worst		17.34

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.96
Mid	2437	17.97
High	2462	18.00
Worst		18.00

9.2.4. 99% BANDWIDTH MID CH PLOTS



9.3. 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.

TEST PROCEDURE

EUT connect to a wideband gated RF power meter through 10dB pad with gating function enabled.

EUT following below configuration:

EUT is configured to transmit continuously, or to transmit with a constant duty factor.

EUT is transmitting at its maximum power control level.

The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

9.3.1. 802.11b MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	0.14	30.00	30	36	30.00
Mid	2437	0.14	30.00	30	36	30.00
High	2462	0.14	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	15.90	15.90	30.00	-14.10
Mid	2437	16.00	16.00	30.00	-14.00
High	2462	15.20	15.20	30.00	-14.80
Worst			16.00		

9.3.2. 802.11g MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	0.14	30.00	30	36	30.00
Mid	2437	0.14	30.00	30	36	30.00
High	2462	0.14	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	13.20	13.20	30.00	-16.80
Mid	2437	13.20	13.20	30.00	-16.80
High	2462	12.70	12.70	30.00	-17.30
Worst			13.20		

9.3.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	0.14	30.00	30	36	30.00
Mid	2437	0.14	30.00	30	36	30.00
High	2462	0.14	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	12.00	12.00	30.00	-18.00
Mid	2437	12.40	12.40	30.00	-17.60
High	2462	11.80	11.80	30.00	-18.20
Worst			12.40		

9.4. 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

9.4.1. 802.11b MODE IN THE 2.4 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-14.63	8.0	-22.6
Mid	2437	-15.21	8.0	-23.2
High	2462	-16.81	8.0	-24.8

9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

PSD Results

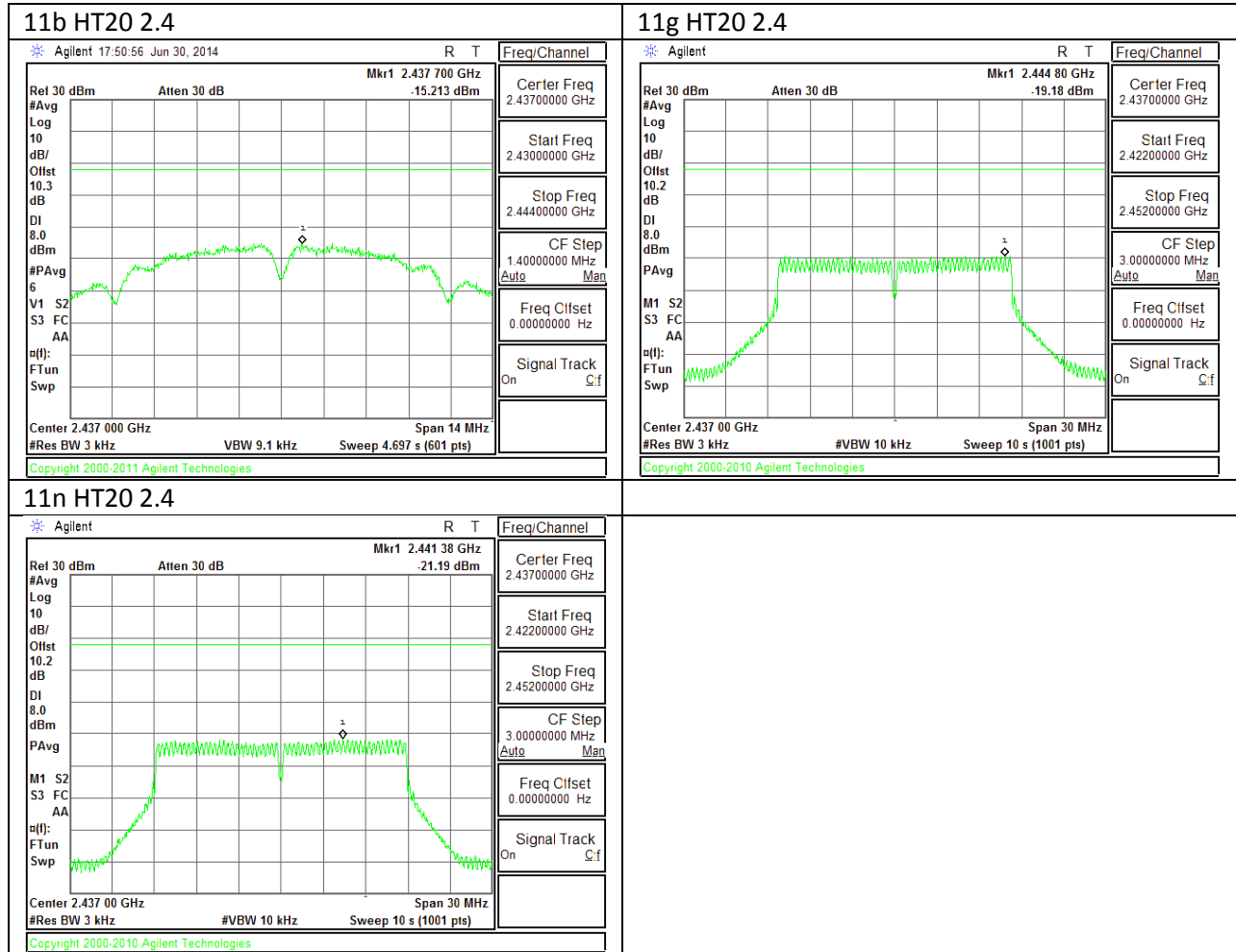
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-20.00	8.0	-28.0
Mid	2437	-19.18	8.0	-27.2
High	2462	-19.27	8.0	-27.3

9.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-21.71	8.0	-29.7
Mid	2437	-21.19	8.0	-29.2
High	2462	-21.38	8.0	-29.4

9.4.4. PSD Chain 0 MID CH PLOTS



9.5. 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.

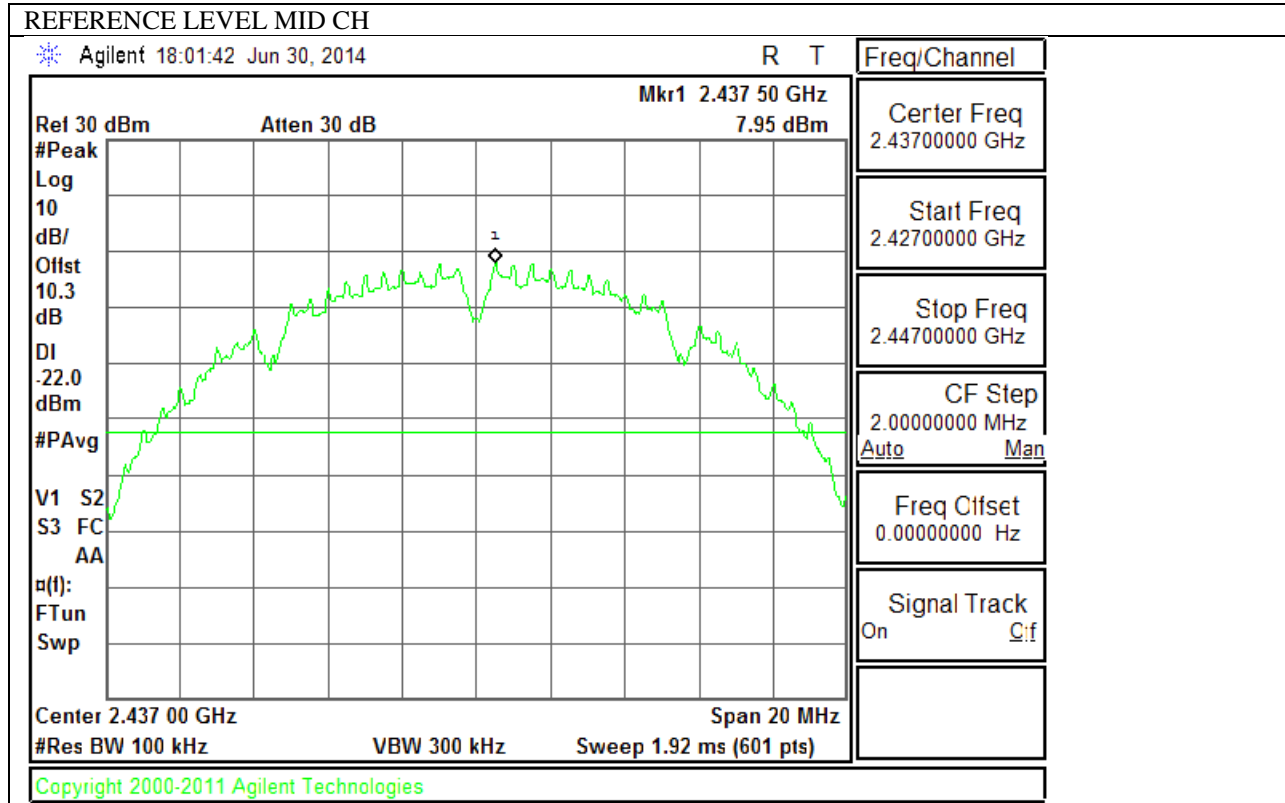
TEST PROCEDURE

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.

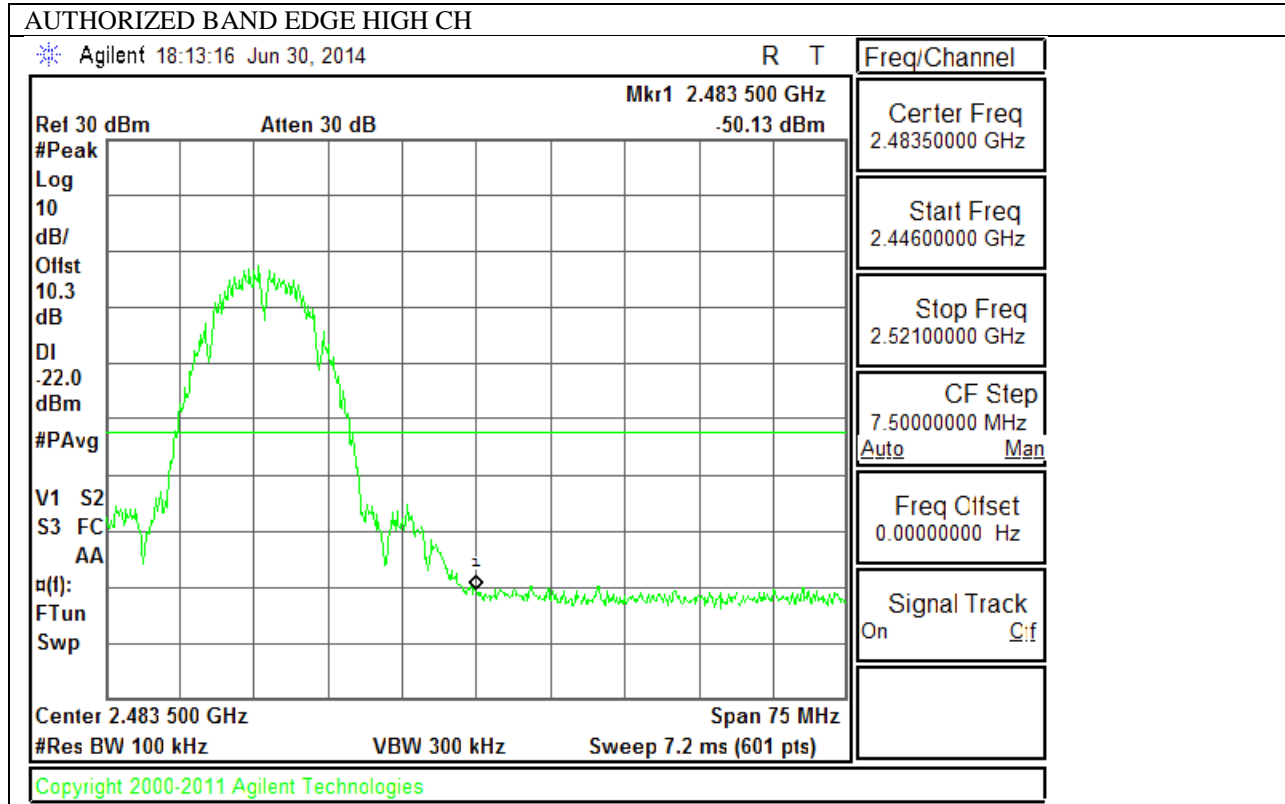
RESULTS

9.5.1. 802.11b MODE IN THE 2.4 GHz BAND

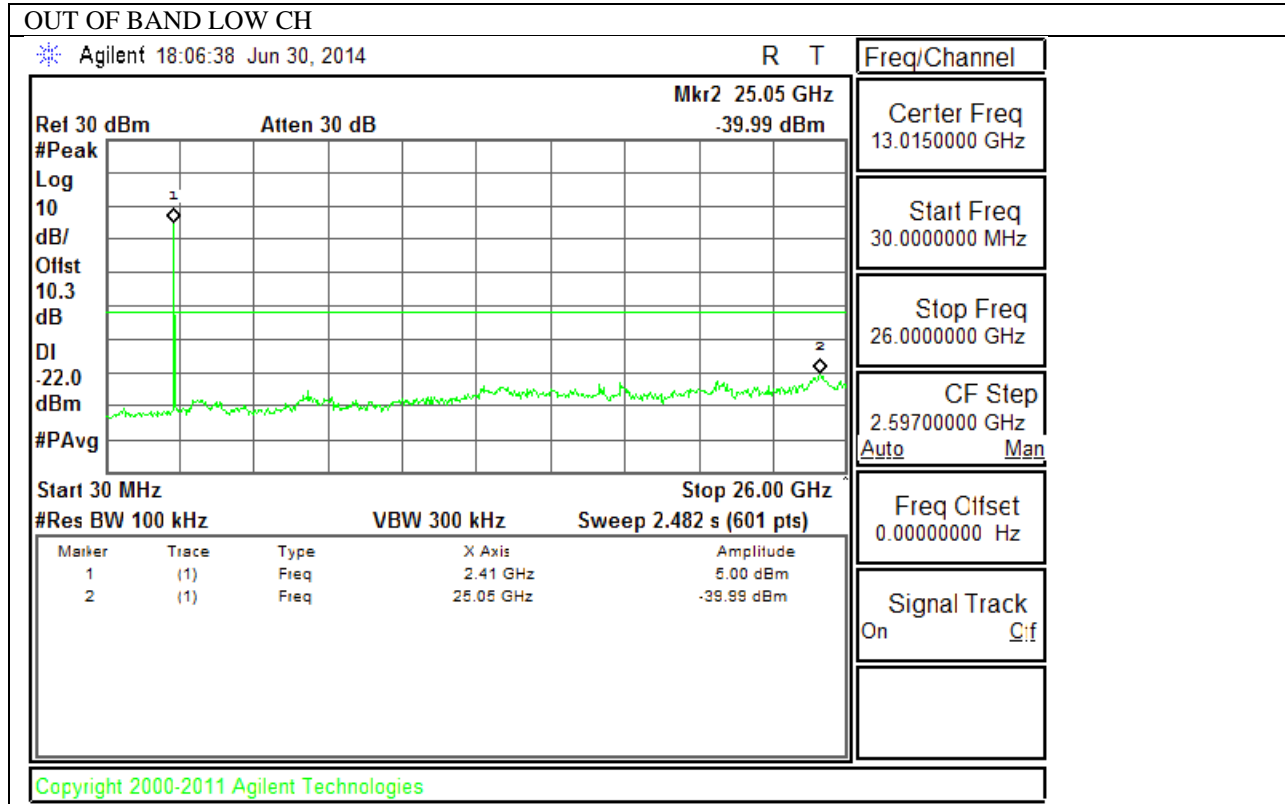
IN-BAND REFERENCE LEVEL

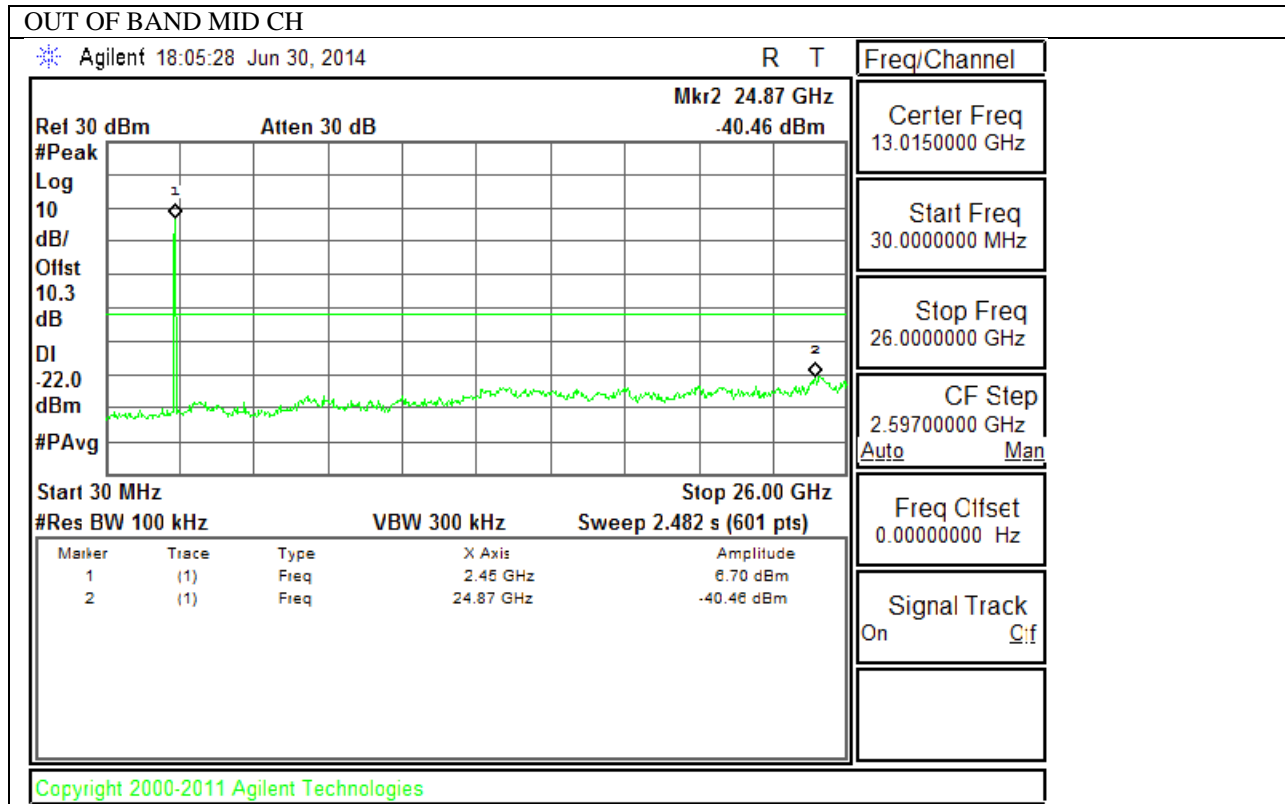


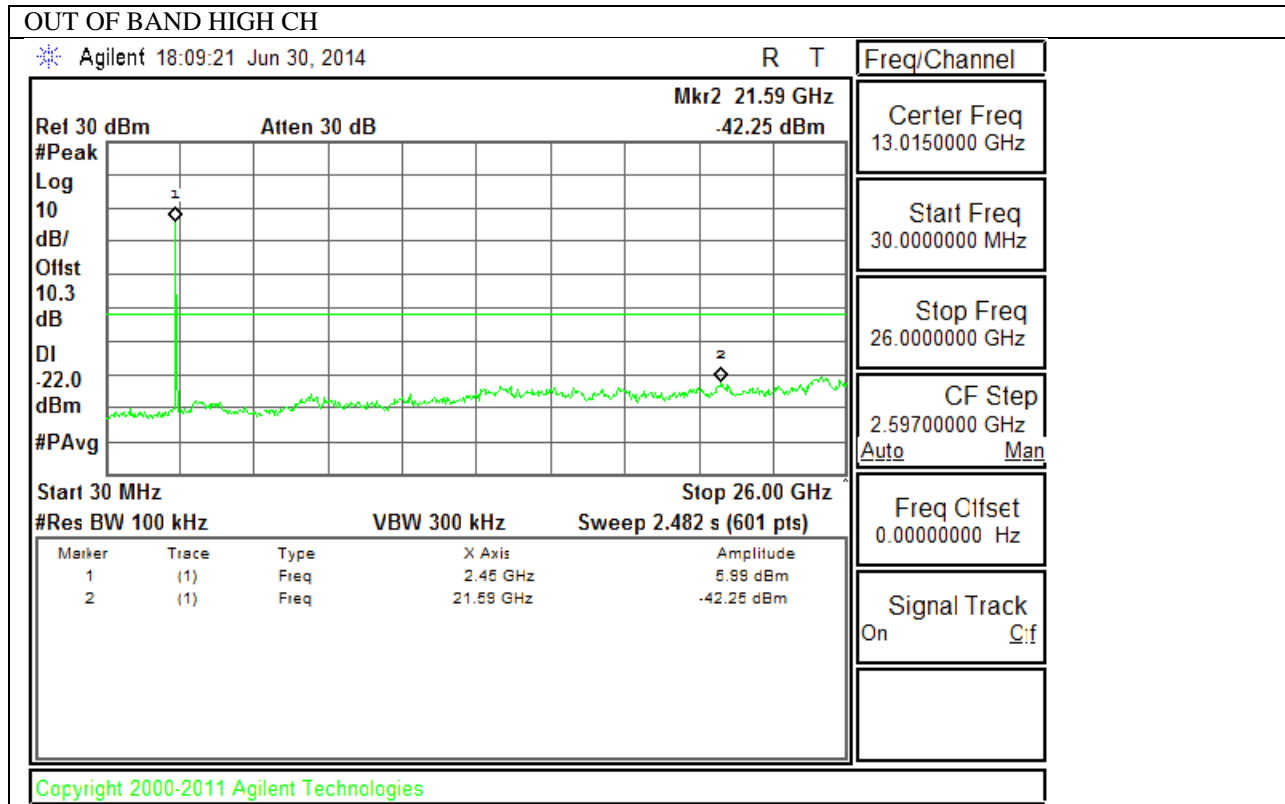
HIGH CHANNEL BANDEGE



OUT-OF-BAND EMISSIONS

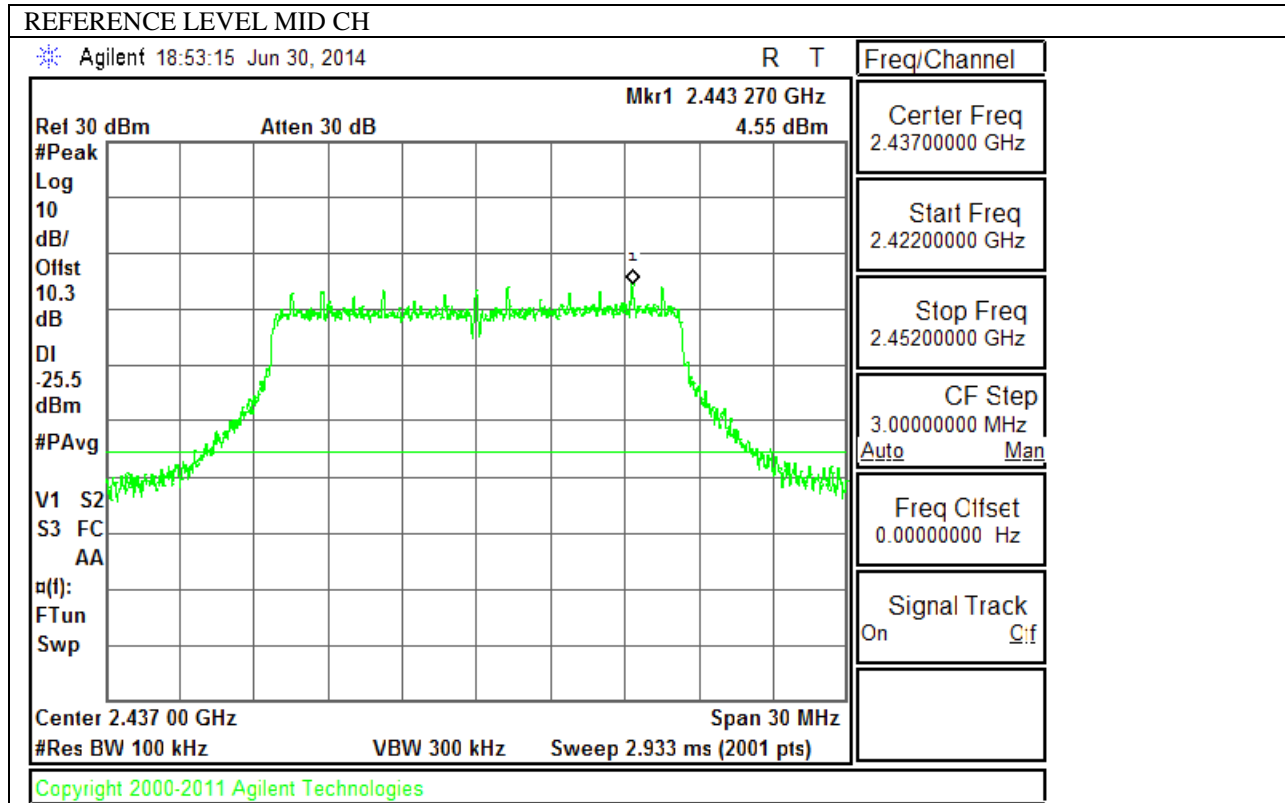




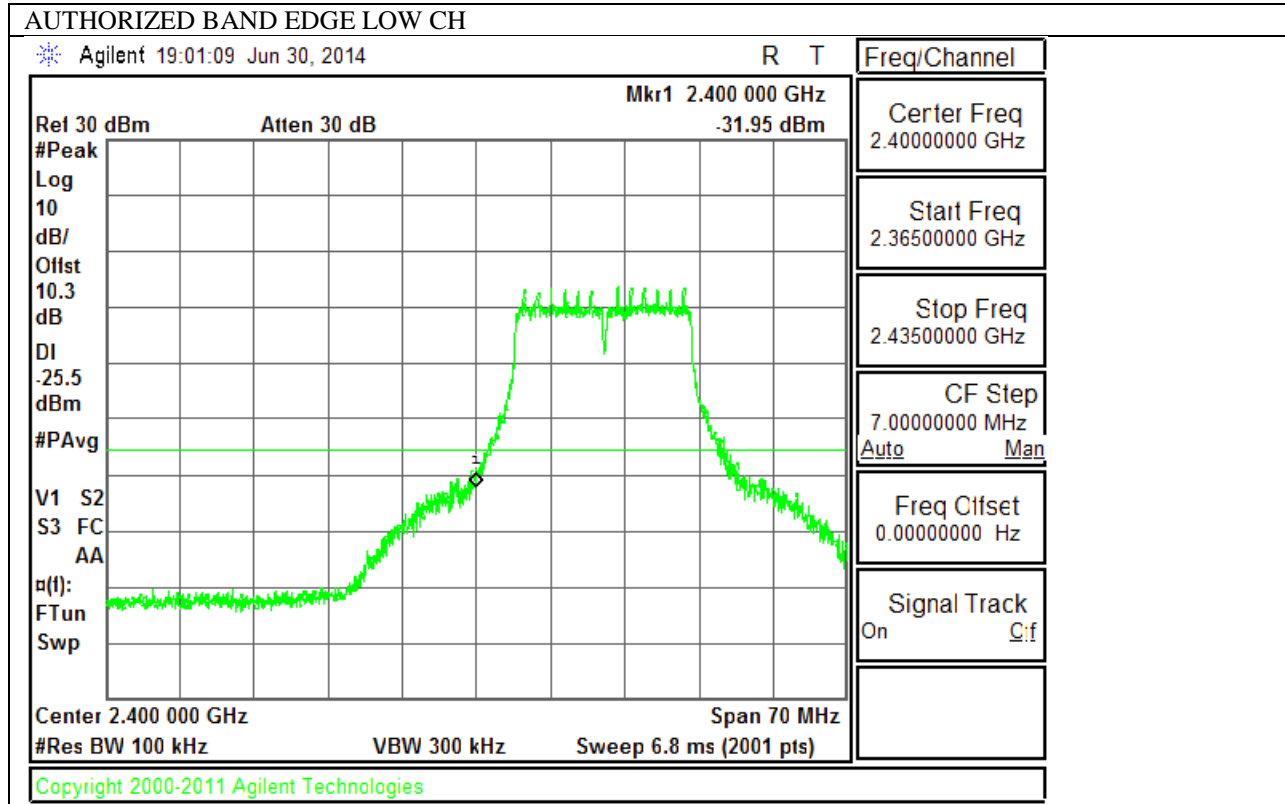


9.5.2. 802.11g MODE IN THE 2.4 GHz BAND

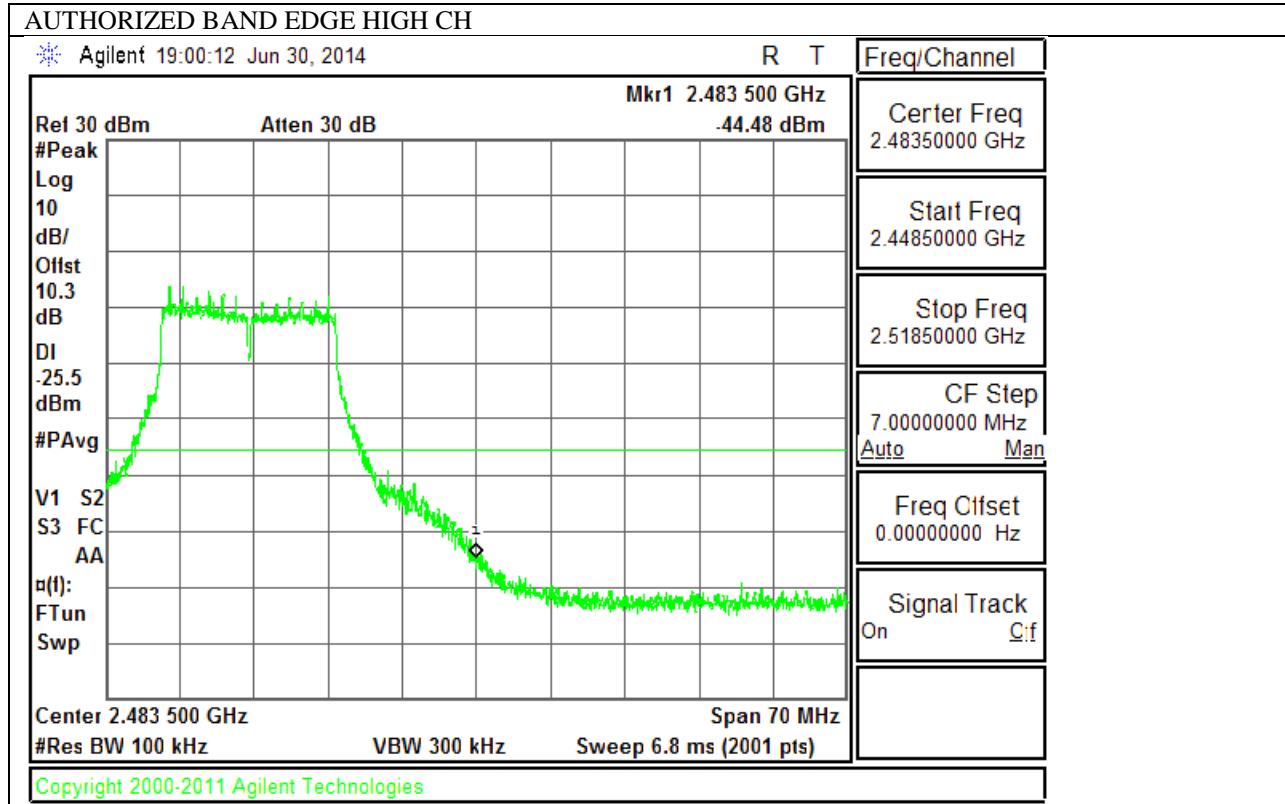
IN-BAND REFERENCE LEVEL



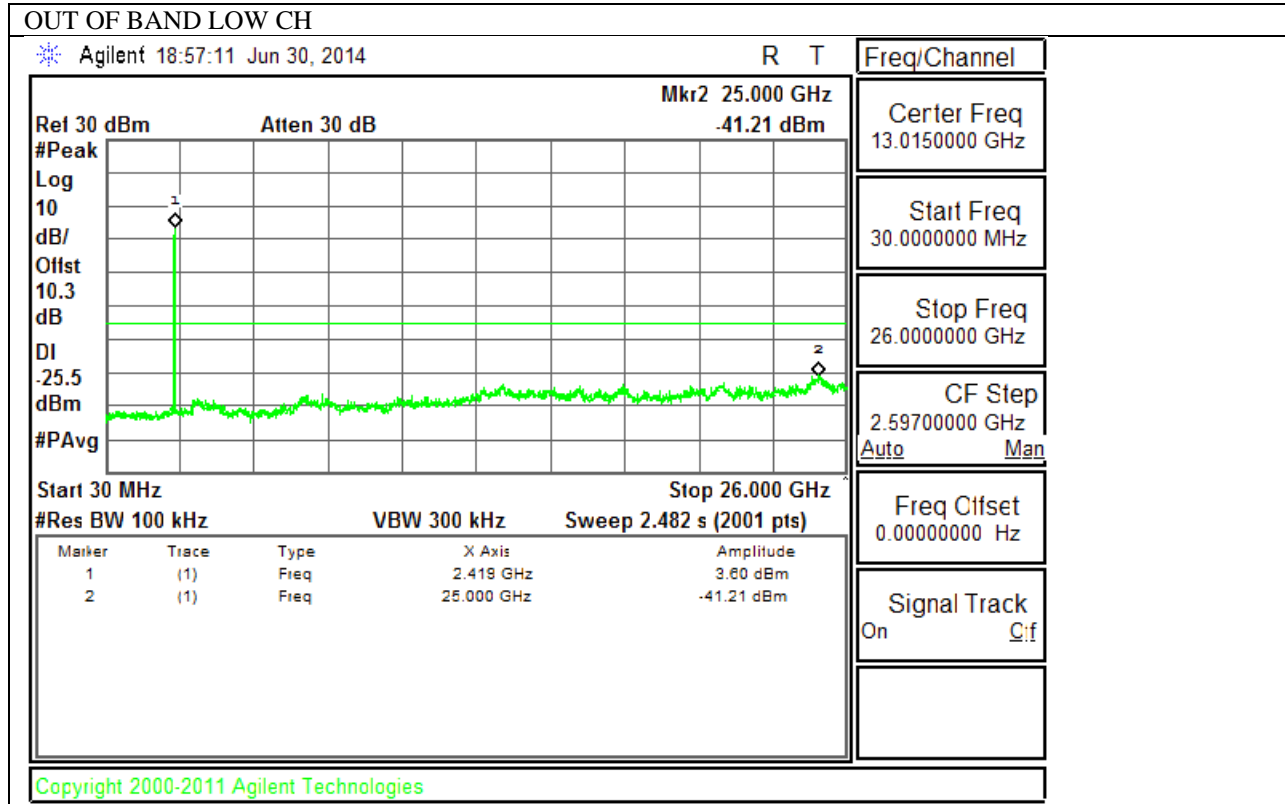
LOW CHANNEL BANDEDGE

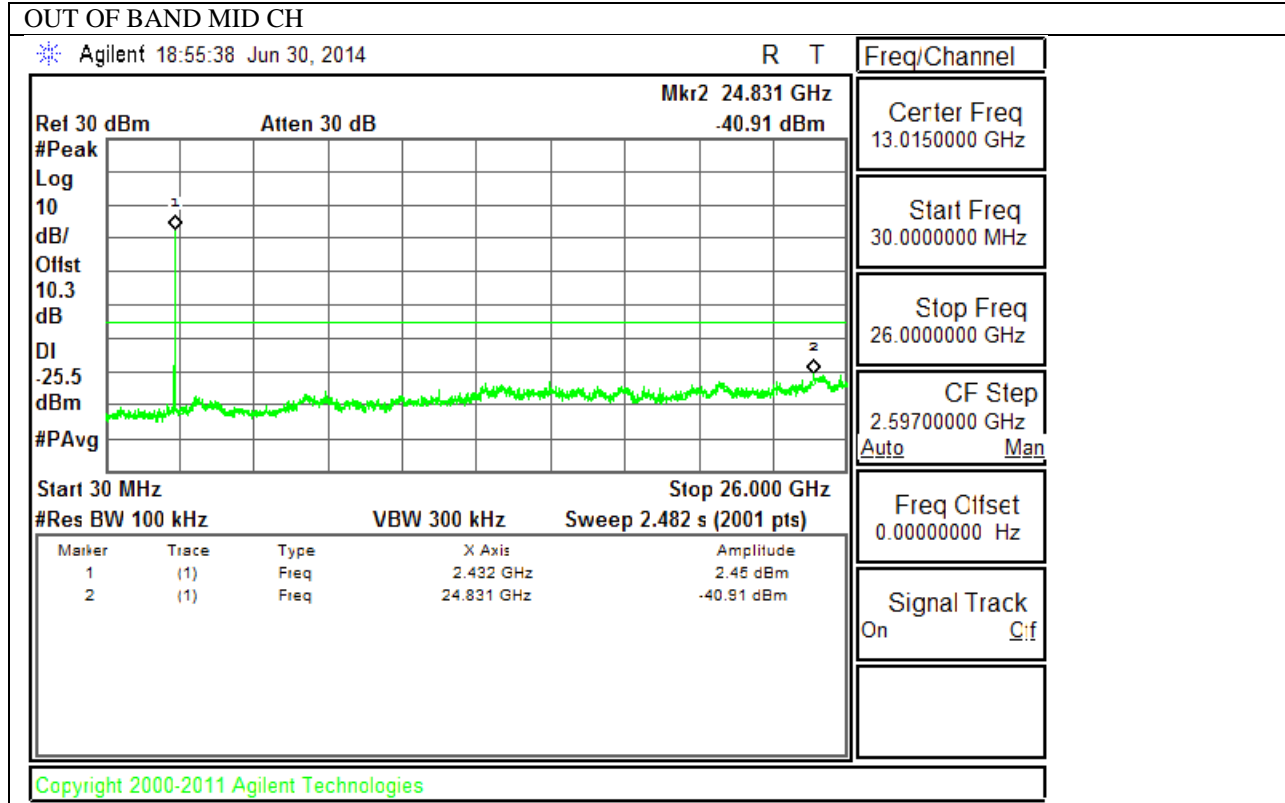


HIGH CHANNEL BANDEDGE

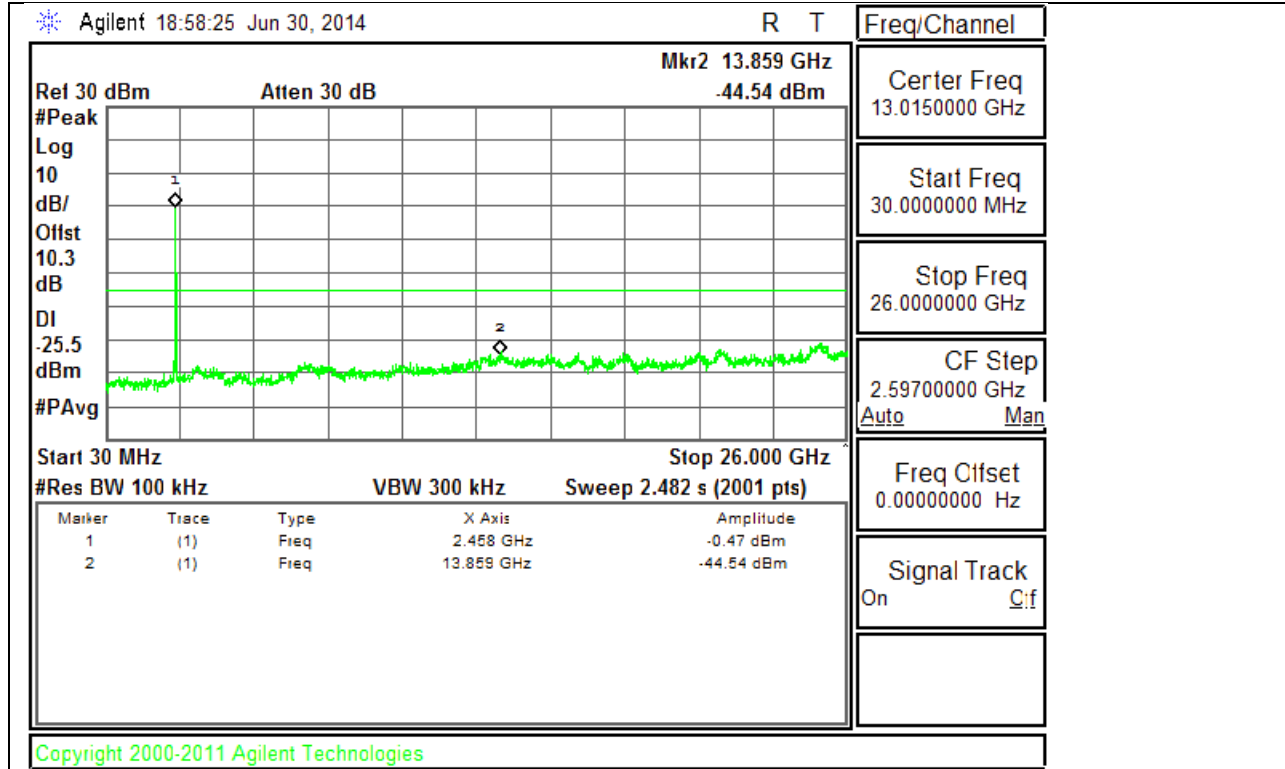


OUT-OF-BAND EMISSIONS



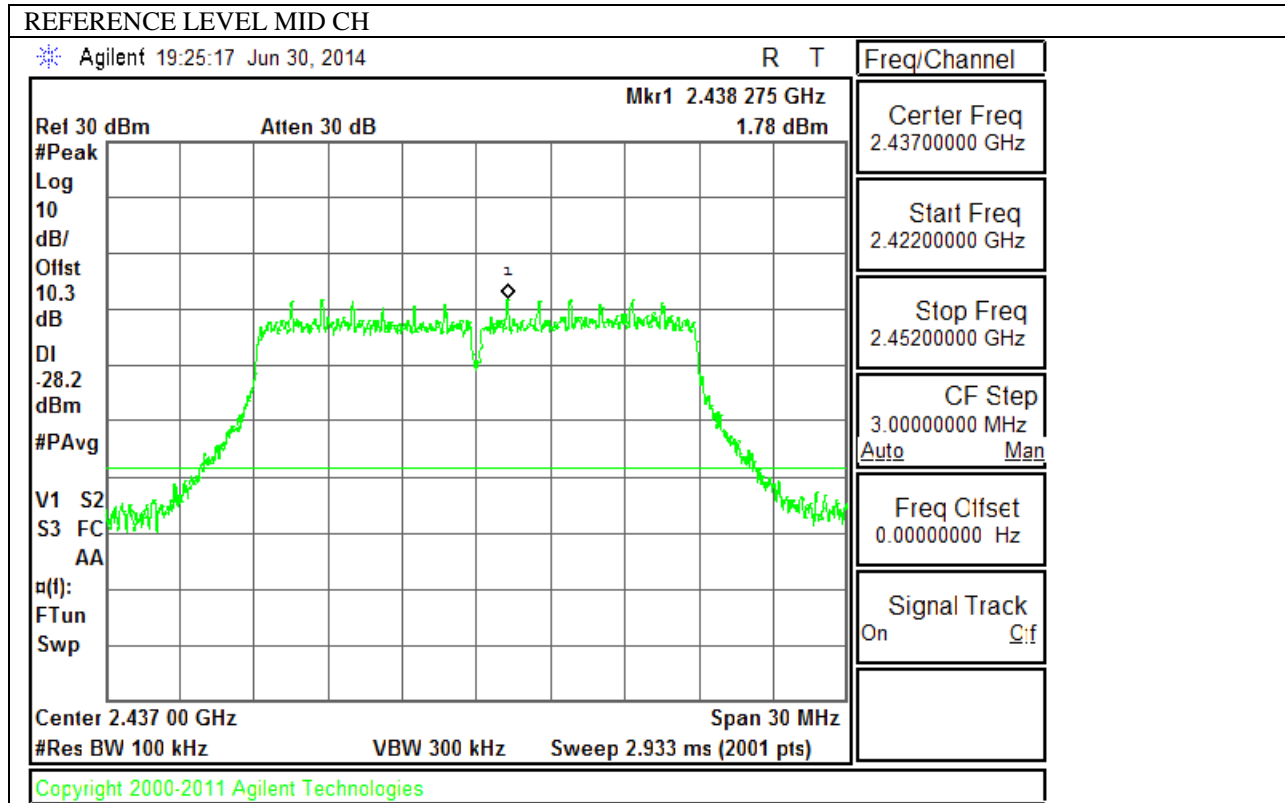


OUT OF BAND HIGH CH

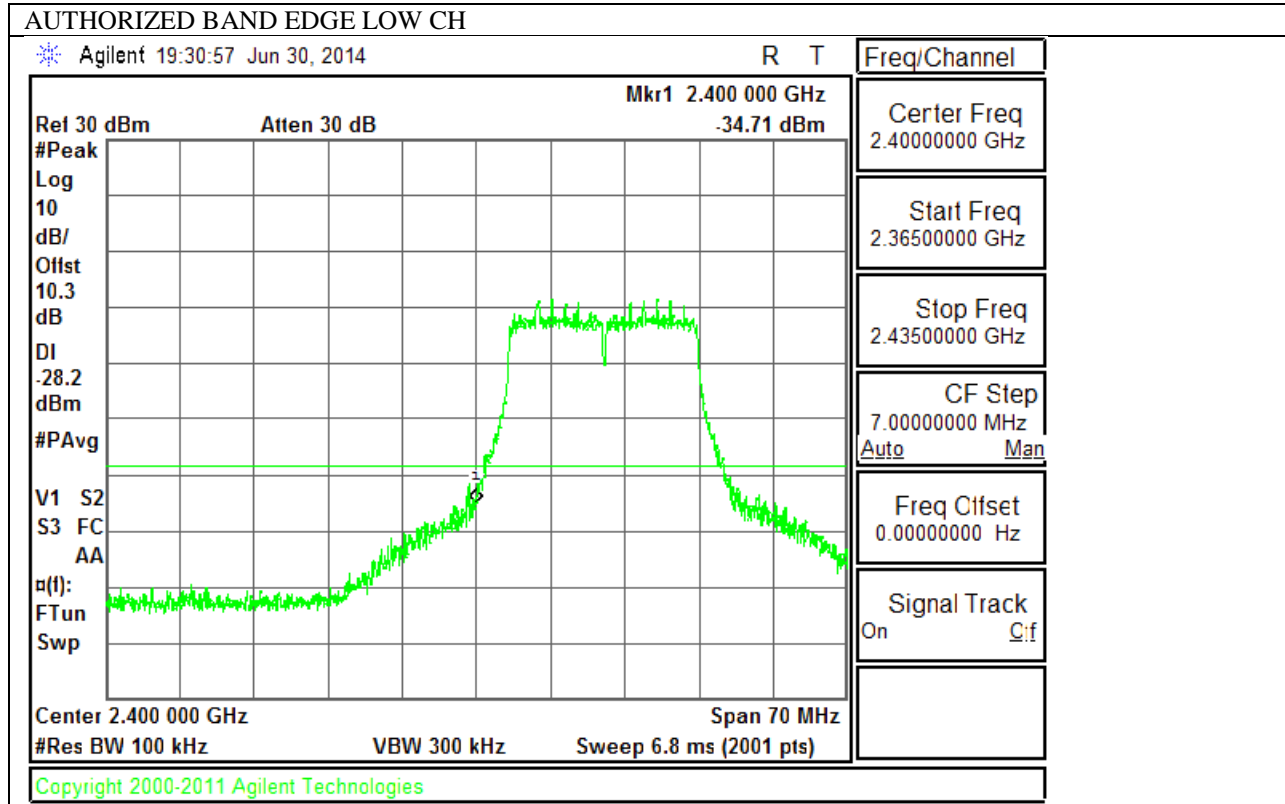


9.5.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

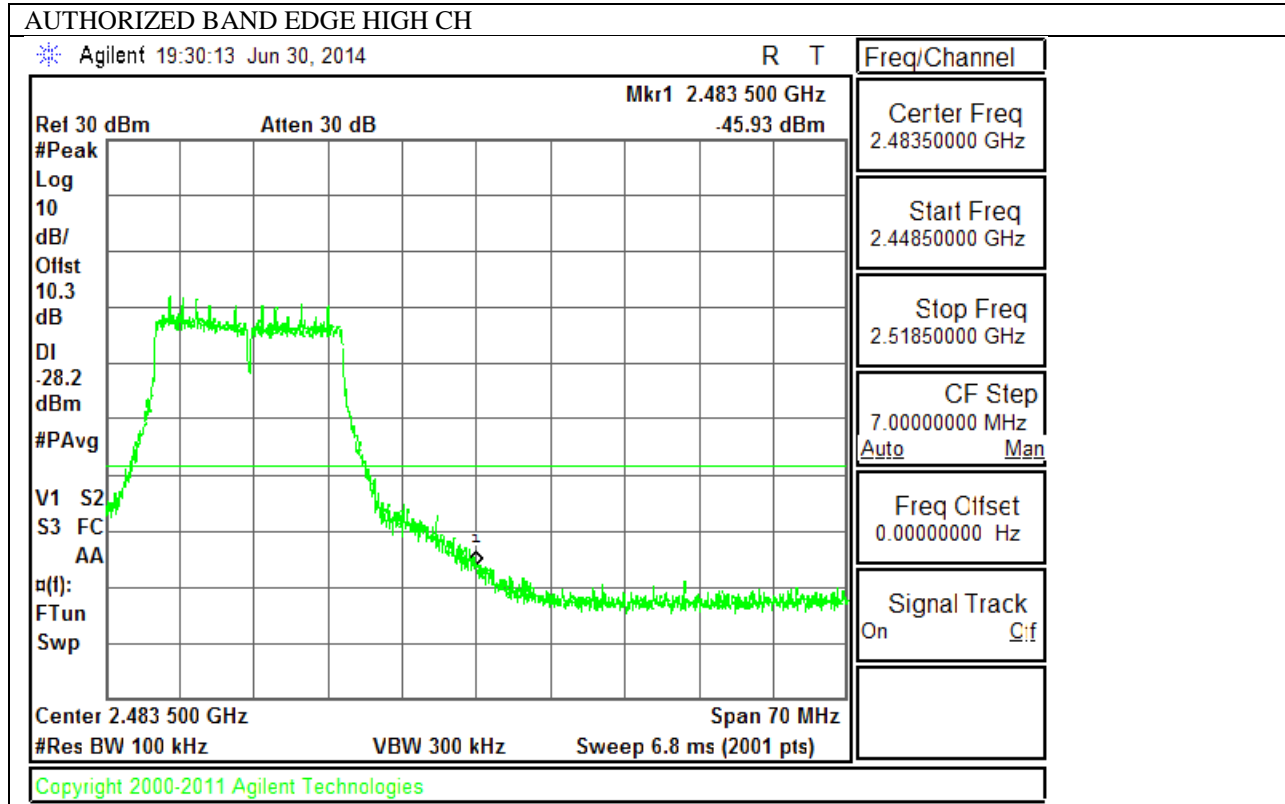
IN-BAND REFERENCE LEVEL



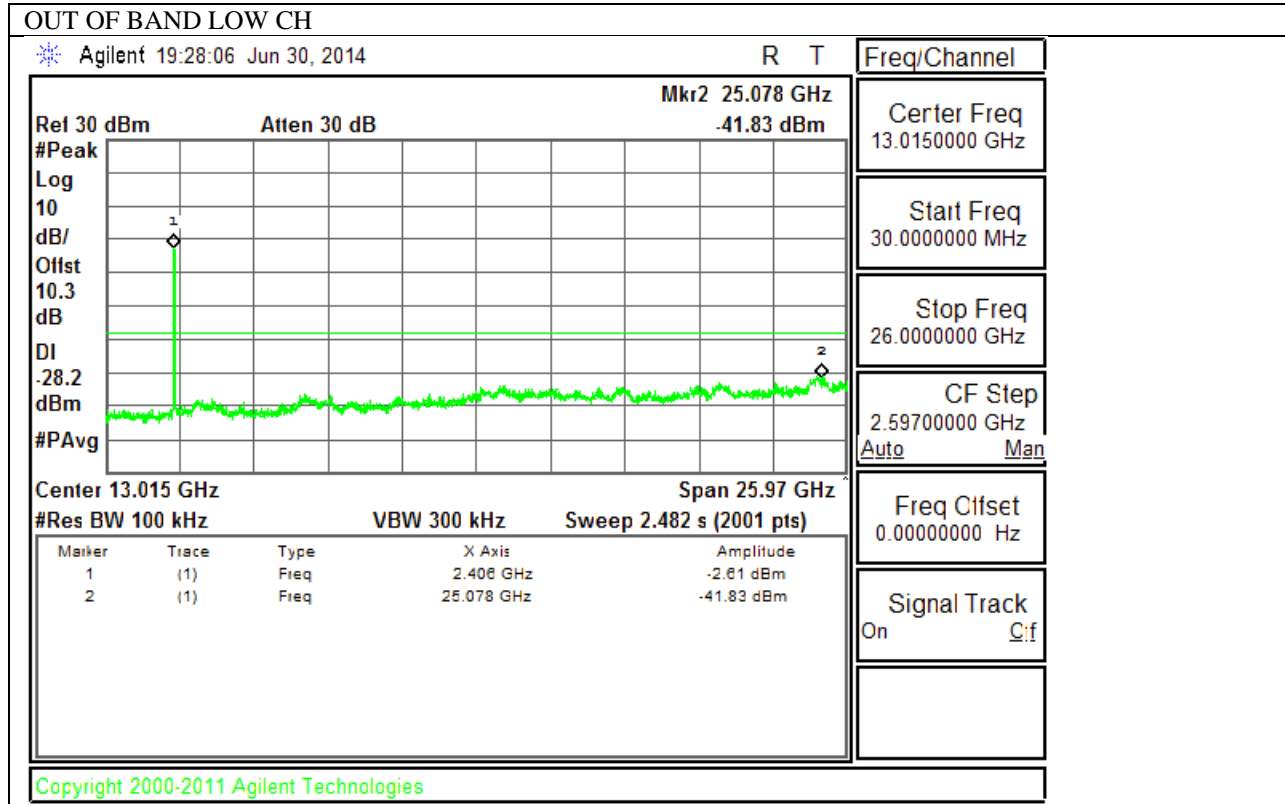
LOW CHANNEL BANDEDGE

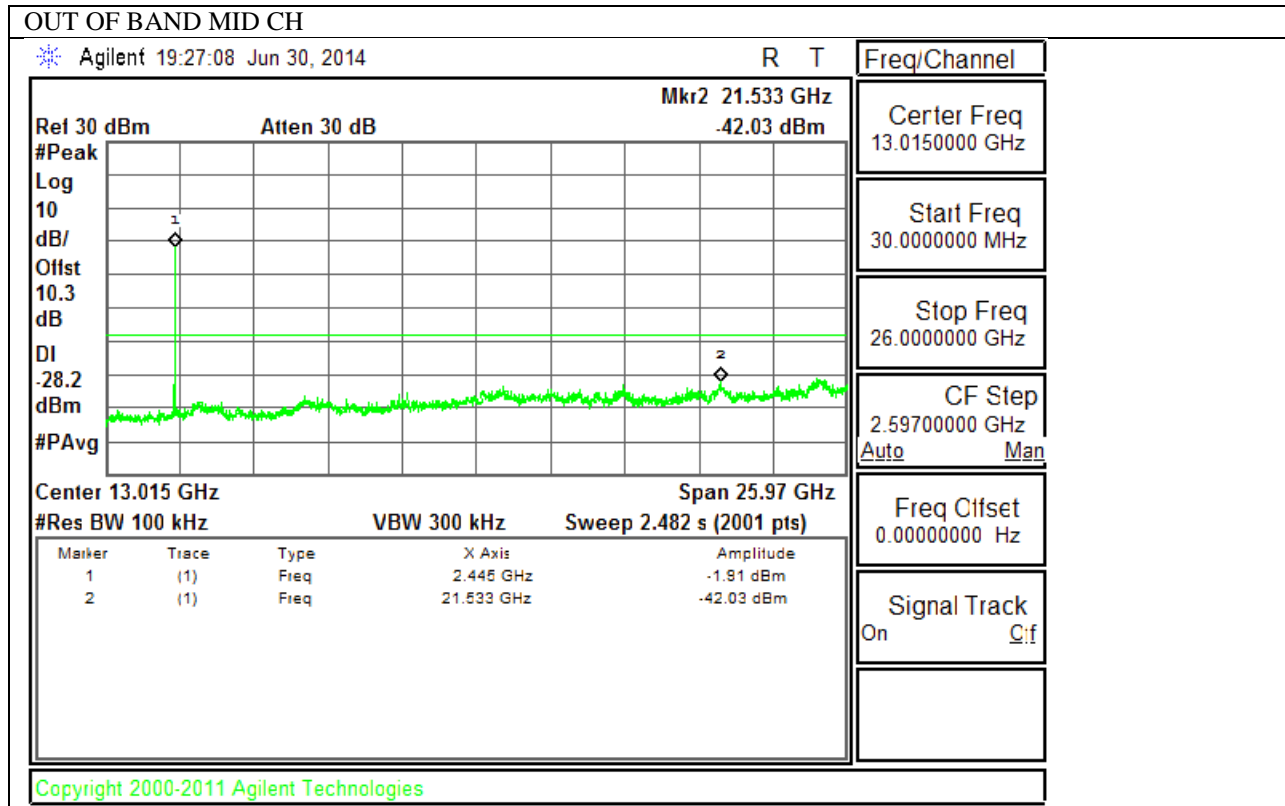


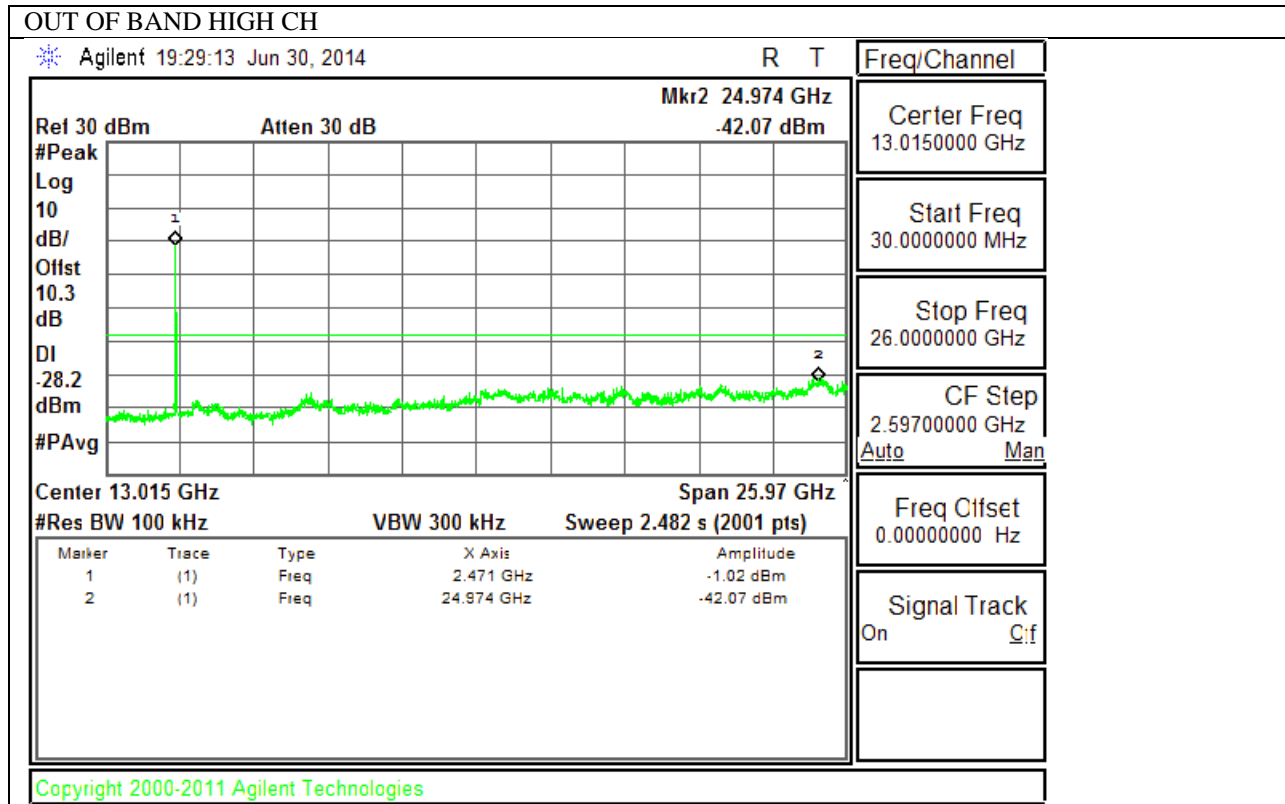
HIGH CHANNEL BANDEDGE



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 ($\mu\text{V}/\text{m}$) at 3 m	Field Strength Limit (dB $\mu\text{V}/\text{m}$) 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 3 MHz for peak measurements and add duty cycle factor for average measurements. Duty cycle factor = $10\log(1/x)$ For this sample B mode = 0dB (duty cycle >98%); G mode = 0.3dB; N mode = 0.32dB.

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.

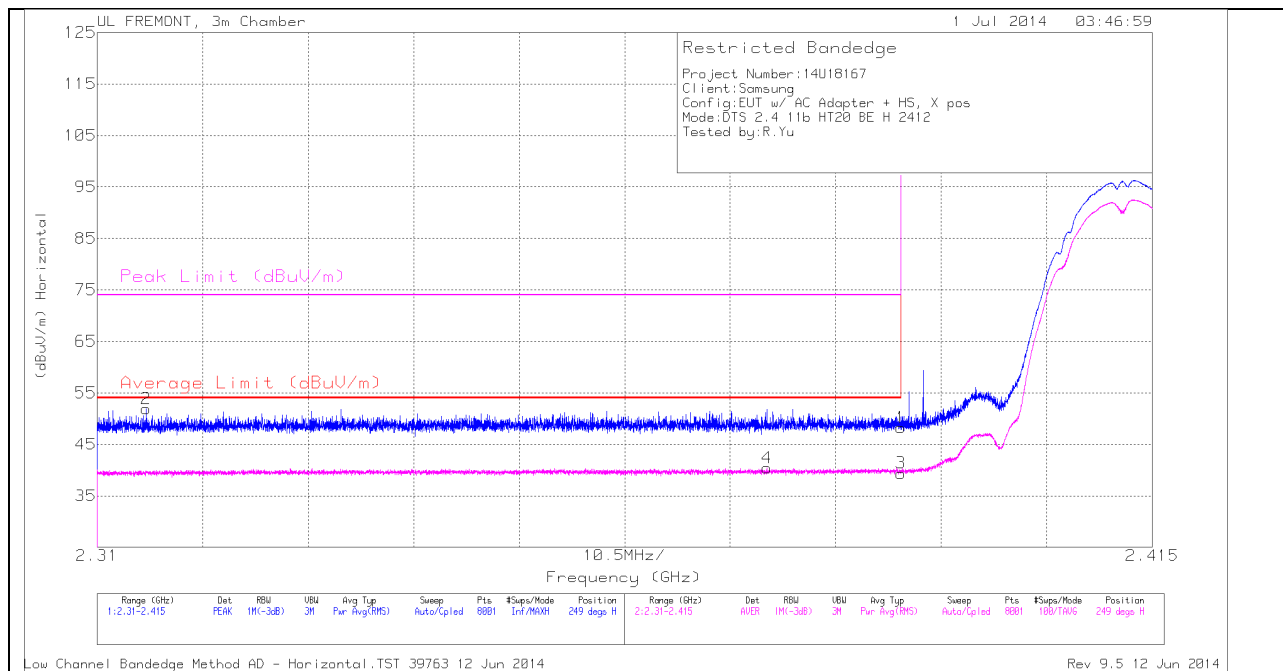
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

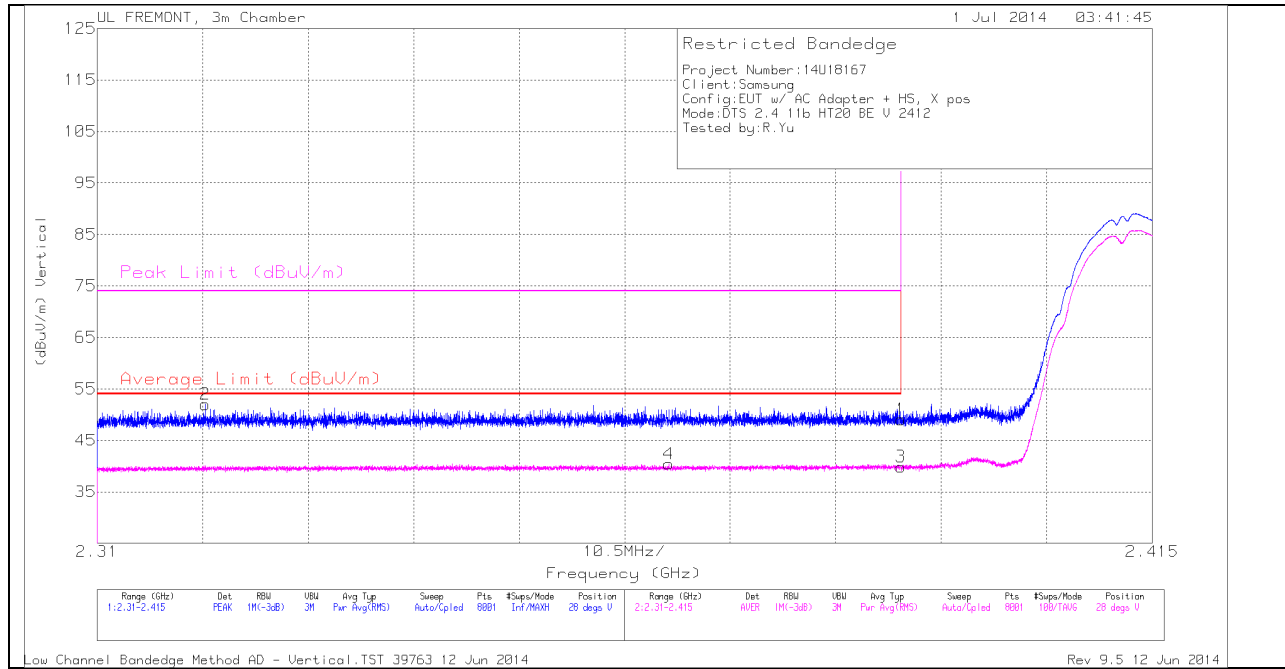
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.315	43.09	PK	31.9	-23.1	51.89	-	-	74	-22.11	249	158	H
4	2.377	31.51	RMS	32	-23.1	40.41	54	-13.59	-	-	249	158	H
1	2.39	39.26	PK	32.1	-23.1	48.26	-	-	74	-25.74	249	158	H
3	2.39	30.39	RMS	32.1	-23.1	39.39	54	-14.61	-	-	249	158	H

VERTICAL PEAK AND AVERAGE PLOT

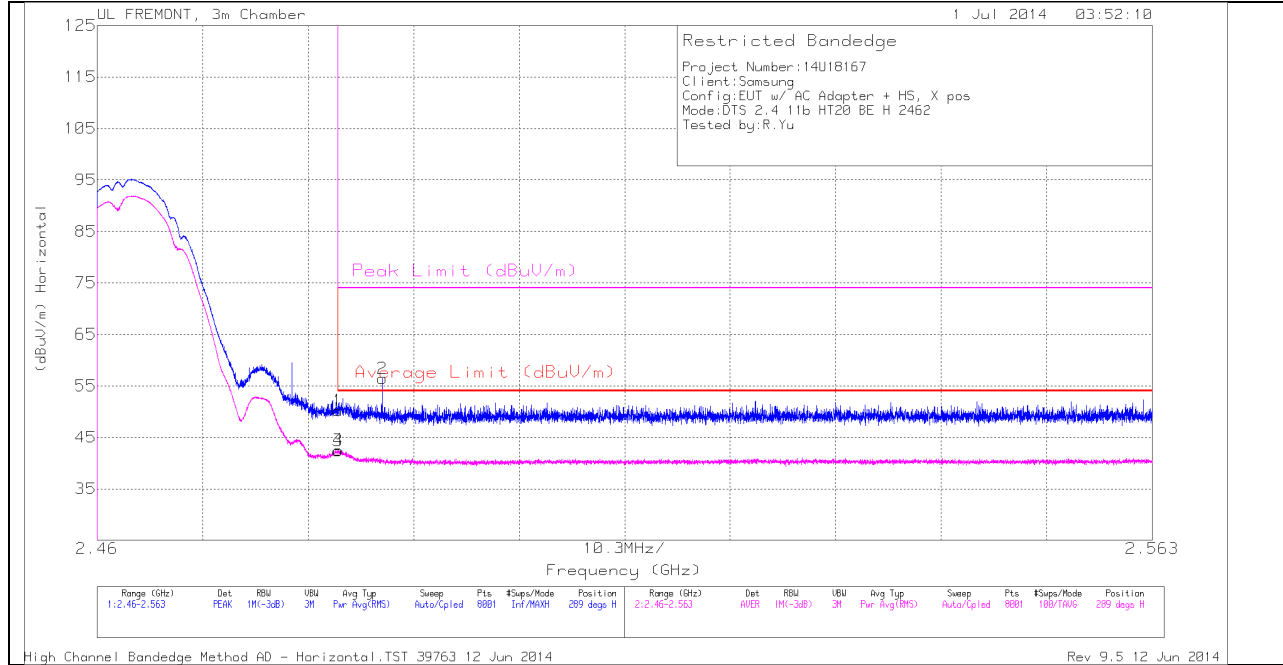


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.321	43.19	PK	31.9	-23.1	51.99	-	-	74	-22.01	28	204	V
4	2.367	31.53	RMS	32	-23.1	40.43	54	-13.57	-	-	28	204	V
1	2.39	40.05	PK	32.1	-23.1	49.05	-	-	74	-24.95	28	204	V
3	2.39	30.87	RMS	32.1	-23.1	39.87	54	-14.13	-	-	28	204	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

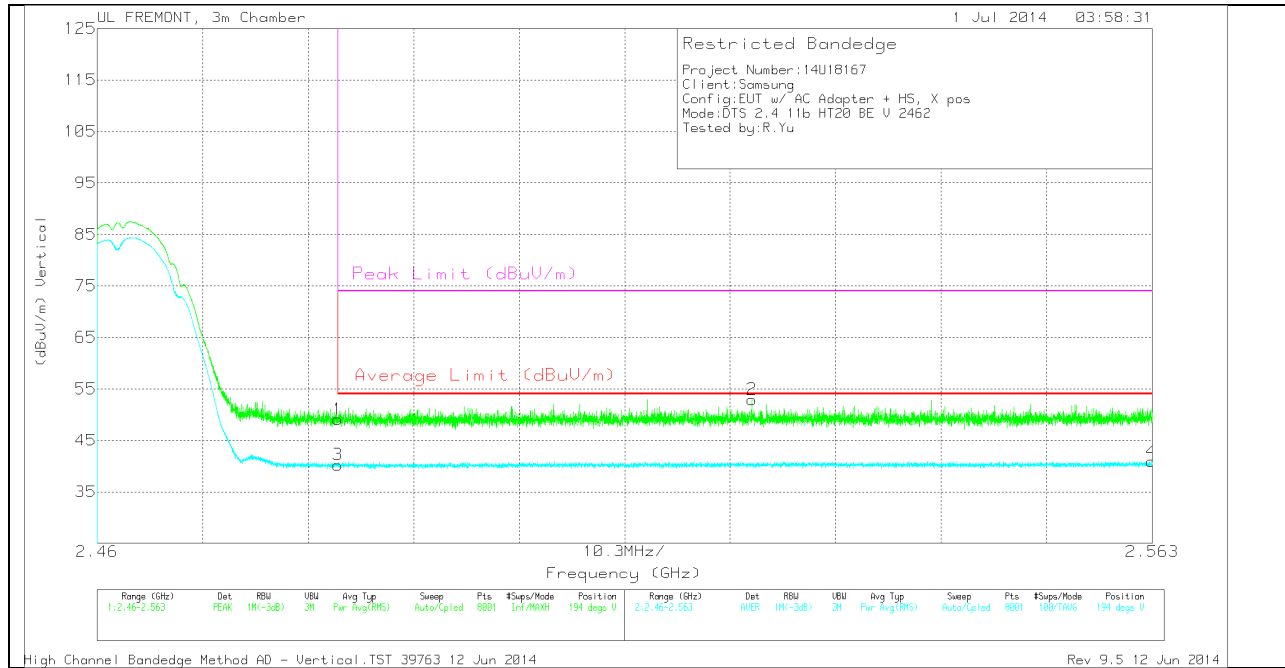
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	40.68	PK	32.3	-22.8	50.18	-	-	74	-23.82	289	311	H
3	2.484	32.92	RMS	32.3	-22.8	42.42	54	-11.58	-	-	289	311	H
4	2.484	33.04	RMS	32.3	-22.8	42.54	54	-11.46	-	-	289	311	H
2	2.488	46.91	PK	32.3	-22.8	56.41	-	-	74	-17.59	289	311	H

VERTICAL PEAK AND AVERAGE PLOT

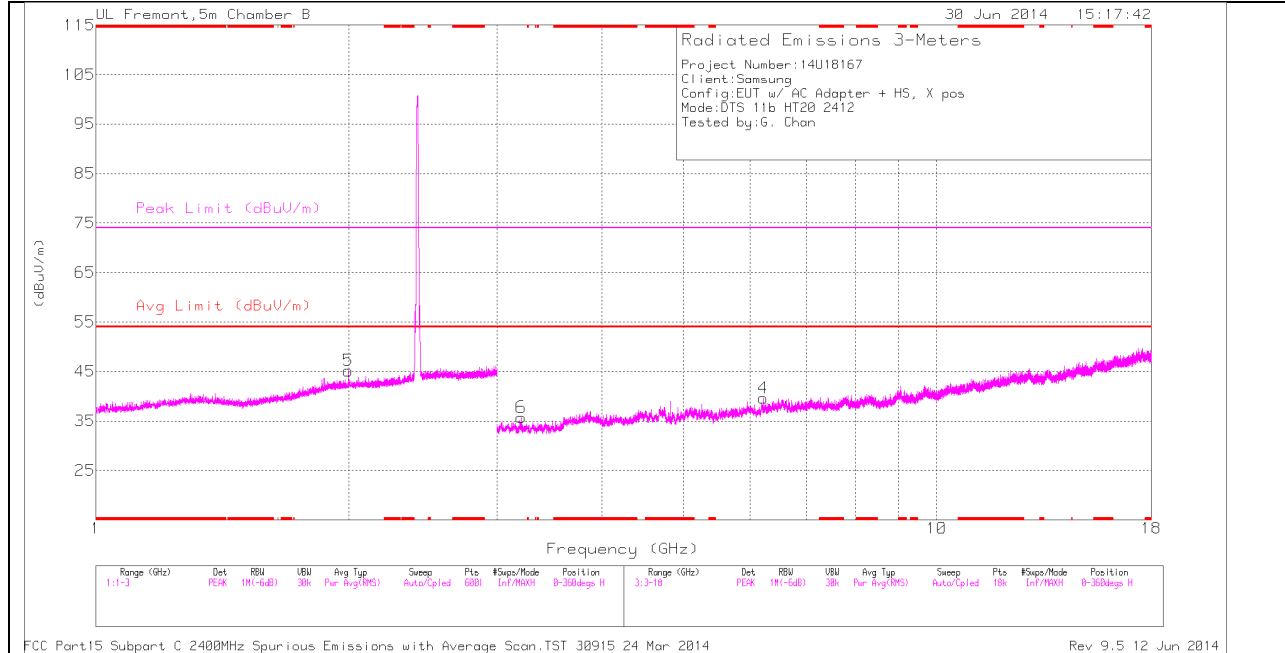


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	39.61	PK	32.3	-22.8	49.11	-	-	74	-24.89	194	119	V
3	2.484	30.74	RMS	32.3	-22.8	40.24	54	-13.76	-	-	194	119	V
2	2.524	43.24	PK	32.4	-22.7	52.94	-	-	74	-21.06	194	119	V
4	2.563	31.25	RMS	32.4	-22.7	40.95	54	-13.05	-	-	194	119	V

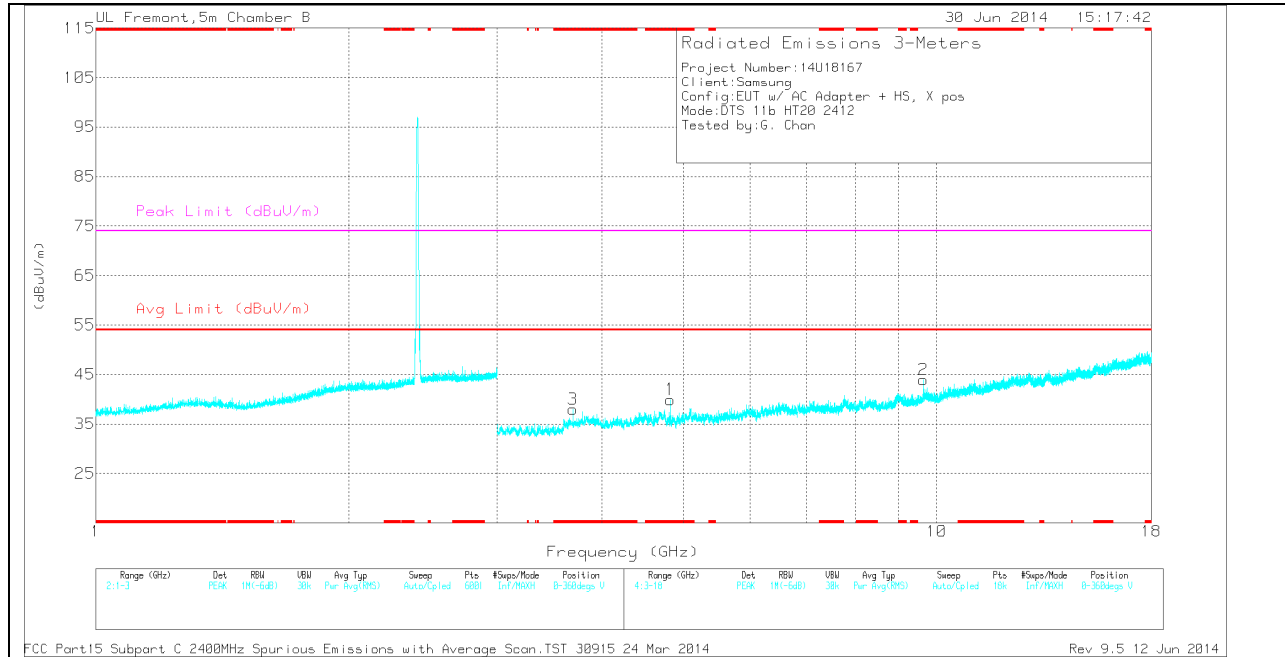
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

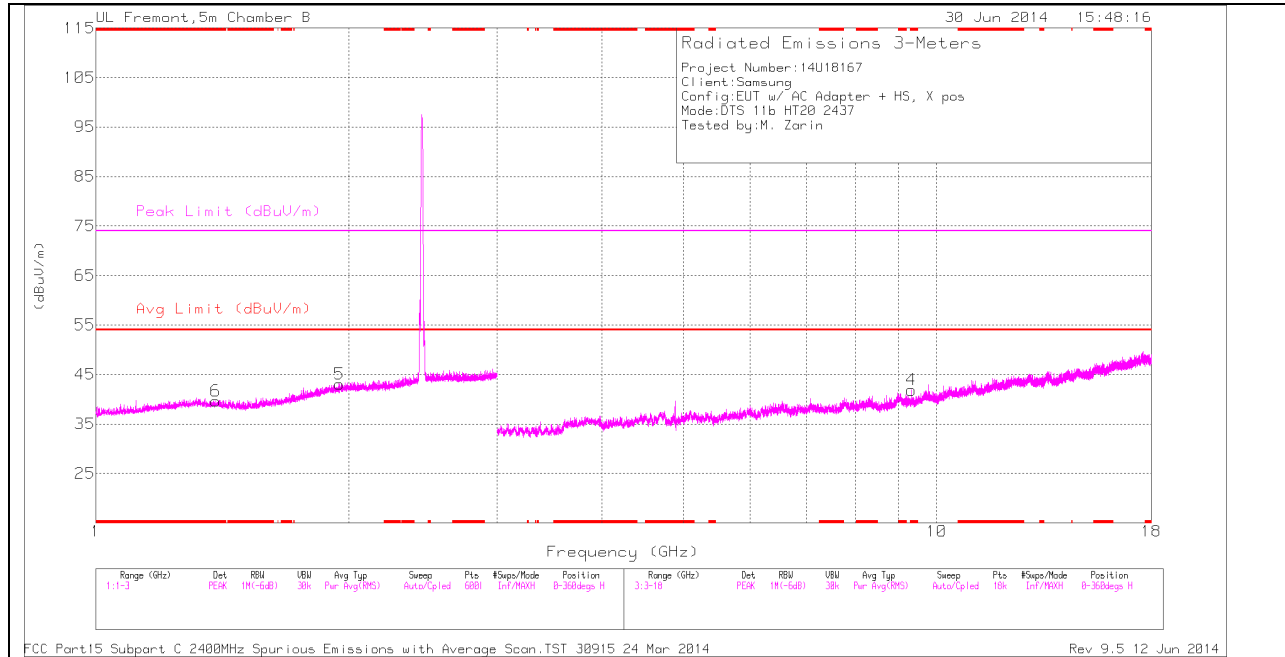
LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.824	35.55	PK	34.2	-29.8	0	39.95	-	-	74	-34.05	0-360	193	V
3	* 3.694	35.93	PK	33.3	-31.3	0	37.93	-	-	74	-36.07	0-360	193	V
5	1.997	37.26	PK	31.3	-23.4	0	45.16	-	-	-	-	0-360	240	H
6	3.205	34.06	PK	32.8	-31.1	0	35.76	-	-	-	-	0-360	99	H
4	6.22	32.72	PK	35.4	-28.5	0	39.62	-	-	-	-	0-360	99	H
2	9.648	30.89	PK	36.8	-23.7	0	43.99	-	-	-	-	0-360	193	V

PK - Peak detector

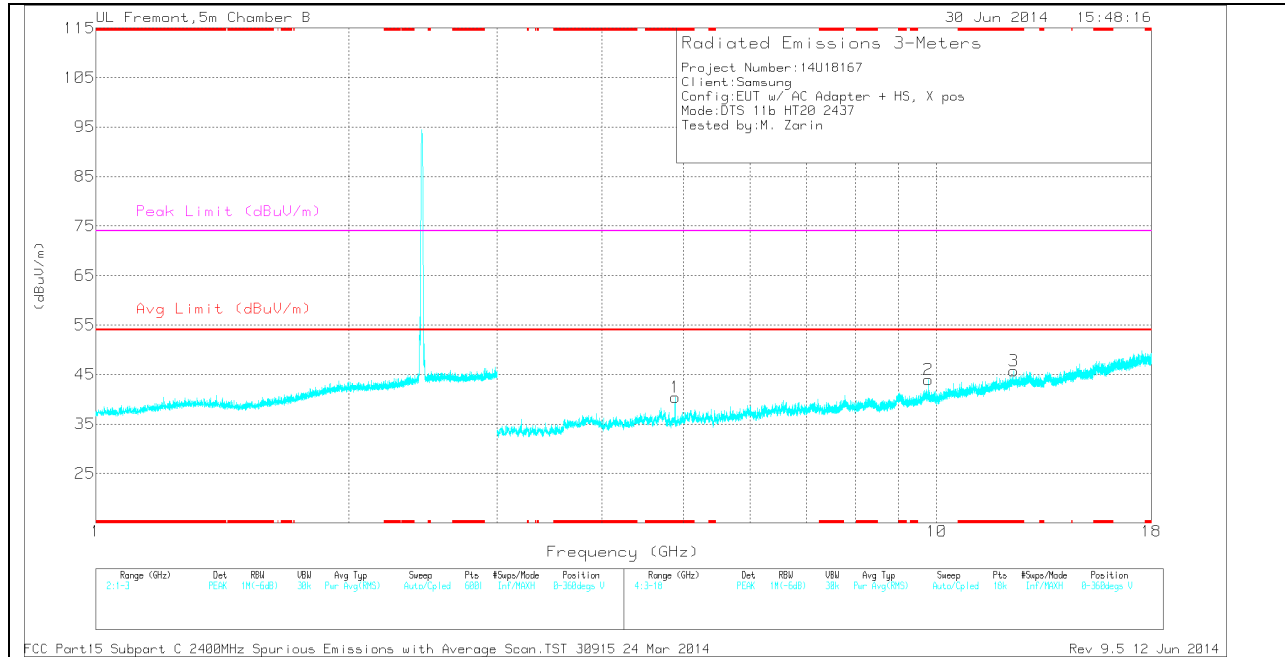
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

MID CHANNEL HORIZONTAL



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

MID CHANNEL VERTICAL



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

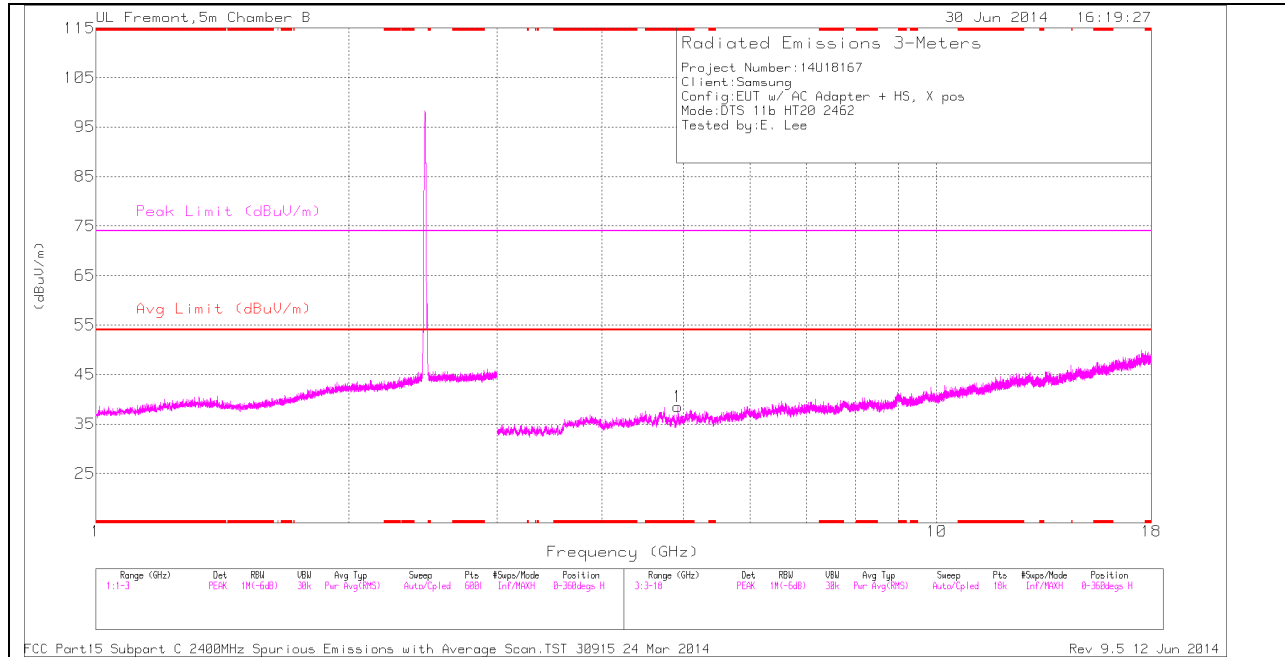
MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 1.388	35.49	PK	28.6	-24.4	0	39.69	-	-	74	-34.31	0-360	206	H
4	* 9.334	29.86	PK	36.4	-24.4	0	41.86	-	-	74	-32.14	0-360	99	H
1	* 4.884	36.81	PK	34.2	-30.6	0	40.41	-	-	74	-33.59	0-360	193	V
3	* 12.356	27.98	PK	39	-21.2	0	45.78	-	-	74	-28.22	0-360	193	V
5	1.949	35.42	PK	31.2	-23.5	0	43.12	-	-	-	-	0-360	99	H
2	9.767	30.77	PK	36.9	-23.7	0	43.97	-	-	-	-	0-360	193	V

PK - Peak detector

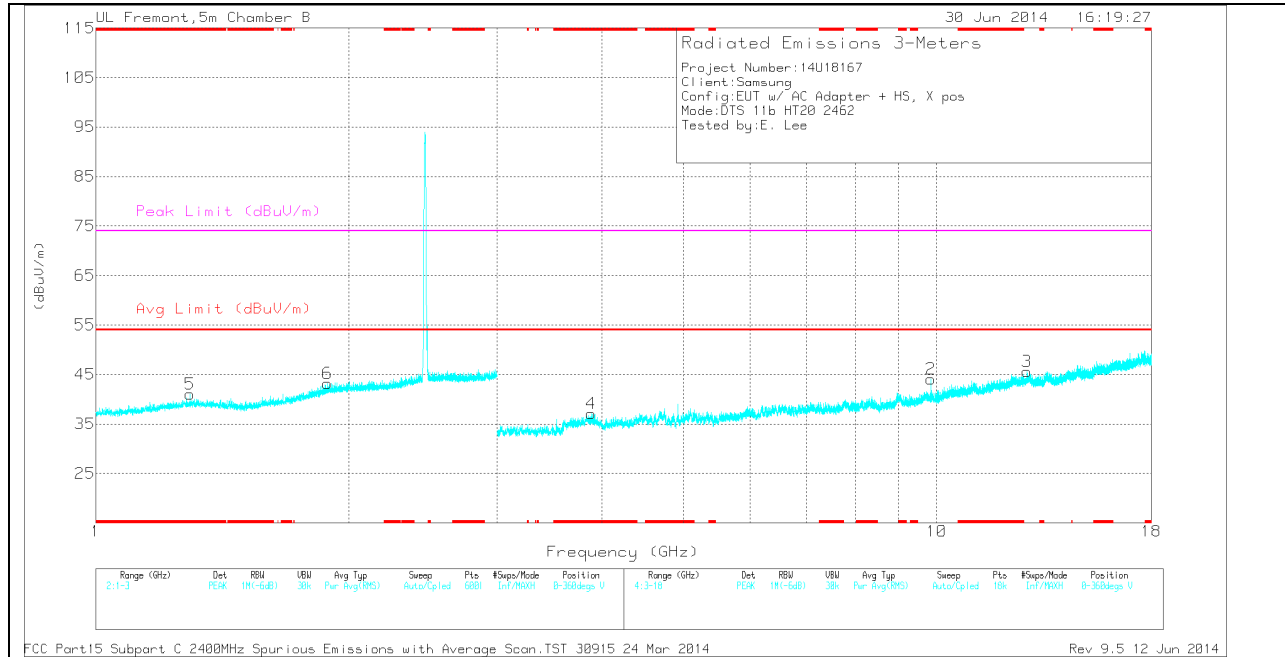
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

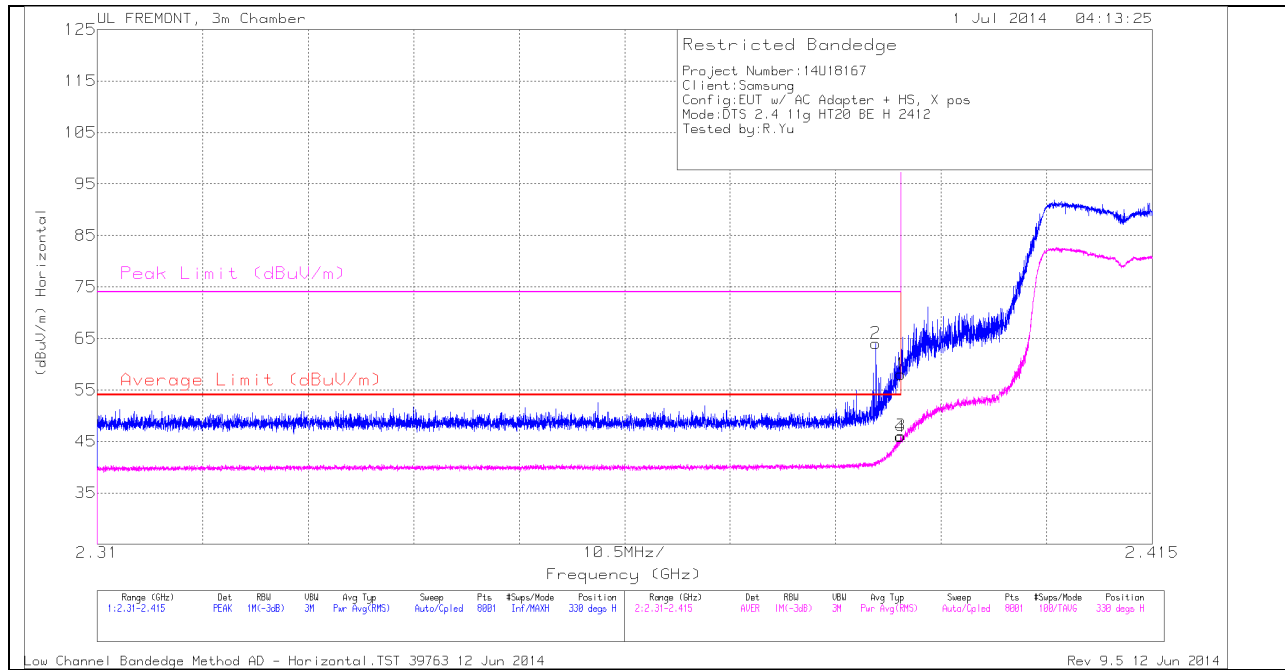
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 1.294	36.76	PK	28.8	-24.5	0	41.06	-	-	74	-32.94	0-360	206	V
1	* 4.924	35.15	PK	34.2	-30.8	0	38.55	-	-	74	-35.45	0-360	99	H
4	* 3.885	33.48	PK	33.8	-30.2	0	37.08	-	-	74	-36.92	0-360	99	V
6	1.887	35.84	PK	30.9	-23.5	0	43.24	-	-	-	-	0-360	206	V
2	9.848	30.97	PK	37	-23.9	0	44.07	-	-	-	-	0-360	206	V
3	12.804	27.6	PK	39.2	-21.2	0	45.6	-	-	-	-	0-360	99	V

PK - Peak detector

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

RESTRICTED BANDEDGE (LOW CHANNEL)

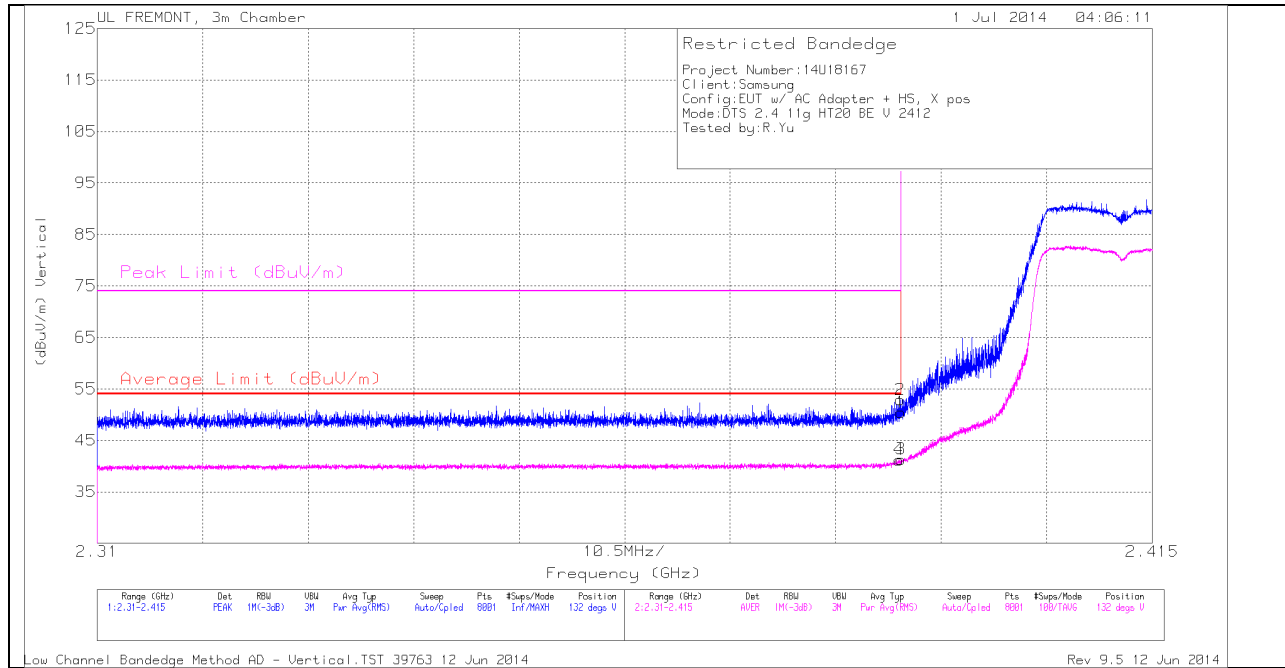
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.388	55.04	PK	32.1	-23.1	0	64.04	-	-	74	-9.96	330	174	H
1	2.39	49.04	PK	32.1	-23.1	0	58.04	-	-	74	-15.96	330	174	H
3	2.39	36.81	RMS	32.1	-23.1	.3	46.11	54	-7.89	-	-	330	174	H
4	2.39	36.6	RMS	32.1	-23.1	.3	45.9	54	-8.1	-	-	330	174	H

VERTICAL PEAK AND AVERAGE PLOT

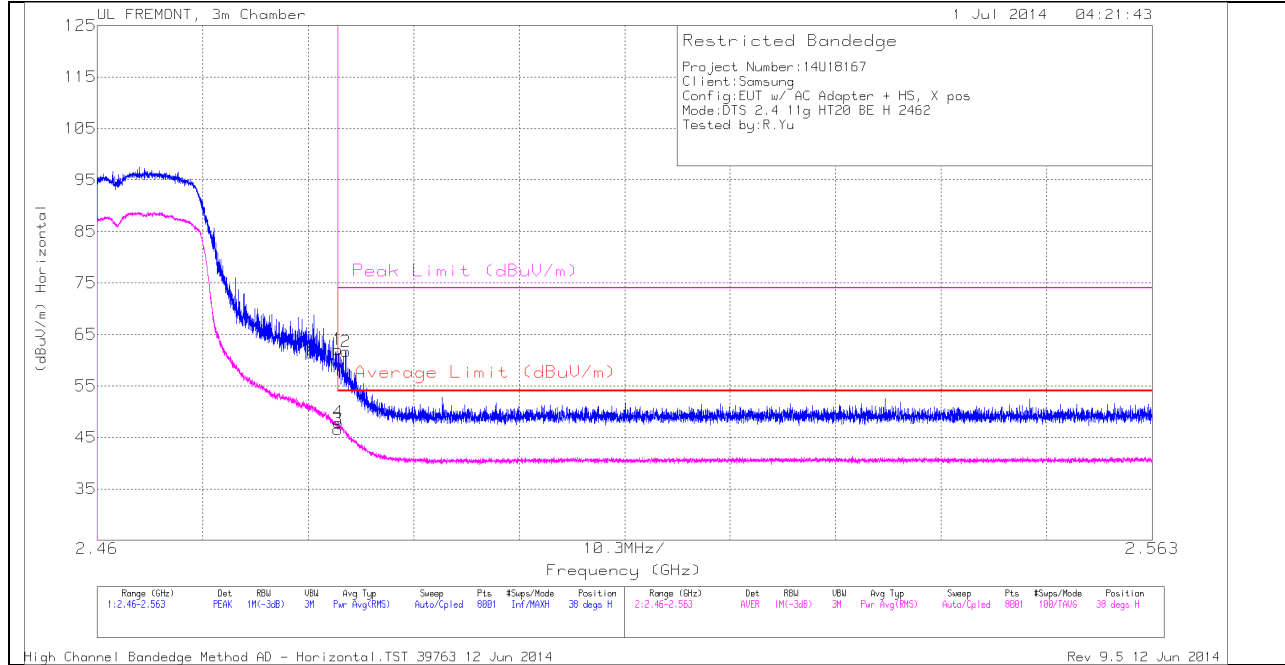


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	41.42	PK	32.1	-23.1	0	50.42	-	-	74	-23.58	132	179	V
2	2.39	43.87	PK	32.1	-23.1	0	52.87	-	-	74	-21.13	132	179	V
3	2.39	32.05	RMS	32.1	-23.1	.3	41.35	54	-12.65	-	-	132	179	V
4	2.39	31.92	RMS	32.1	-23.1	.3	41.22	54	-12.78	-	-	132	179	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

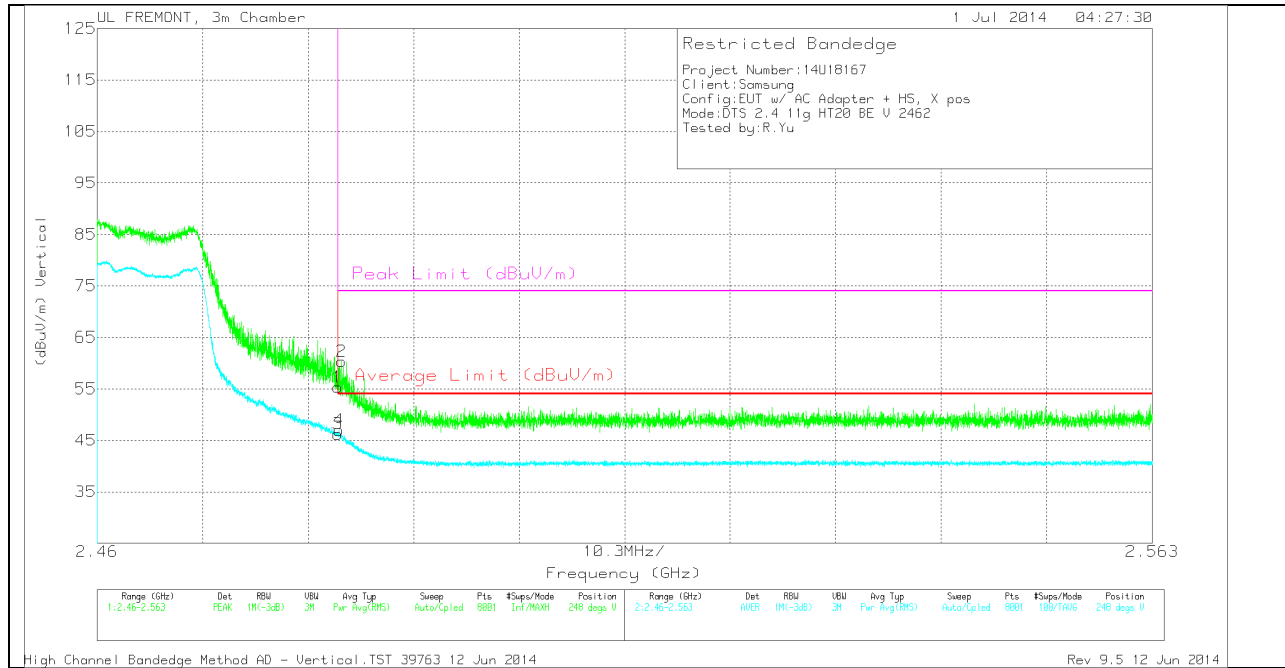
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	52.57	PK	32.3	-22.8	0	62.07	-	-	74	-11.93	38	338	H
2	2.484	52.2	PK	32.3	-22.8	0	61.7	-	-	74	-12.3	38	338	H
3	2.484	36.77	RMS	32.3	-22.8	.3	46.57	54	-7.43	-	-	38	338	H
4	2.484	38.11	RMS	32.3	-22.8	.3	47.91	54	-6.09	-	-	38	338	H

VERTICAL PEAK AND AVERAGE PLOT

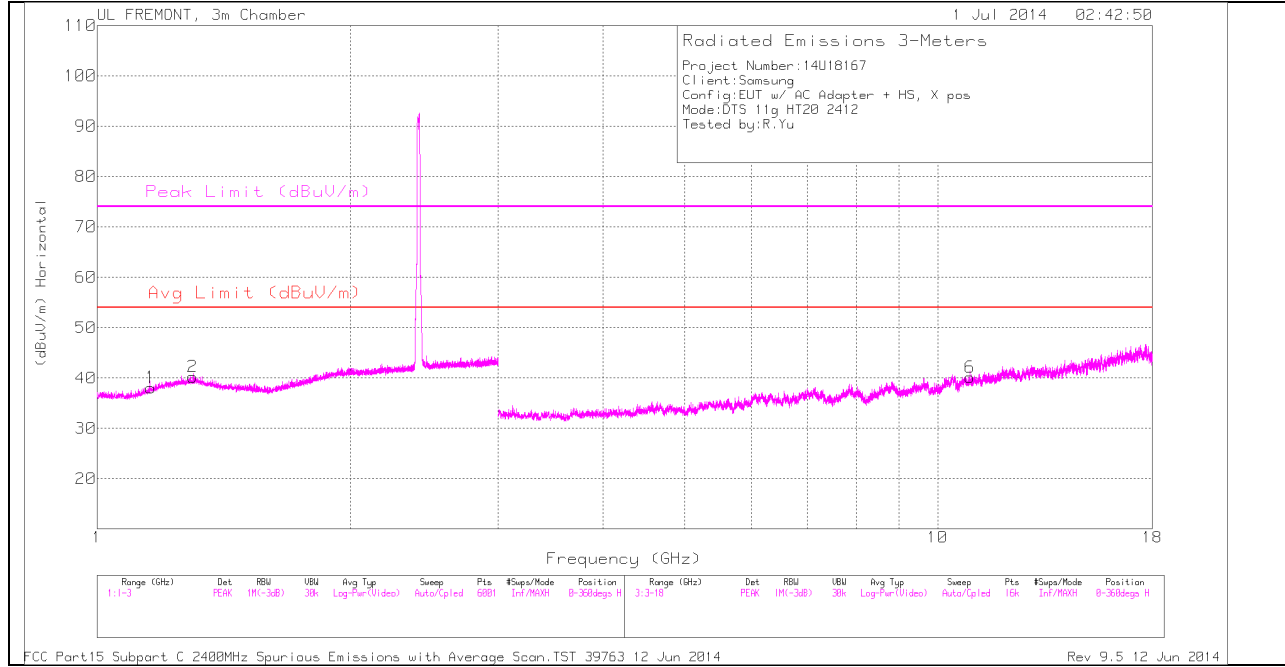


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	45.84	PK	32.3	-22.8	0	55.34	-	-	74	-18.66	248	169	V
2	2.484	50.81	PK	32.3	-22.8	0	60.31	-	-	74	-13.69	248	169	V
3	2.484	36.45	RMS	32.3	-22.8	.3	46.25	54	-7.75	-	-	248	169	V
4	2.484	37.19	RMS	32.3	-22.8	.3	46.99	54	-7.01	-	-	248	169	V

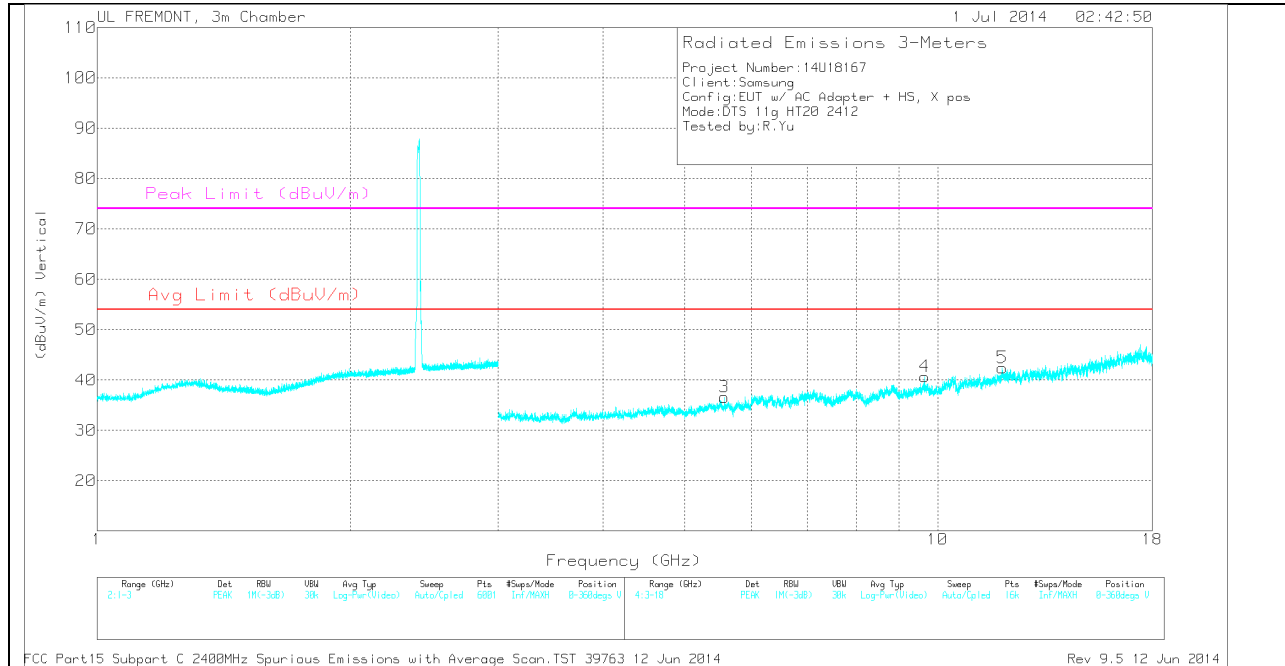
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

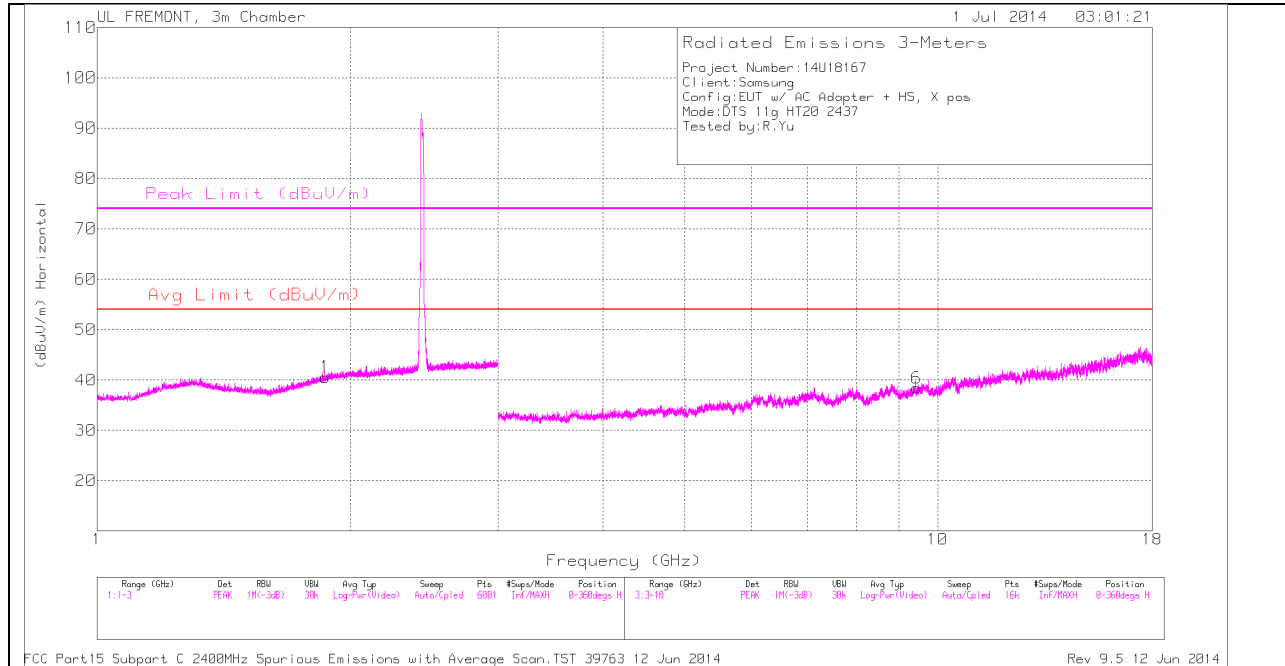
LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.159	33.46	PK	28.4	-23.8	0	38.06	-	-	74	-35.94	0-360	100	H
2	1.299	33.84	PK	30.2	-23.8	0	40.24	-	-	74	-33.76	0-360	100	H
3	5.577	30.9	PK	34.8	-29.1	0	36.6	-	-	-	-	0-360	100	V
4	9.648	29.5	PK	36.8	-25.6	0	40.7	-	-	-	-	0-360	100	V
6	10.929	27.54	PK	37.9	-25.3	0	40.14	-	-	74	-33.86	0-360	100	H
5	11.937	29.54	PK	39	-26.1	0	42.44	-	-	74	-31.56	0-360	100	V

PK - Peak detector

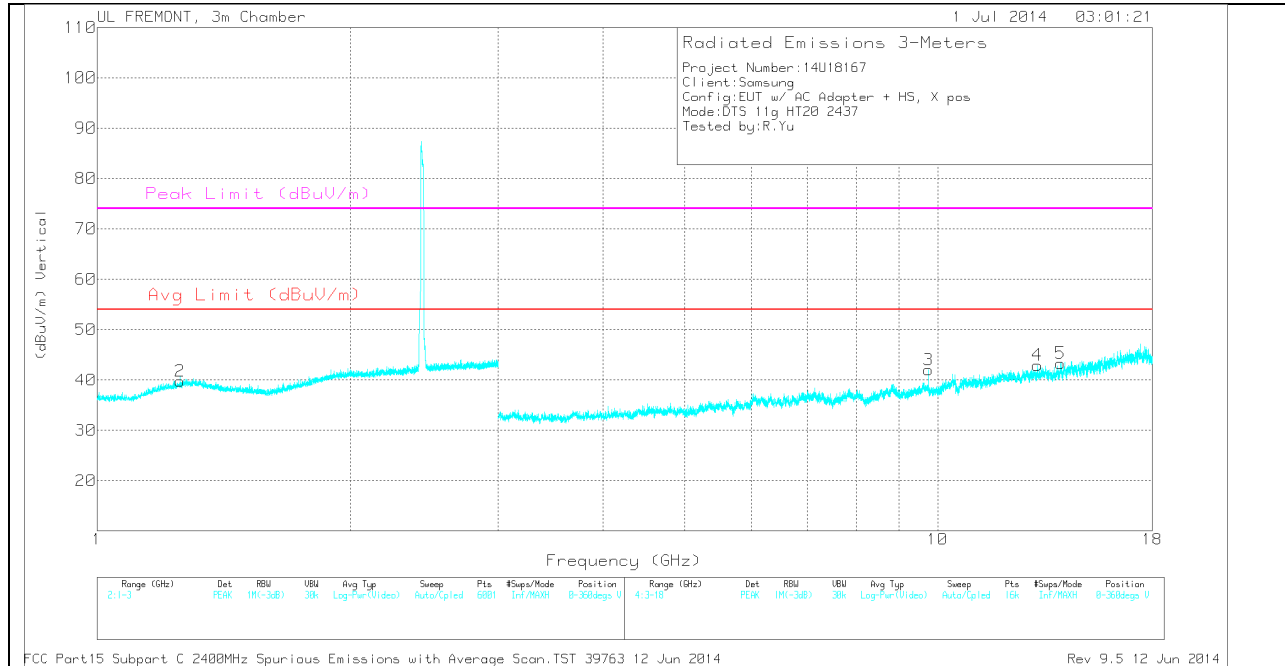
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MID CHANNEL HORIZONTAL



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

MID CHANNEL VERTICAL



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

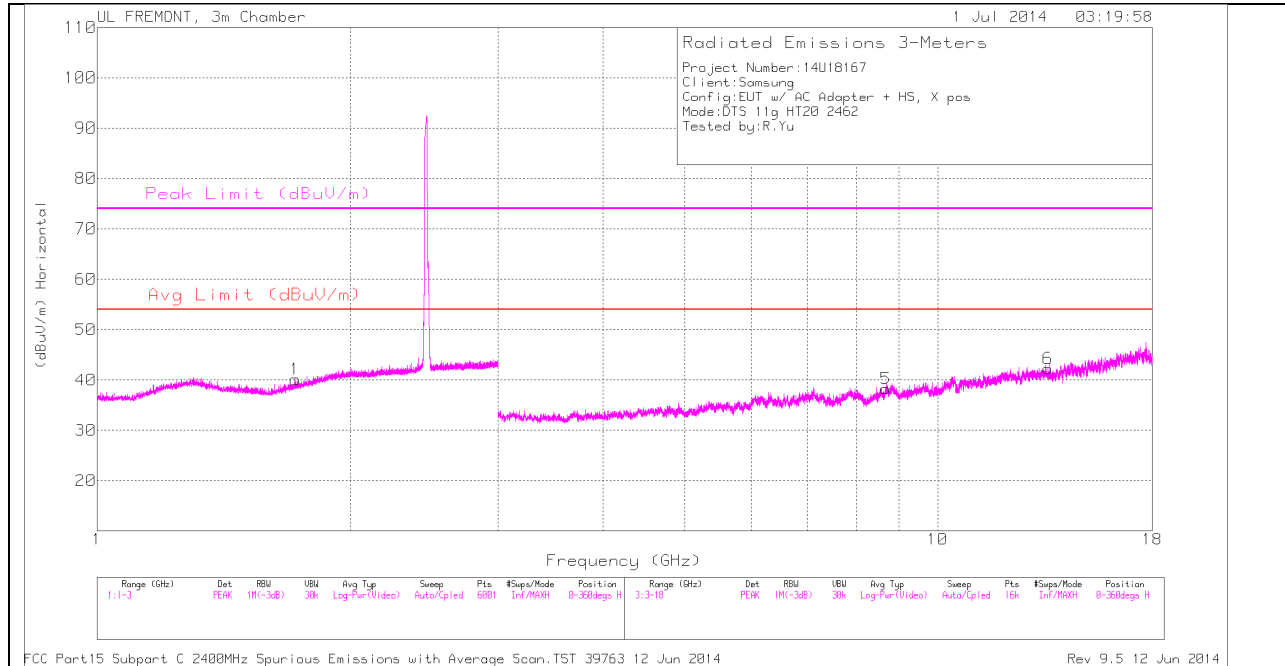
MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.256	33.78	PK	29.8	-23.8	0	39.78	-	-	74	-34.22	0-360	200	V
1	1.869	32.97	PK	30.9	-23.3	0	40.57	-	-	-	-	0-360	200	H
6	9.443	27.69	PK	36.5	-25.8	0	38.39	-	-	74	-35.61	0-360	100	H
3	9.748	30.83	PK	36.9	-25.7	0	42.03	-	-	-	-	0-360	100	V
4	13.143	30.75	PK	39.1	-26.9	0	42.95	-	-	-	-	0-360	100	V
5	14.006	31.99	PK	38.8	-27.5	0	43.29	-	-	-	-	0-360	100	V

PK - Peak detector

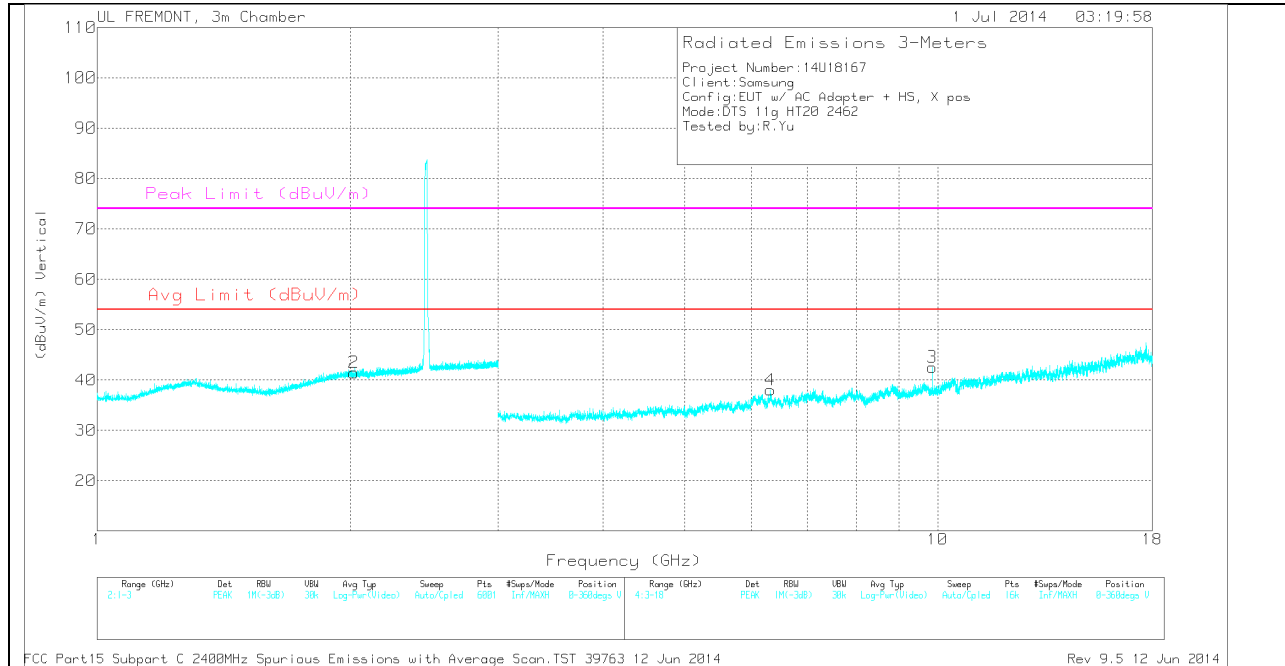
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

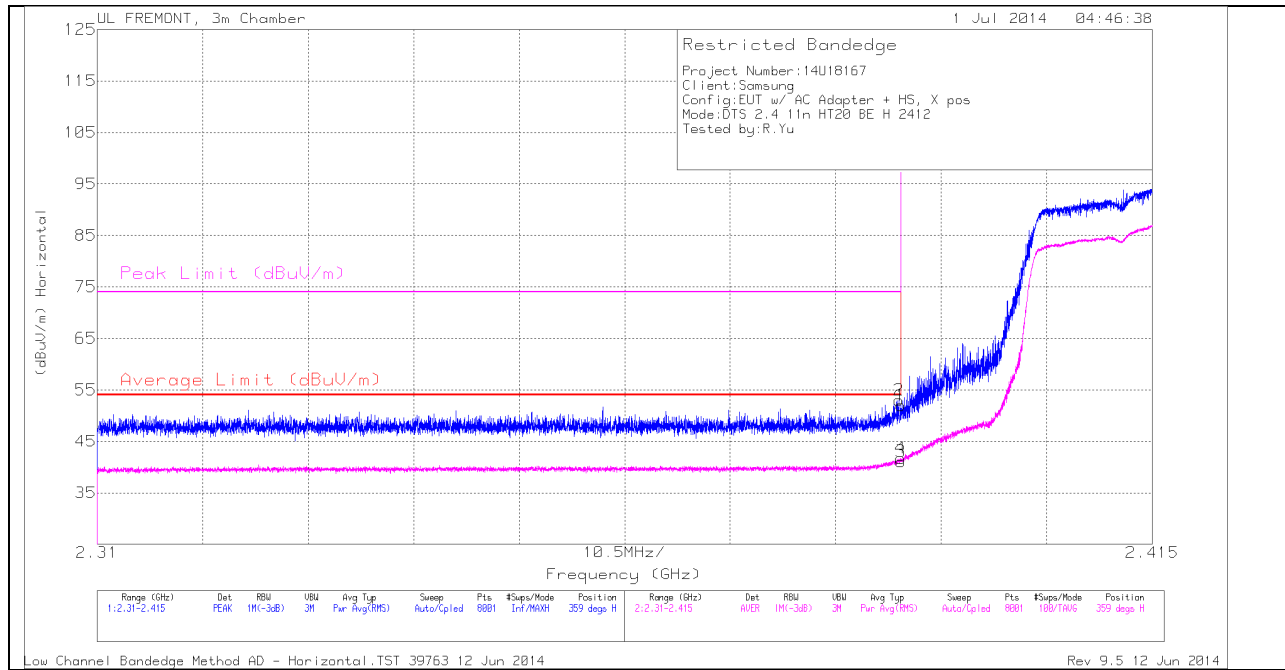
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.722	34.2	PK	29.3	-23.4	0	40.1	-	-	74	-33.9	0-360	200	H
2	2.02	33.07	PK	31.6	-23.2	0	41.47	-	-	-	-	0-360	100	V
4	6.324	31.82	PK	35.4	-29.2	0	38.02	-	-	-	-	0-360	100	V
5	8.674	29.58	PK	35.8	-27.1	0	38.28	-	-	-	-	0-360	100	H
3	9.848	31.55	PK	36.9	-25.9	0	42.55	-	-	-	-	0-360	100	V
6	13.521	30.55	PK	39	-27.3	0	42.25	-	-	-	-	0-360	200	H

PK - Peak detector

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

RESTRICTED BANDEDGE (LOW CHANNEL)

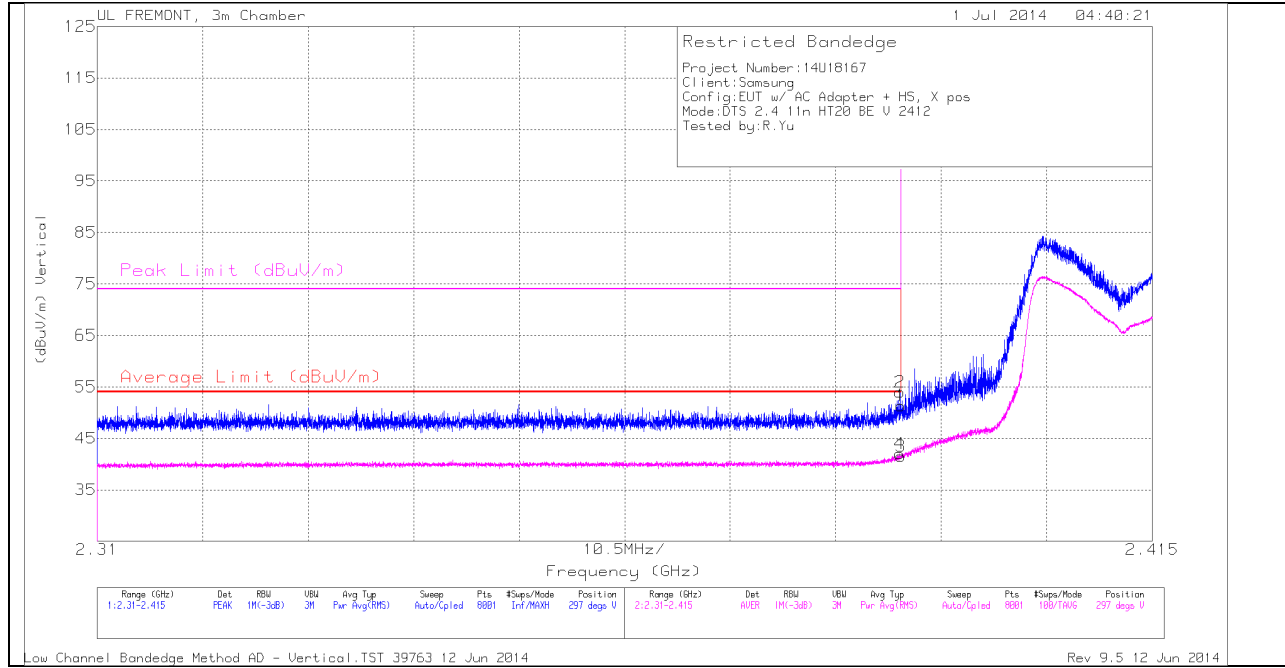
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	43	PK	32.1	-23.1	0	52	-	-	74	-22	359	397	H
2	2.39	44	PK	32.1	-23.1	0	53	-	-	74	-21	359	397	H
3	2.39	32.08	RMS	32.1	-23.1	0.3	41.08	54	-12.92	-	-	359	397	H
4	2.39	32.72	RMS	32.1	-23.1	0.3	41.72	54	-12.28	-	-	359	397	H

VERTICAL PEAK AND AVERAGE PLOT

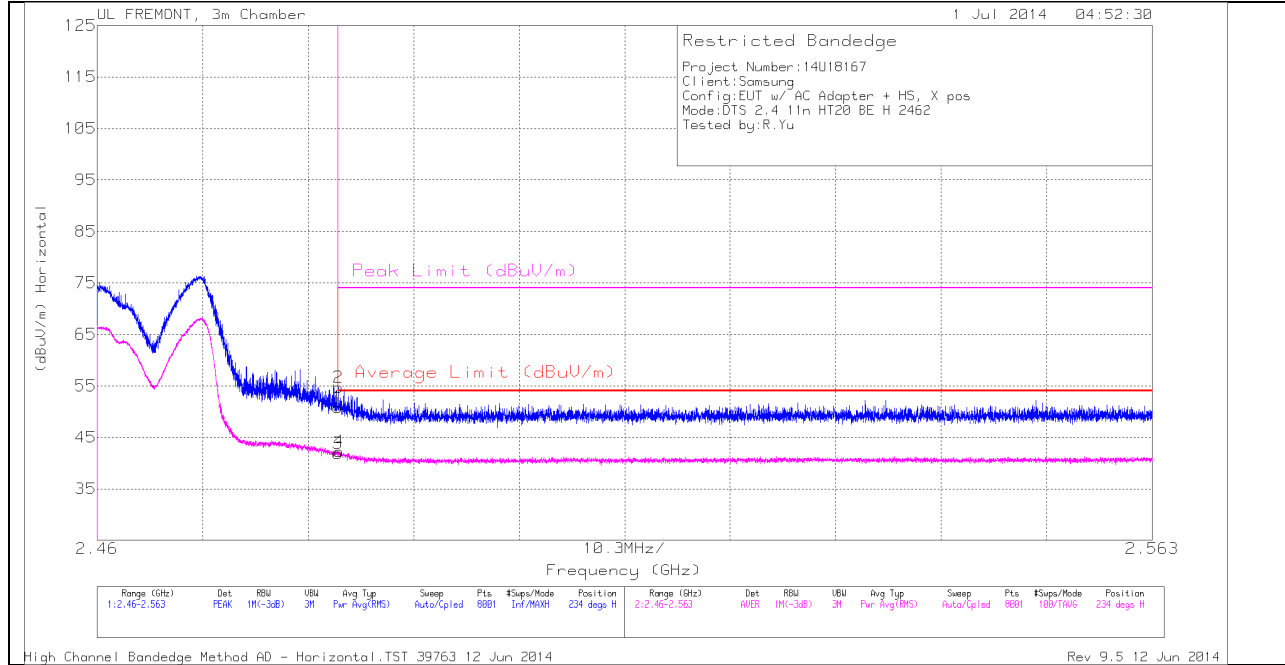


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	42.32	PK	32.1	-23.1	0	51.32	-	-	74	-22.68	297	357	V
2	2.39	44.98	PK	32.1	-23.1	0	53.98	-	-	74	-20.02	297	357	V
3	2.39	32.23	RMS	32.1	-23.1	.3	41.53	54	-12.47	-	-	297	357	V
4	2.39	32.7	RMS	32.1	-23.1	.3	42	54	-12	-	-	297	357	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

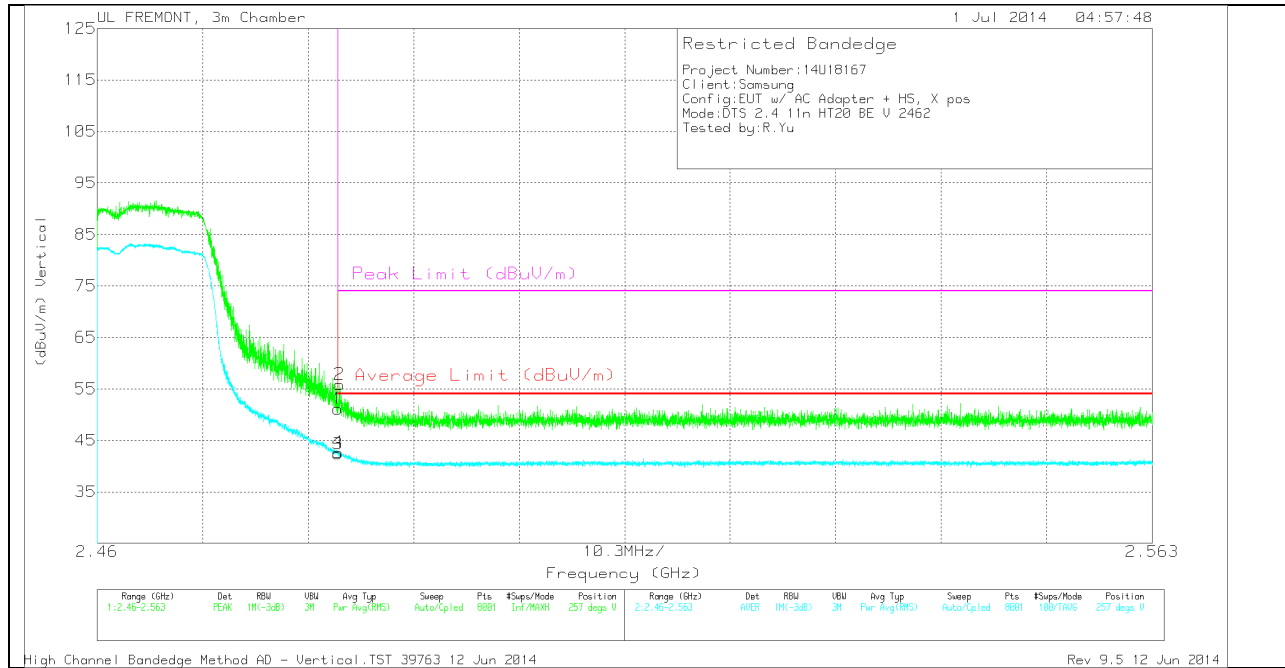
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	41.37	PK	32.3	-22.8	0	50.87	-	-	74	-23.13	234	353	H
2	2.484	45.19	PK	32.3	-22.8	0	54.69	-	-	74	-19.31	234	353	H
3	2.484	32.09	RMS	32.3	-22.8	.3	41.89	54	-12.11	-	-	234	353	H
4	2.484	32.44	RMS	32.3	-22.8	.3	42.24	54	-11.76	-	-	234	353	H

VERTICAL PEAK AND AVERAGE PLOT

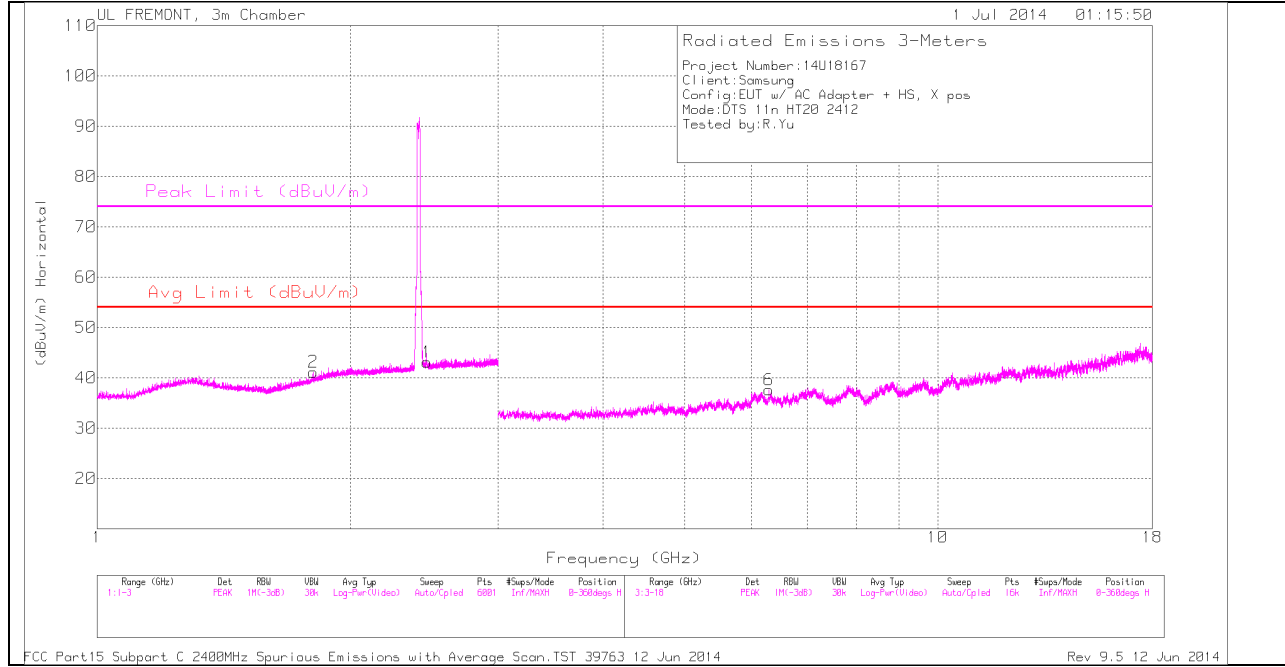


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	41.63	PK	32.3	-22.8	0	51.13	-	-	74	-22.87	257	111	V
2	2.484	46.36	PK	32.3	-22.8	0	55.86	-	-	74	-18.14	257	111	V
3	2.484	32.56	RMS	32.3	-22.8	.3	42.36	54	-11.64	-	-	257	111	V
4	2.484	32.88	RMS	32.3	-22.8	.3	42.68	54	-11.32	-	-	257	111	V

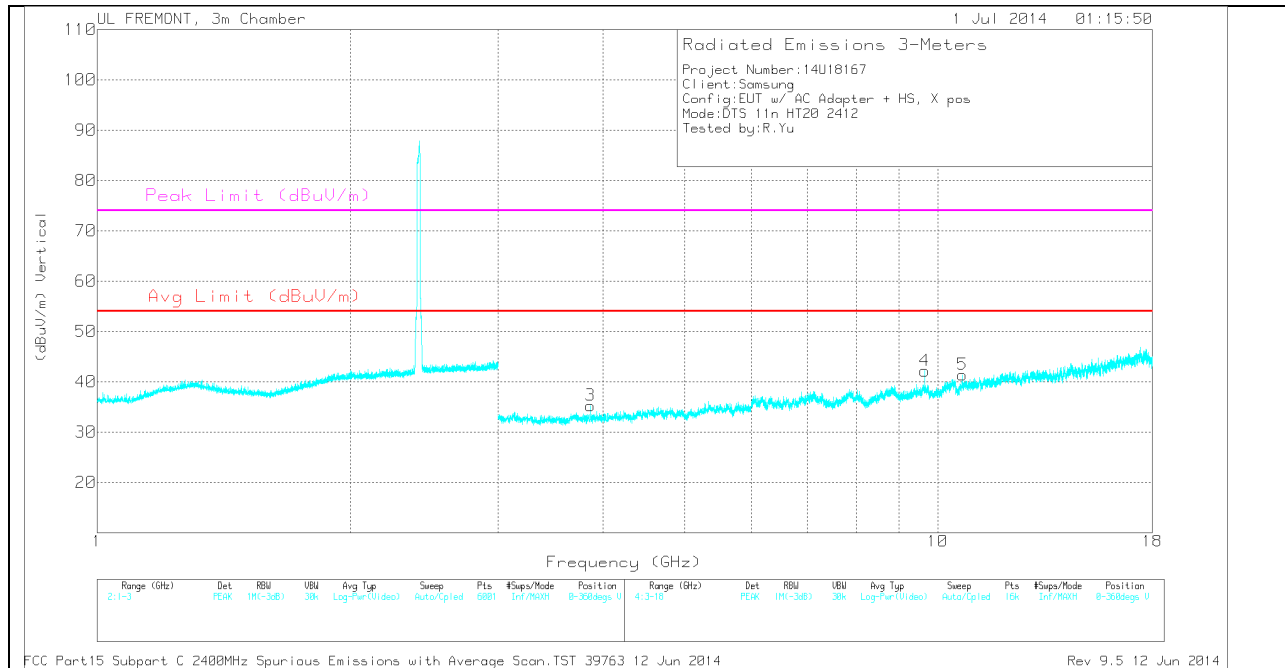
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

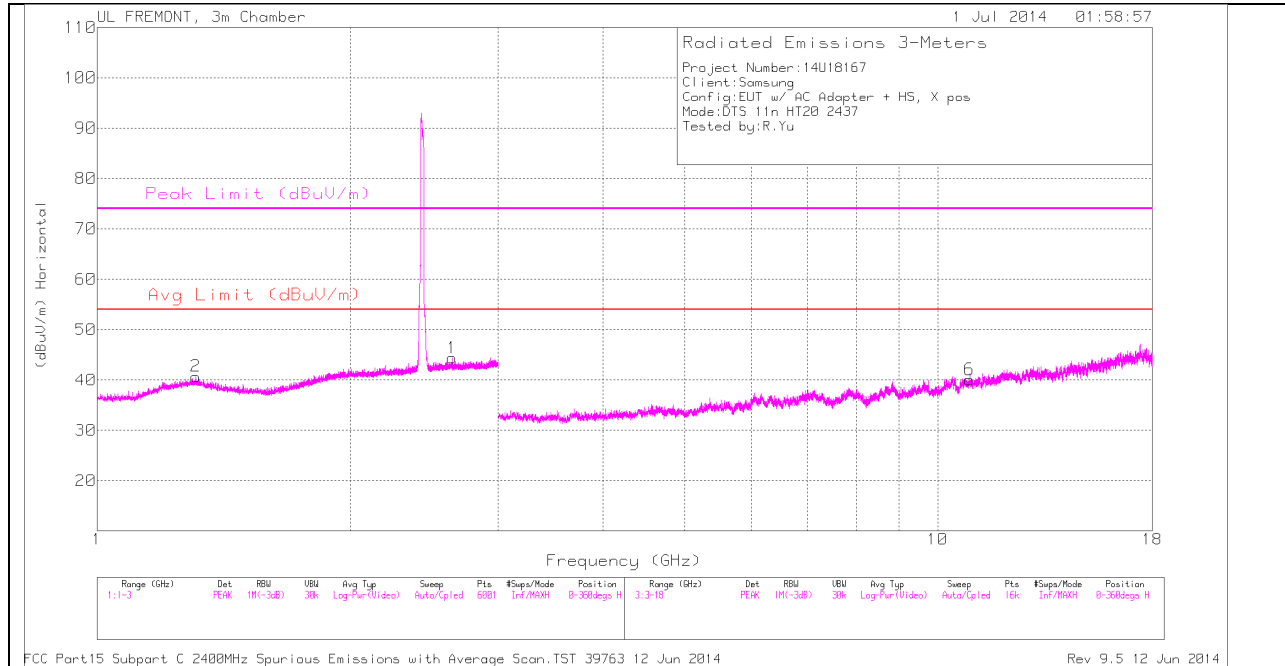
LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.809	34.23	PK	30.2	-23.3	0	41.13	-	-	-	-	0-360	200	H
1	2.47	33.56	PK	32.3	-22.8	0	43.06	-	-	-	-	0-360	200	H
3	3.862	33.28	PK	33.2	-31.2	0	35.28	-	-	74	-38.72	0-360	100	V
6	6.294	32.17	PK	35.4	-30	0	37.57	-	-	-	-	0-360	100	H
4	9.647	30.97	PK	36.8	-25.6	0	42.17	-	-	-	-	0-360	100	V
5	10.7	28.3	PK	37.9	-24.8	0	41.4	-	-	74	-32.6	0-360	200	V

PK - Peak detector

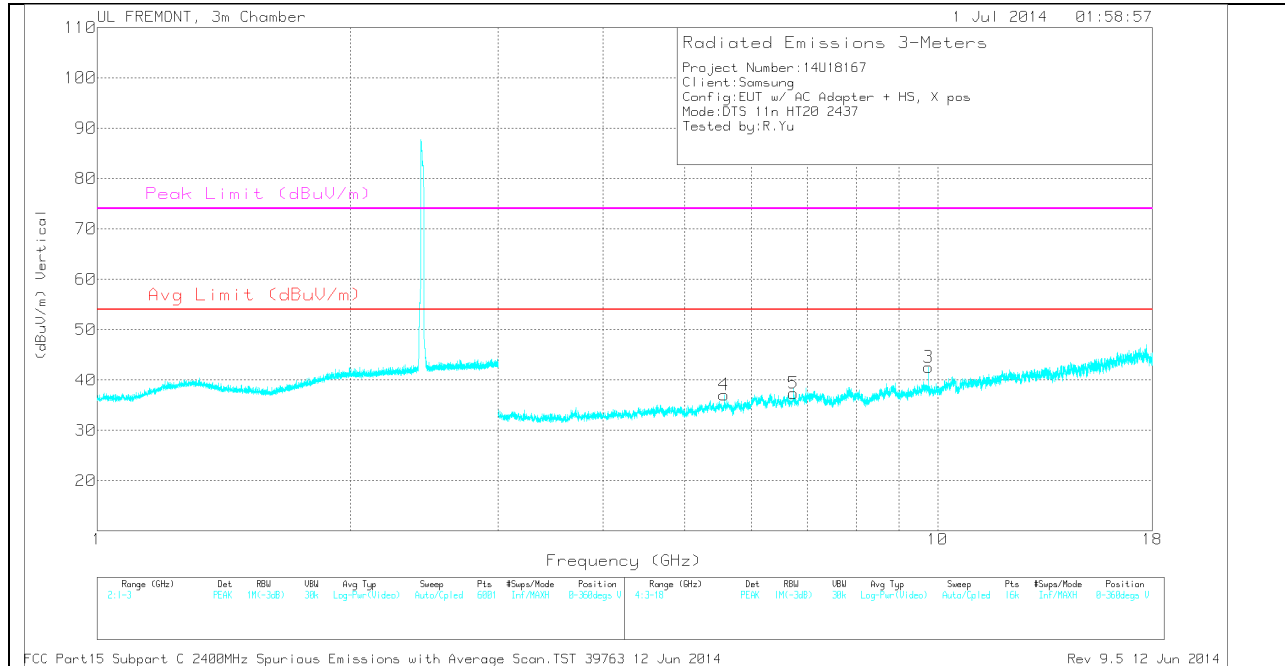
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

MID CHANNEL HORIZONTAL



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

MID CHANNEL VERTICAL



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

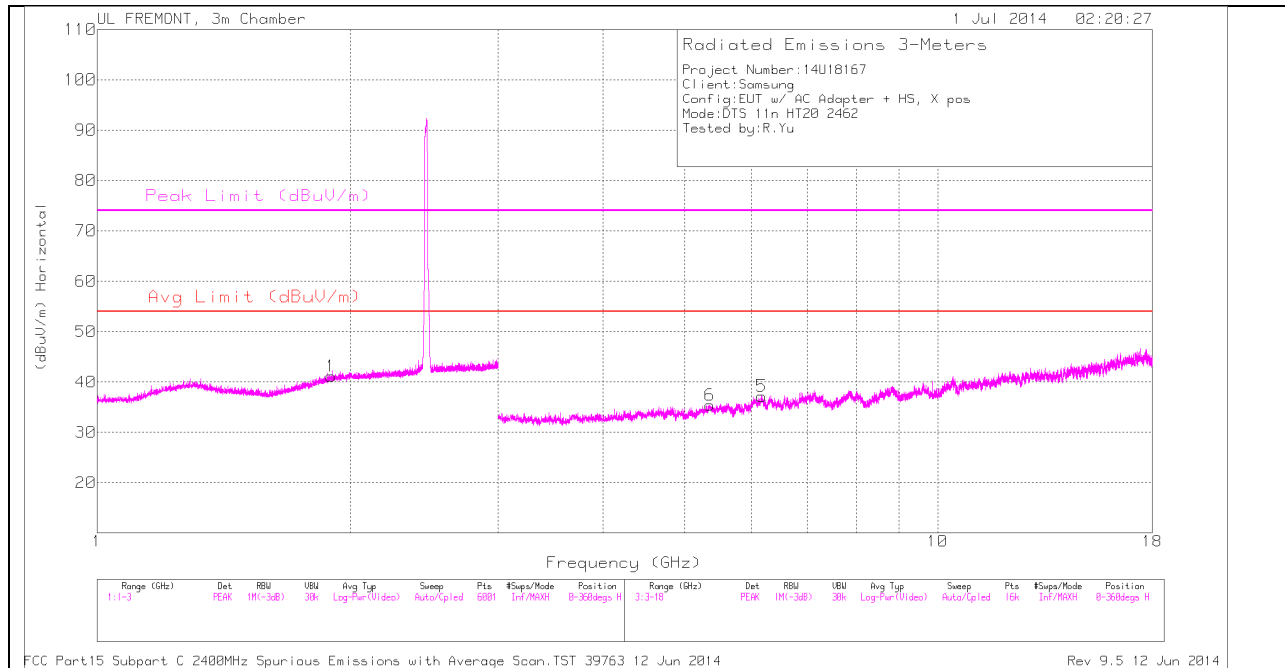
MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.311	34.41	PK	30.1	-23.8	0	40.71	-	-	74	-33.29	0-360	200	H
1	2.646	34.6	PK	32.6	-22.8	0	44.4	-	-	-	-	0-360	100	H
4	5.57	31.77	PK	34.8	-29.5	0	37.07	-	-	-	-	0-360	100	V
5	6.739	31.66	PK	35.6	-29.9	0	37.36	-	-	-	-	0-360	200	V
3	9.748	31.36	PK	36.9	-25.7	0	42.56	-	-	-	-	0-360	100	V
6	10.9	27.88	PK	37.9	-25.7	0	40.08	-	-	74	-33.92	0-360	200	H

PK - Peak detector

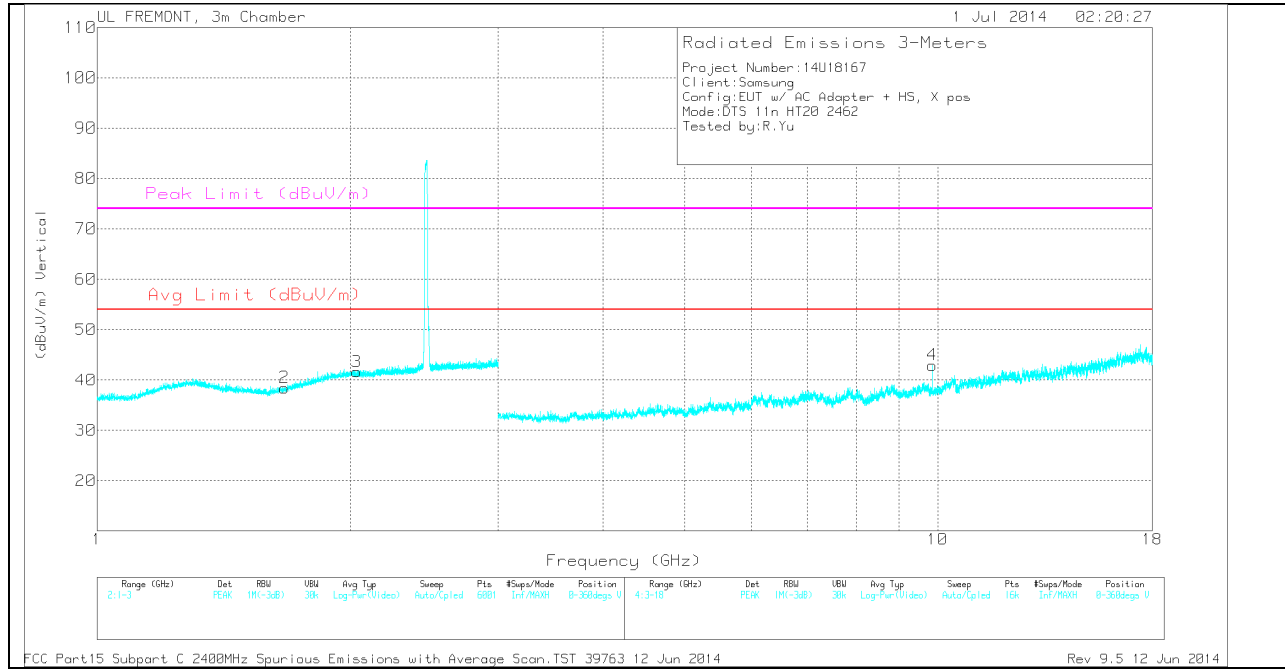
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

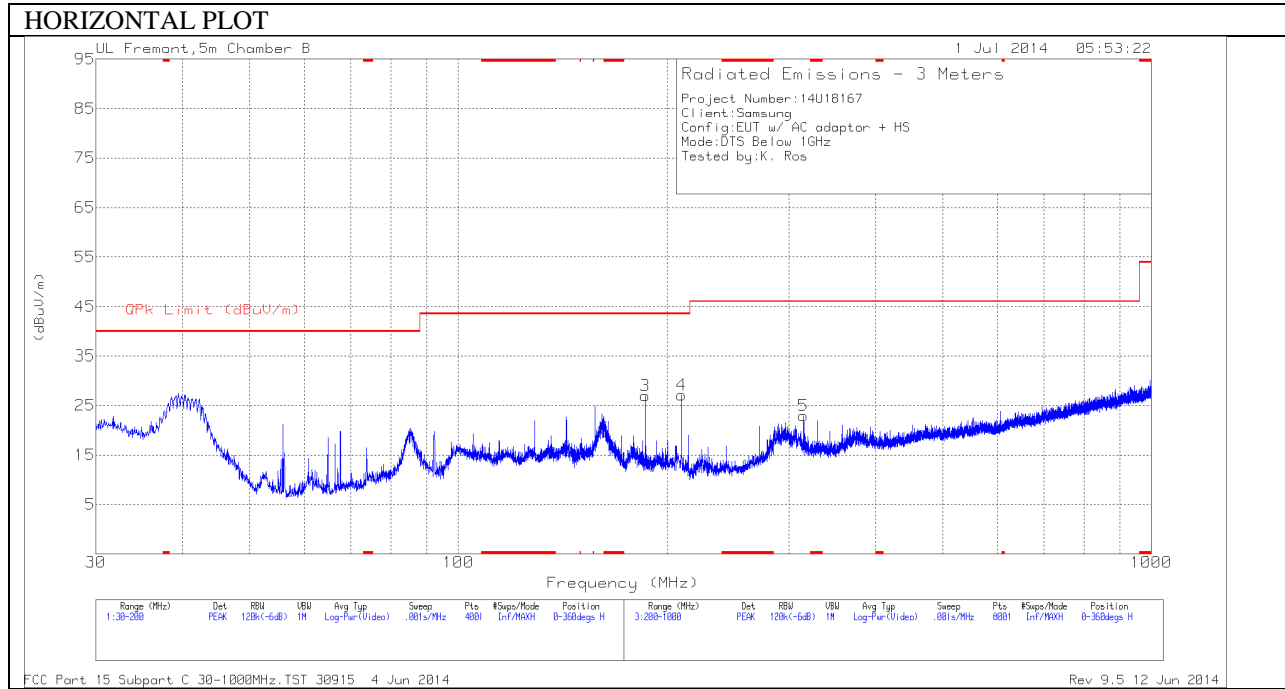
HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.67	33.16	PK	28.7	-23.4	0	38.46	-	-	74	-35.54	0-360	200	V
1	1.899	33.23	PK	31.2	-23.3	0	41.13	-	-	-	-	0-360	200	H
3	2.035	33.23	PK	31.6	-23.2	0	41.63	-	-	-	-	0-360	200	V
6	5.358	30.79	PK	34.6	-30	0	35.39	-	-	74	-38.61	0-360	100	H
5	6.175	31.88	PK	35.3	-30	0	37.18	-	-	-	-	0-360	100	H
4	9.848	31.96	PK	36.9	-25.9	0	42.96	-	-	-	-	0-360	200	V

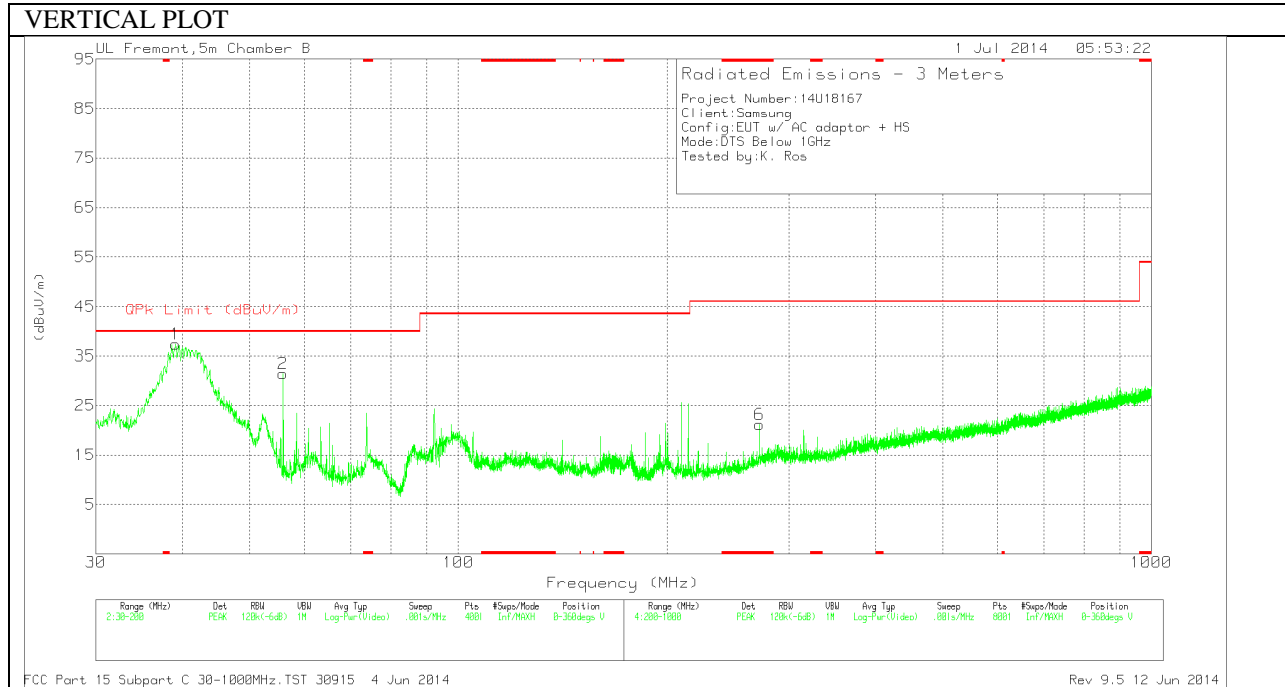
PK - Peak detector

10.3. WORST-CASE BELOW 1 GHz (11B mode)

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



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



Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AFT243 (dB/m)	Amp/Cbl (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 272.1	34.09	PK	13.3	-26.2	0	21.19	46.02	-24.83	0-360	300	V
1	39.095	51.49	PK	14.6	-28.7	0	37.39	40	-2.61	0-360	101	V
2	55.8825	52.7	PK	7.2	-28.5	0	31.4	40	-8.6	0-360	101	V
3	186.145	43.07	PK	10.9	-27	0	26.97	43.52	-16.55	0-360	101	H
4	210	43.68	PK	10.3	-26.8	0	27.18	43.52	-16.34	0-360	101	H
5	315	35.08	PK	13.8	-25.9	0	22.98	46.02	-23.04	0-360	101	H

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

PK - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
39.0355	38.7	QP	14.7	-28.7	0	24.7	40	-15.3	359	102	V

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

QP - Quasi-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 2009.

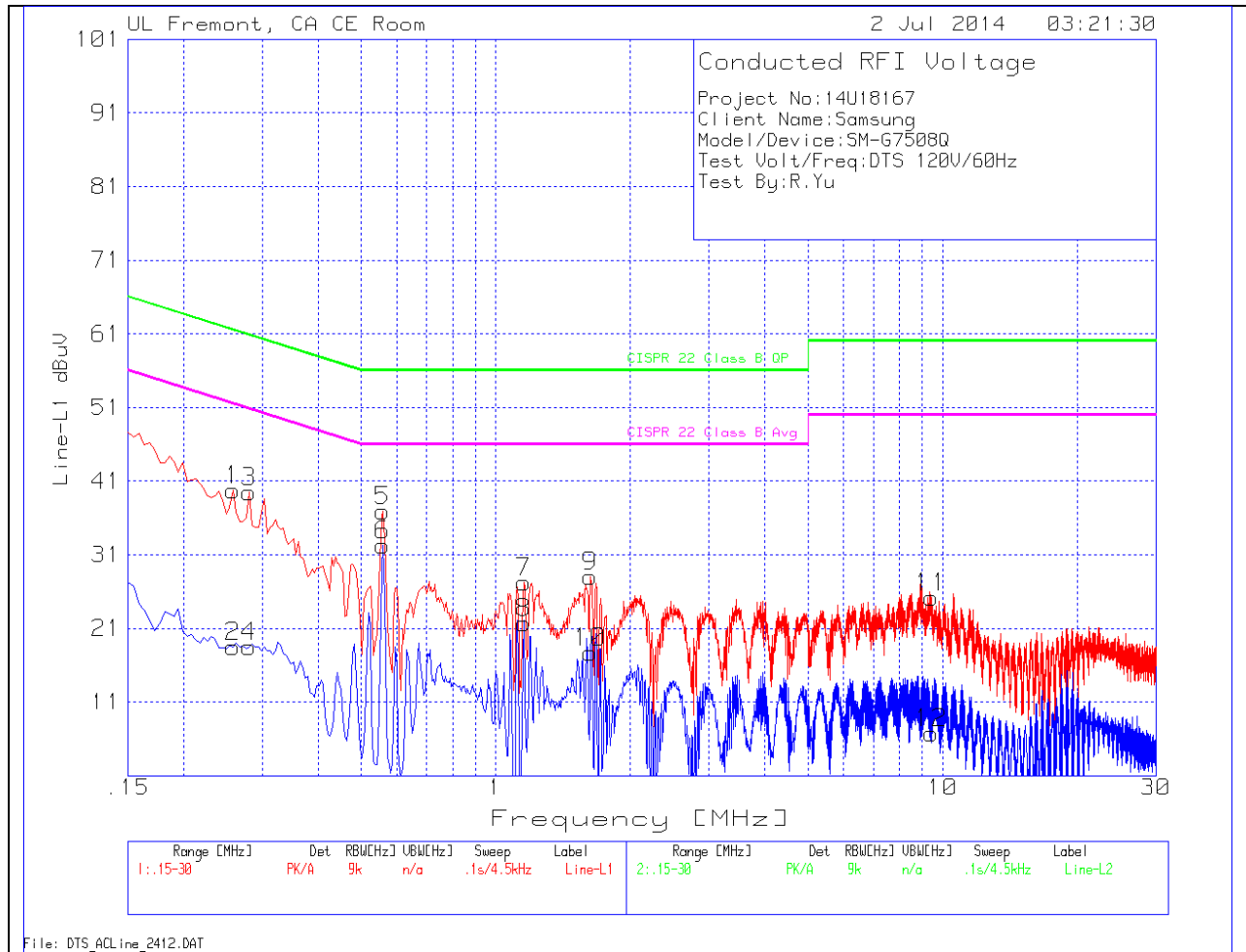
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



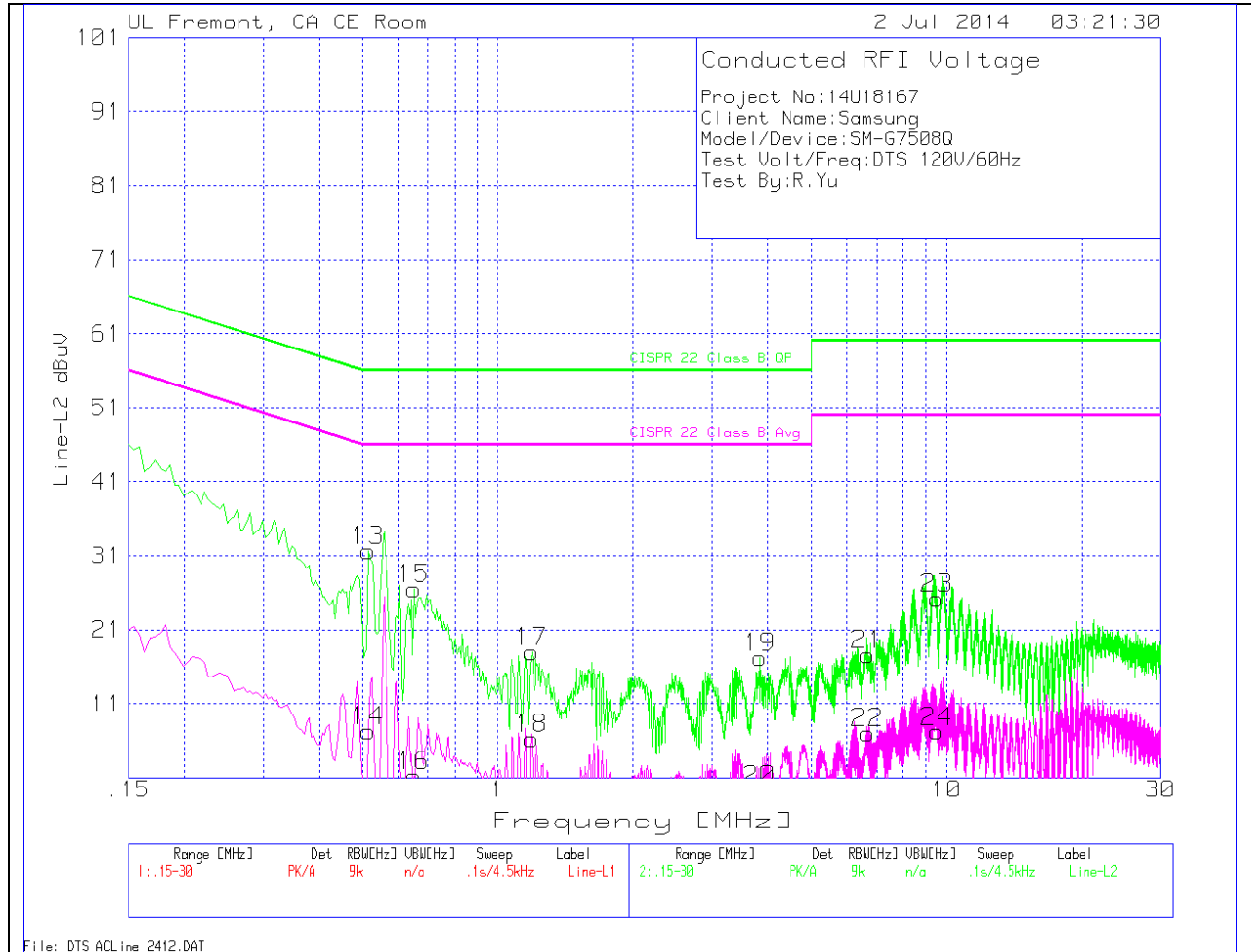
LINE 1 RESULTS

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.258	39.04	PK	.7	0	39.74	61.5	-21.76	-	-
2	.258	17.74	Av	.7	0	18.44	-	-	51.5	-33.06
3	.2805	38.86	PK	.6	0	39.46	60.8	-21.34	-	-
4	.2805	17.88	Av	.6	0	18.48	-	-	50.8	-32.32
5	.5595	36.63	PK	.3	0	36.93	56	-19.07	-	-
6	.5595	31.95	Av	.3	0	32.25	-	-	46	-13.75
7	1.158	27.04	PK	.2	0	27.24	56	-28.76	-	-
8	1.158	21.46	Av	.2	0	21.66	-	-	46	-24.34
9	1.6305	27.7	PK	.2	.1	28	56	-28	-	-
10	1.6305	17.46	Av	.2	.1	17.76	-	-	46	-28.24
11	9.4425	24.89	PK	.2	.1	25.19	60	-34.81	-	-
12	9.4425	6.49	Av	.2	.1	6.79	-	-	50	-43.21

LINE 2 PLOT



LINE 2 RESULTS

Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
13	.5145	31.23	PK	.4	0	31.63	56	-24.37	-	-
14	.5145	6.92	Av	.4	0	7.32	-	-	46	-38.68
15	.6495	26.18	PK	.3	0	26.48	56	-29.52	-	-
16	.6495	.97	Av	.3	0	1.27	-	-	46	-44.73
17	1.1895	17.56	PK	.3	.1	17.96	56	-38.04	-	-
18	1.1895	5.84	Av	.3	.1	6.24	-	-	46	-39.76
19	3.8355	16.87	PK	.2	.1	17.17	56	-38.83	-	-
20	3.8355	-1.07	Av	.2	.1	-1.77	-	-	46	-46.77
21	6.6795	17.27	PK	.2	.1	17.57	60	-42.43	-	-
22	6.6795	6.68	Av	.2	.1	6.98	-	-	50	-43.02
23	9.5145	24.82	PK	.2	.2	25.22	60	-34.78	-	-
24	9.5145	6.81	Av	.2	.2	7.21	-	-	50	-42.79

PK - Peak detector

Av - average detection