



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA Phone + Bluetooth & WLAN 2.4GHz b/g/n

MODEL NUMBER: SM-G130BU/DS

FCC ID: A3LSMG130BU

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Prepared for
SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU
SUWON-CITY, GYEONGGI-DO 443-742, SOUTH KOREA

Prepared by
UL VERIFICATION SERVICES INC.
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888



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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA Phone + Bluetooth and WLAN 2.4GHz b/g/n

MODEL: SM-G130BU/DS

SERIAL NUMBER: 2027513 (Radiated); 2027514 (Conducted)

DATE TESTED: JANUARY 5 - 6, 2015

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:



PENG ZHANG

CONSUMER TECHNOLOGY DIVISION
PROJECT LEADER
UL Verification Services Inc.

Tested By:



ROLLY ALEGRE

CONSUMER TECHNOLOGY DIVISION
LAB TECHNICIAN
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.4-2009.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☐ Chamber A	☐ Chamber D
☒ Chamber B	☐ Chamber E
☐ Chamber C	☐ Chamber F

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 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 26000 MHz	4.94 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA Phone + Bluetooth and WLAN DTS 2.4Ghz b/g/n.

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	13.3	21.38
2412 - 2462	802.11g	10.8	12.02
2412 - 2462	802.11n HT20	11.7	14.79

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -1.23 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 Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y 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	ETS01U10BBB	N/A	N/A
Earphone	SAMSUNG	N/A	N/A	N/A

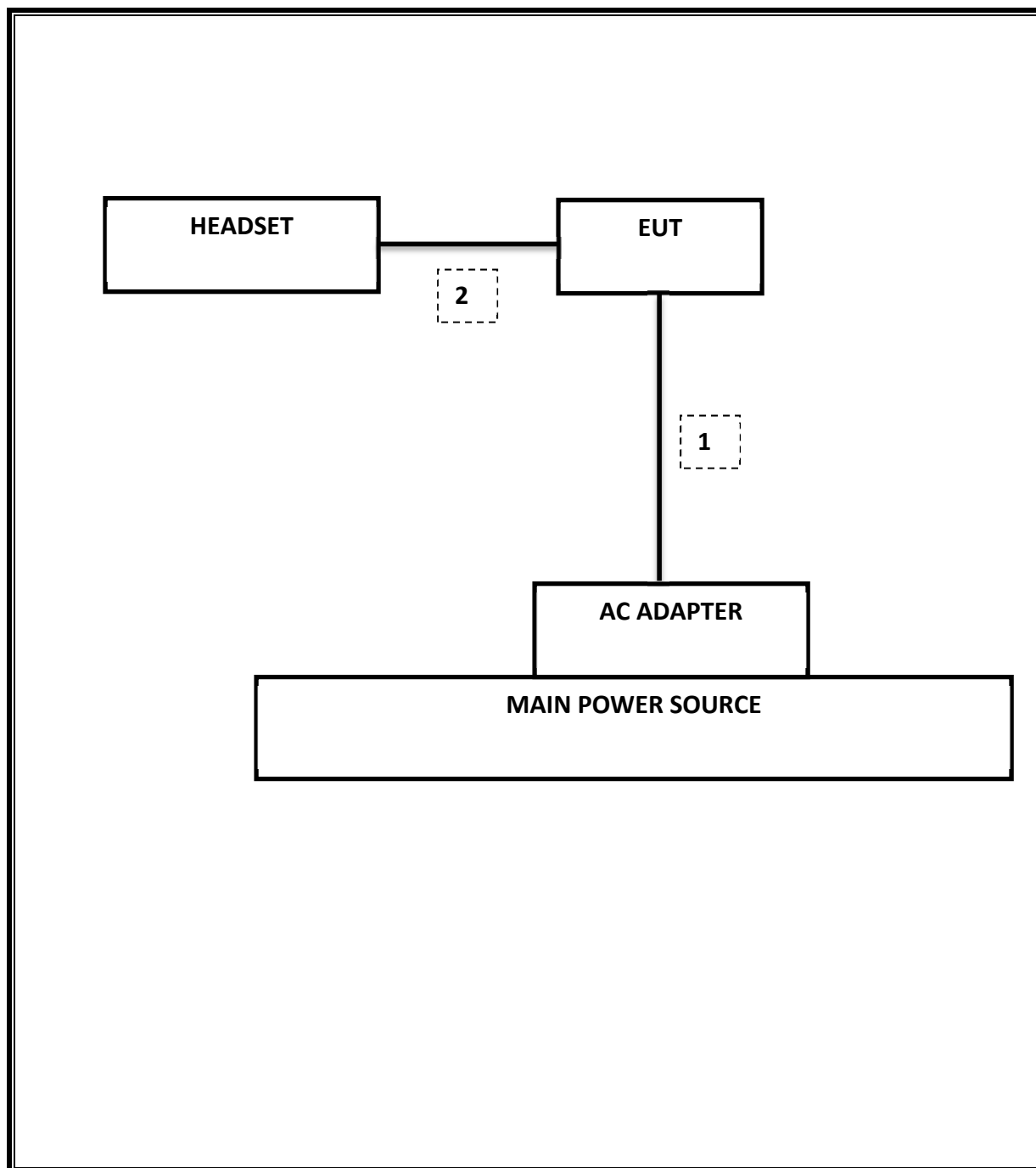
I/O CABLES

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

TEST SETUP

The EUT is 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	12/20/15
Spectrum Analyzer, 9KHz-40GHz	HP	8564E	C00986	04/01/15
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	1000741	08/13/15
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/18/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
Antenna, Horn, 1-18 GHz	ETS	3117	C01022	02/21/15
Antenna, Horn, 18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/15
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	08/20/15
Attenuator / Switch driver	HP	11713A	F00204	CNR
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	F00219	05/23/15

7. MEASUREMENT METHODS

KDB 558074 D01 DTS Meas Guidance v03r02: Measurement Procedure AVGPM-G is used for power and AVGPS-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	8.10MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-32.85dBm
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	13.3dBm
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	-17.62dBm
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	49.28dBuV(PK)
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	47.81dBuV/m

9. ANTENNA PORT TEST RESULTS

9.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

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

TEST PROCEDURE

Reference to KDB 558074 D01 DTS Meas Guidance v03r02: The transmitter output is connected to a spectrum analyzer with the RBW set to 100 kHz, 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	9.02	0.5
Mid	2437	8.10	0.5
High	2462	8.56	0.5
Worst		8.10	

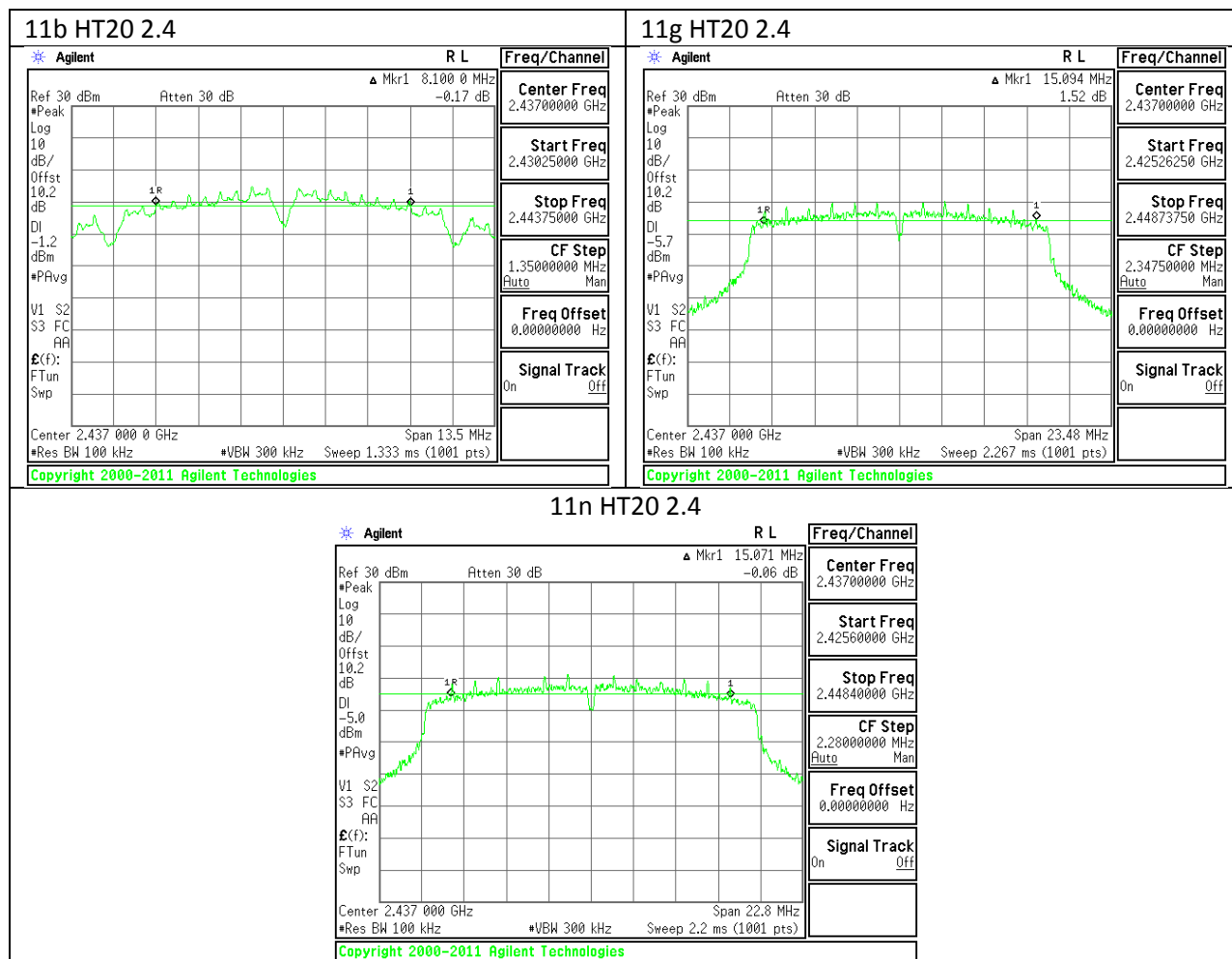
9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	15.06	0.5
Mid	2437	15.09	0.5
High	2462	15.13	0.5
Worst		15.06	

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	15.11	0.5
Mid	2437	15.07	0.5
High	2462	15.10	0.5
Worst		15.07	

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	14.01
Mid	2437	14.01
High	2462	14.03
Worst		14.03

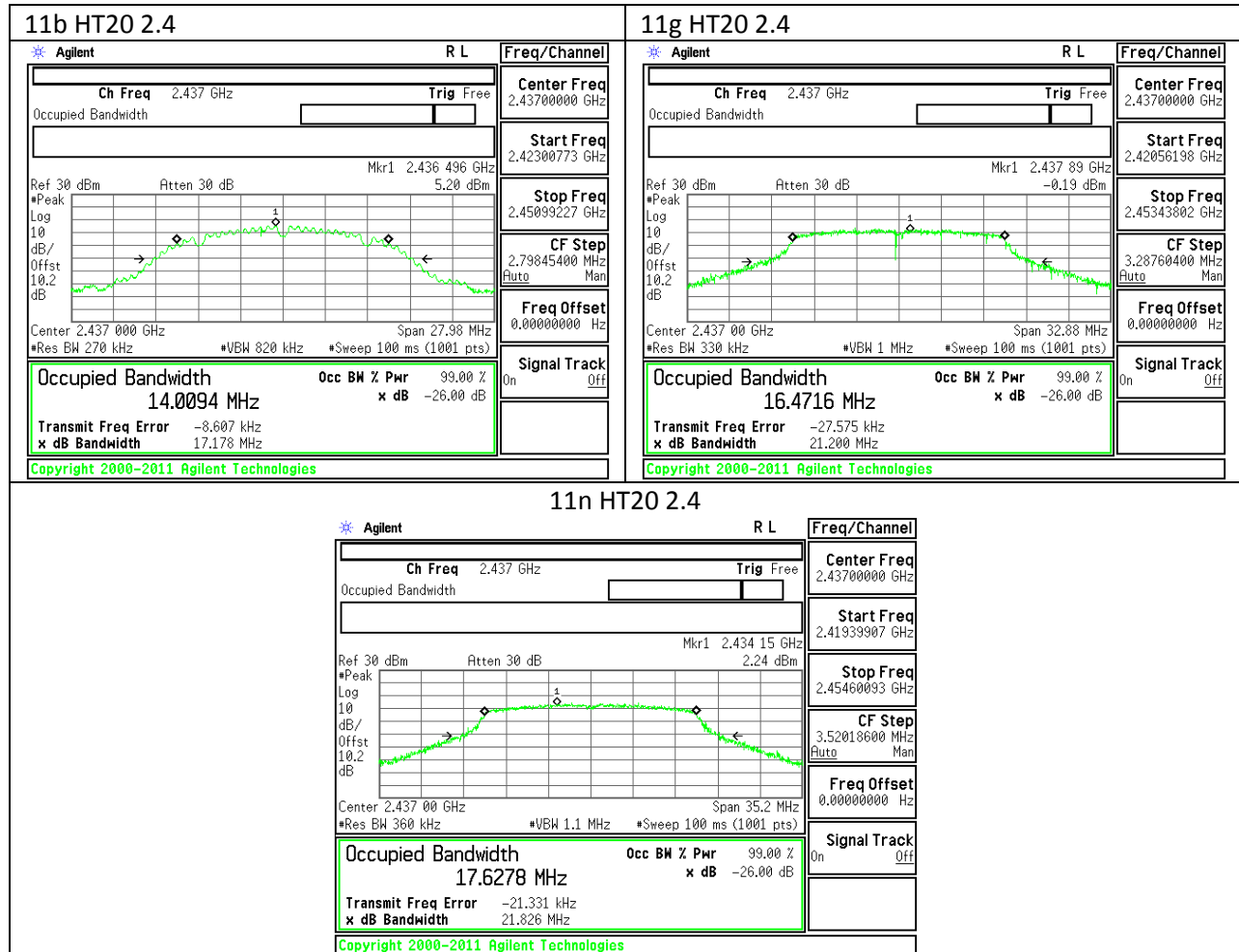
9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.52
Mid	2437	16.47
High	2462	16.47
Worst		16.52

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.59
Mid	2437	17.63
High	2462	17.58
Worst		17.63

9.2.4. 99% BANDWIDTH MID CH PLOTS



9.3. OUTPUT POWER

LIMITS

FCC §15.247

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

KDB 558074 D01 DTS Meas Guidance v03r02: Measurement Procedure AVGPM-G is used for power. The transmitter output is connected to a power meter. The cable assembly insertion loss of 0.2 dB (including 10 dB pad and 0.2 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

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	-1.23	30.00	30	36	30.00
Mid	2437	-1.23	30.00	30	36	30.00
High	2462	-1.23	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	13.30	13.30	30.00	-16.70
Mid	2437	13.30	13.30	30.00	-16.70
High	2462	13.20	13.20	30.00	-16.80
Worst			13.30		

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	-1.23	30.00	30	36	30.00
Mid	2437	-1.23	30.00	30	36	30.00
High	2462	-1.23	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	10.70	10.70	30.00	-19.30
Mid	2437	10.70	10.70	30.00	-19.30
High	2462	10.80	10.80	30.00	-19.20
Worst			10.80		

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	-1.23	30.00	30	36	30.00
Mid	2437	-1.23	30.00	30	36	30.00
High	2462	-1.23	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	11.50	11.50	30.00	-18.50
Mid	2437	11.70	11.70	30.00	-18.30
High	2462	11.60	11.60	30.00	-18.40
Worst			11.70		

9.4. PSD

LIMITS

FCC §15.247

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	-17.62	8.0	-25.6
Mid	2437	-18.22	8.0	-26.2
High	2462	-18.41	8.0	-26.4

9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

PSD Results

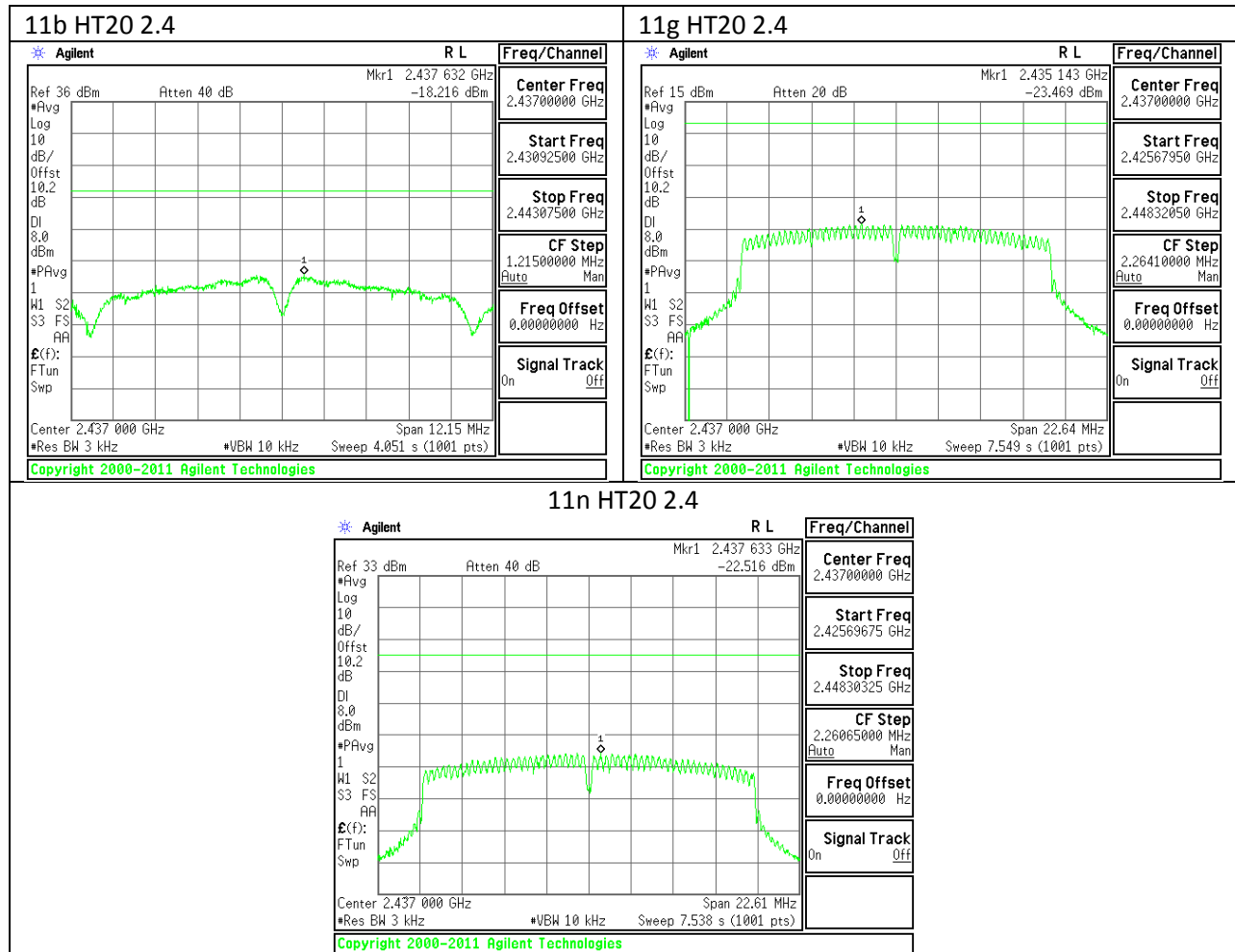
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-23.33	8.0	-31.3
Mid	2437	-23.47	8.0	-31.5
High	2462	-23.51	8.0	-31.5

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	-22.33	8.0	-30.3
Mid	2437	-22.52	8.0	-30.5
High	2462	-22.29	8.0	-30.3

9.4.4. PSD Chain 0 MID CH PLOTS



9.5. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

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.

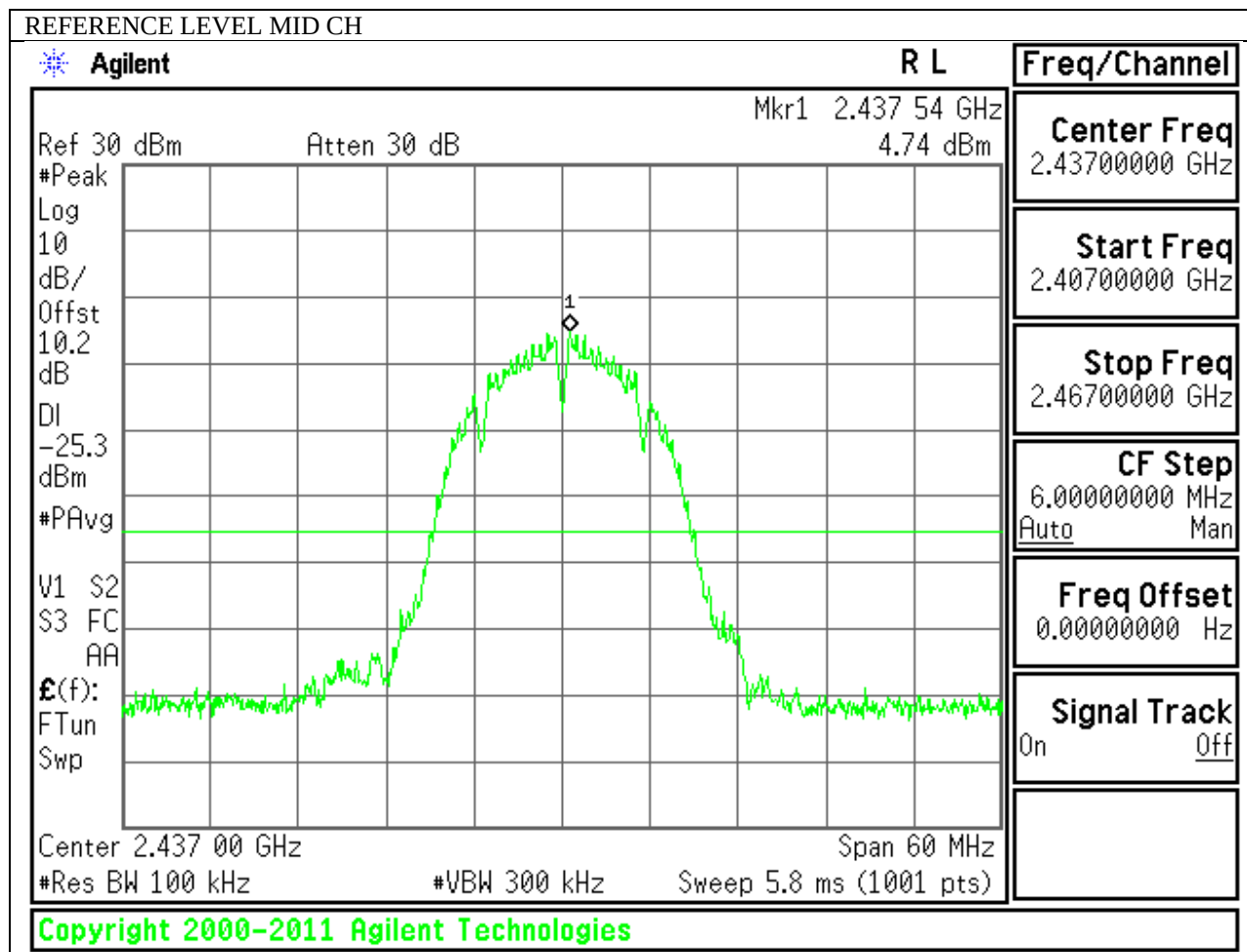
TEST PROCEDURE

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.

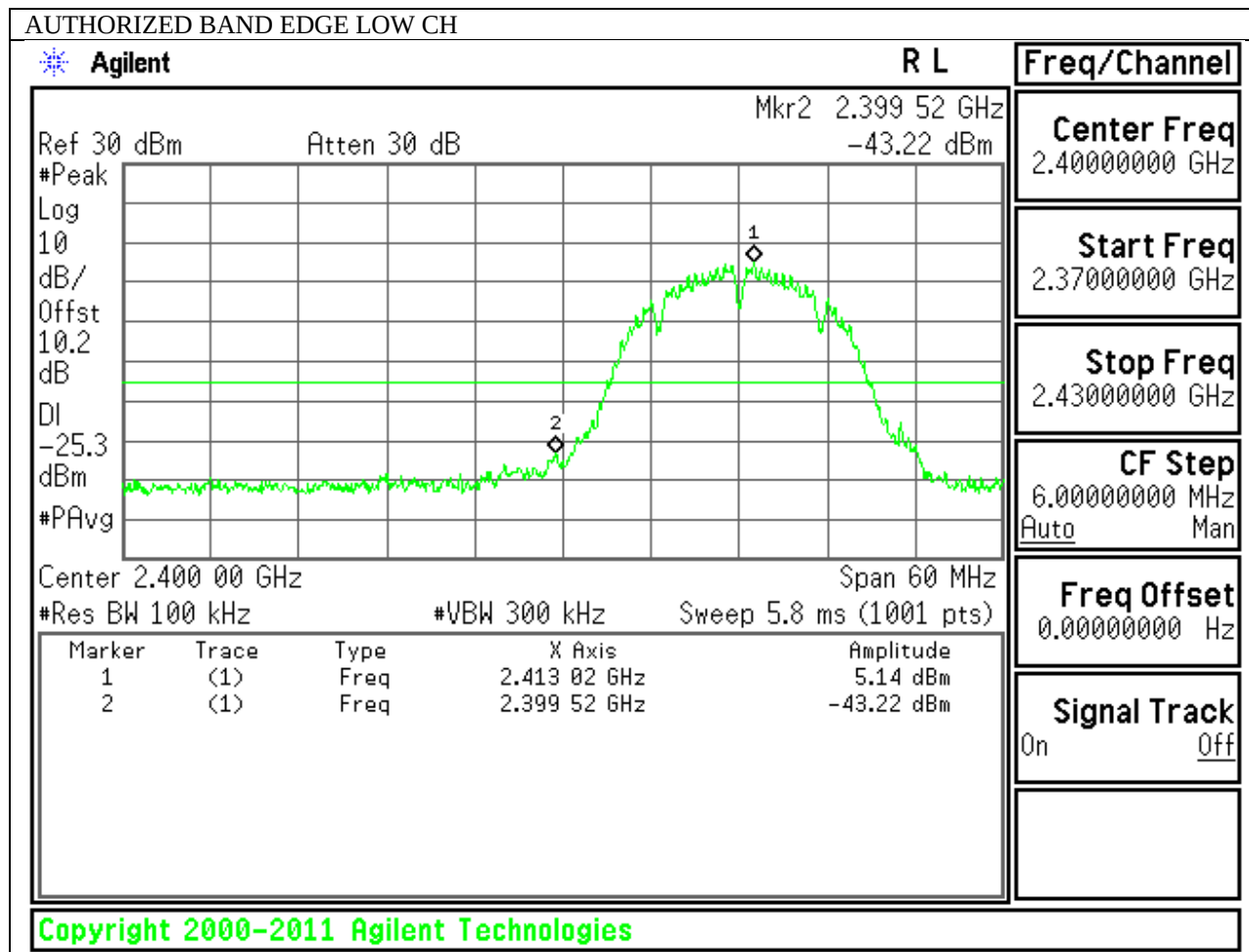
RESULTS

9.5.1. 802.11b MODE IN THE 2.4 GHz BAND

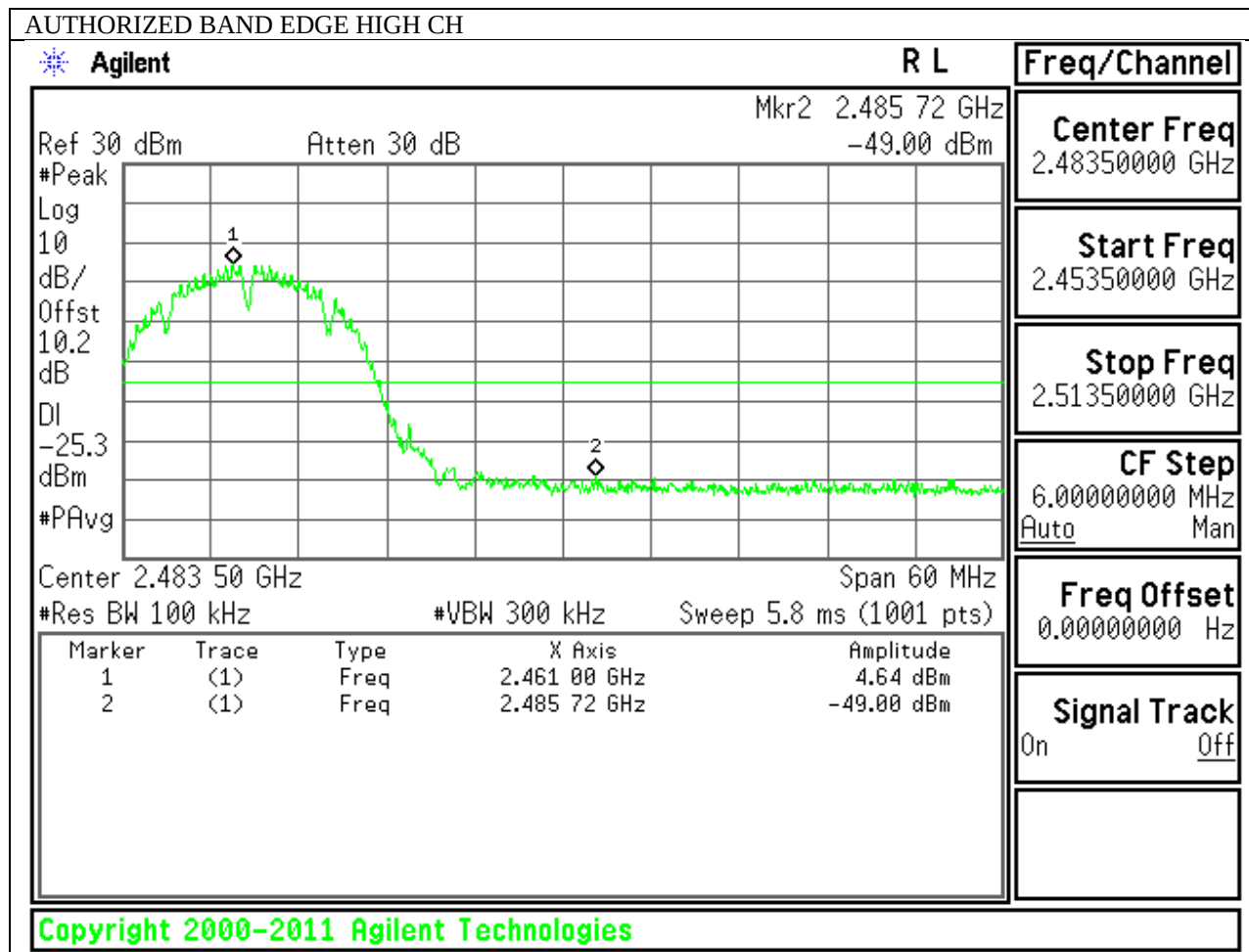
IN-BAND REFERENCE LEVEL



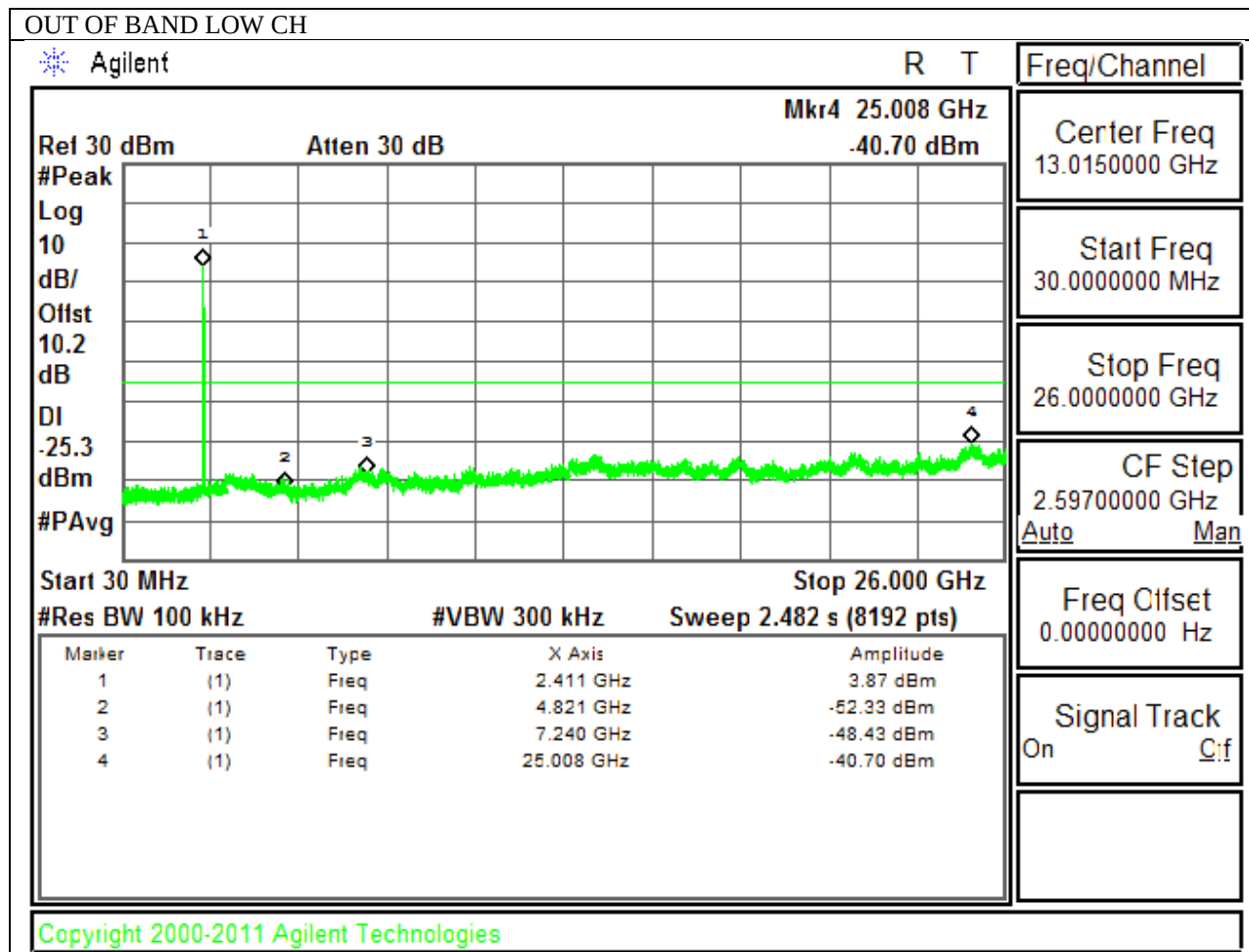
LOW CHANNEL BANDEDGE

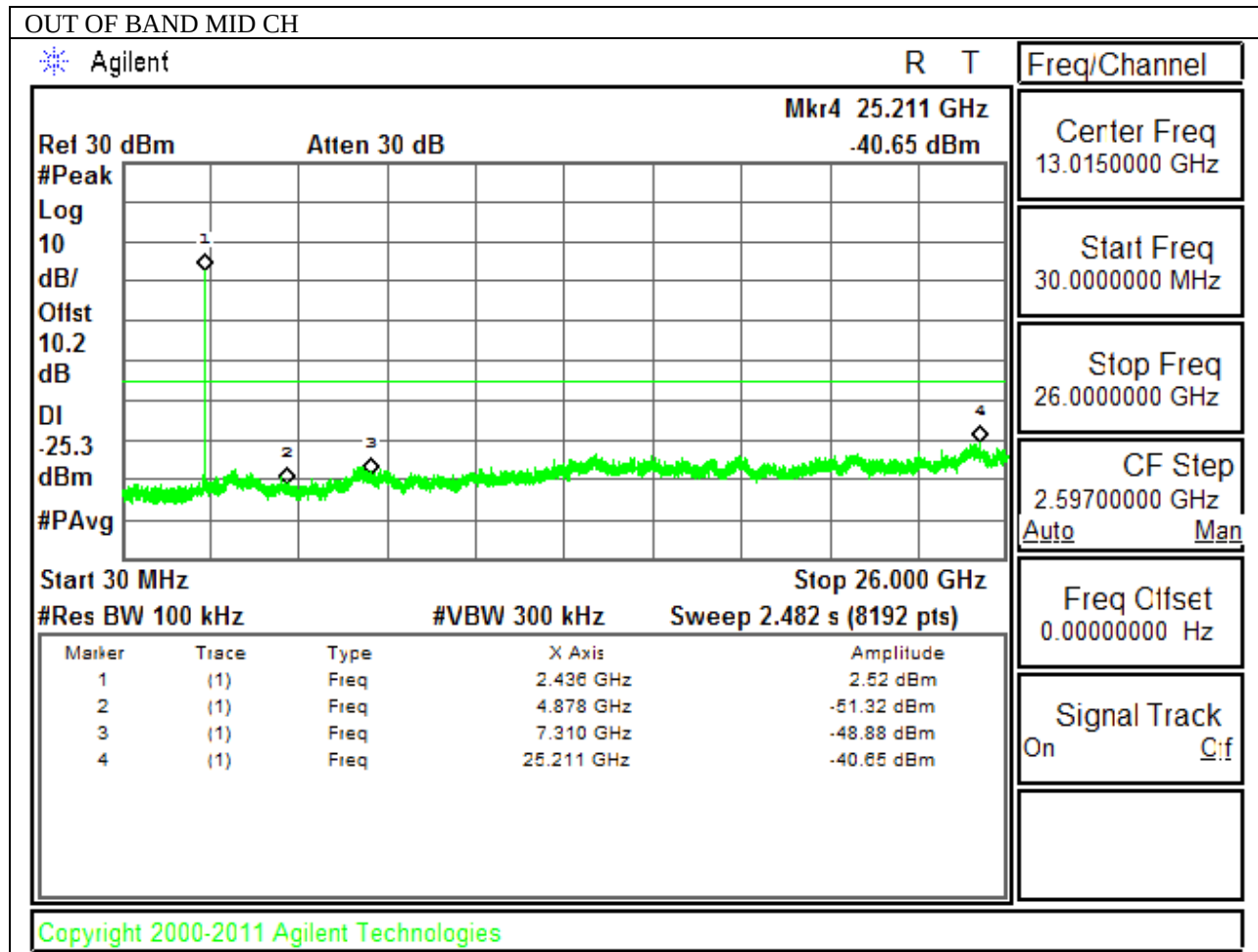


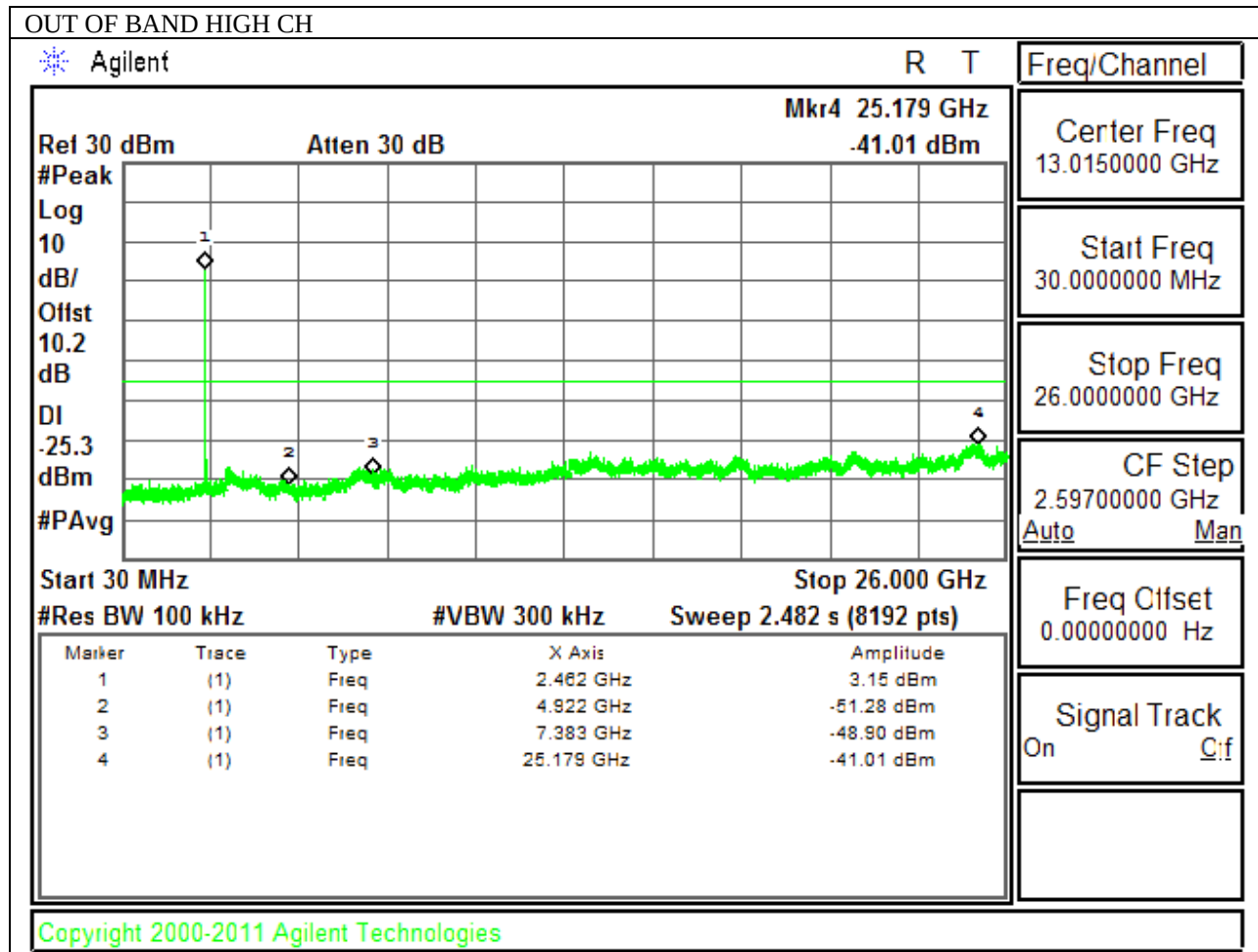
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

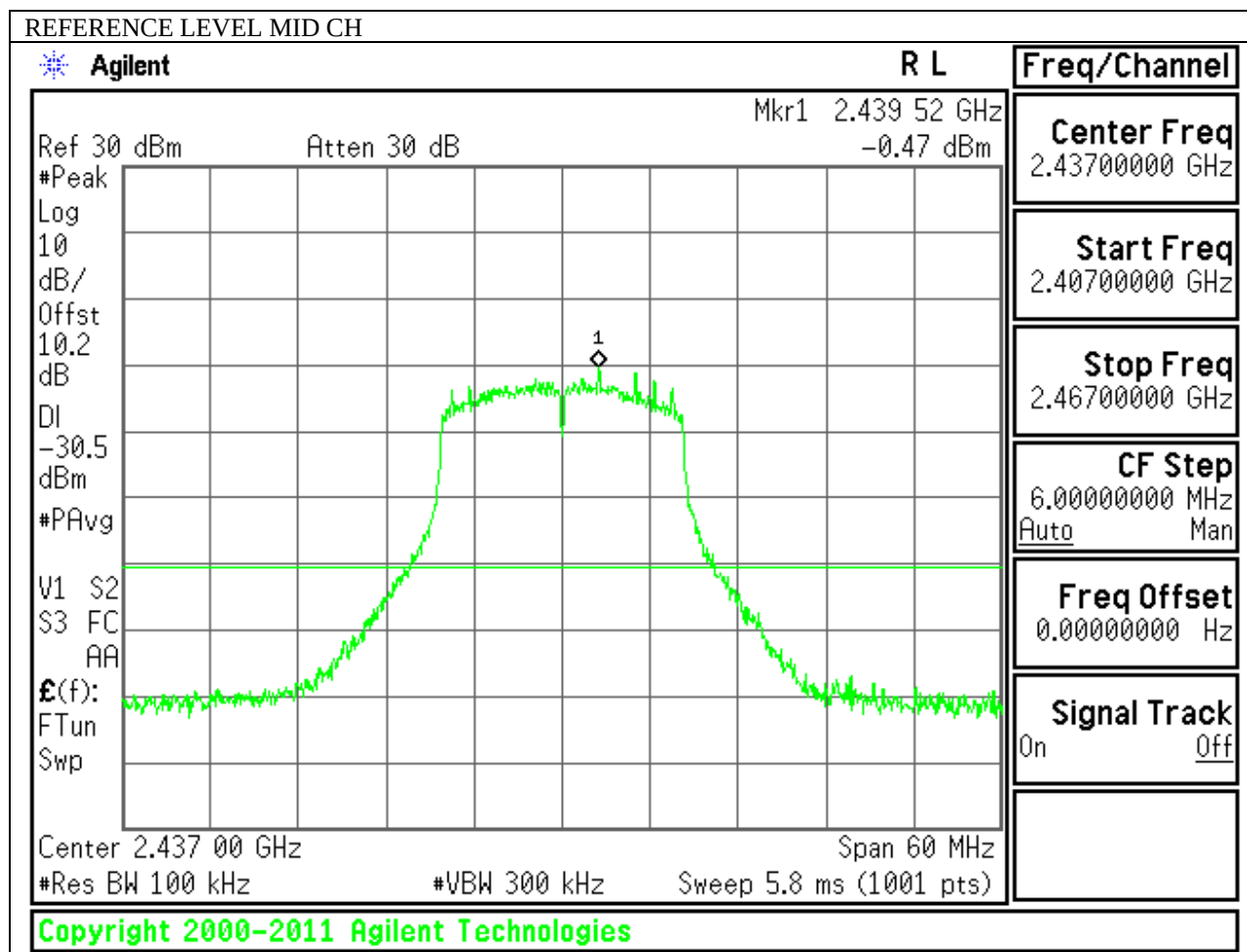




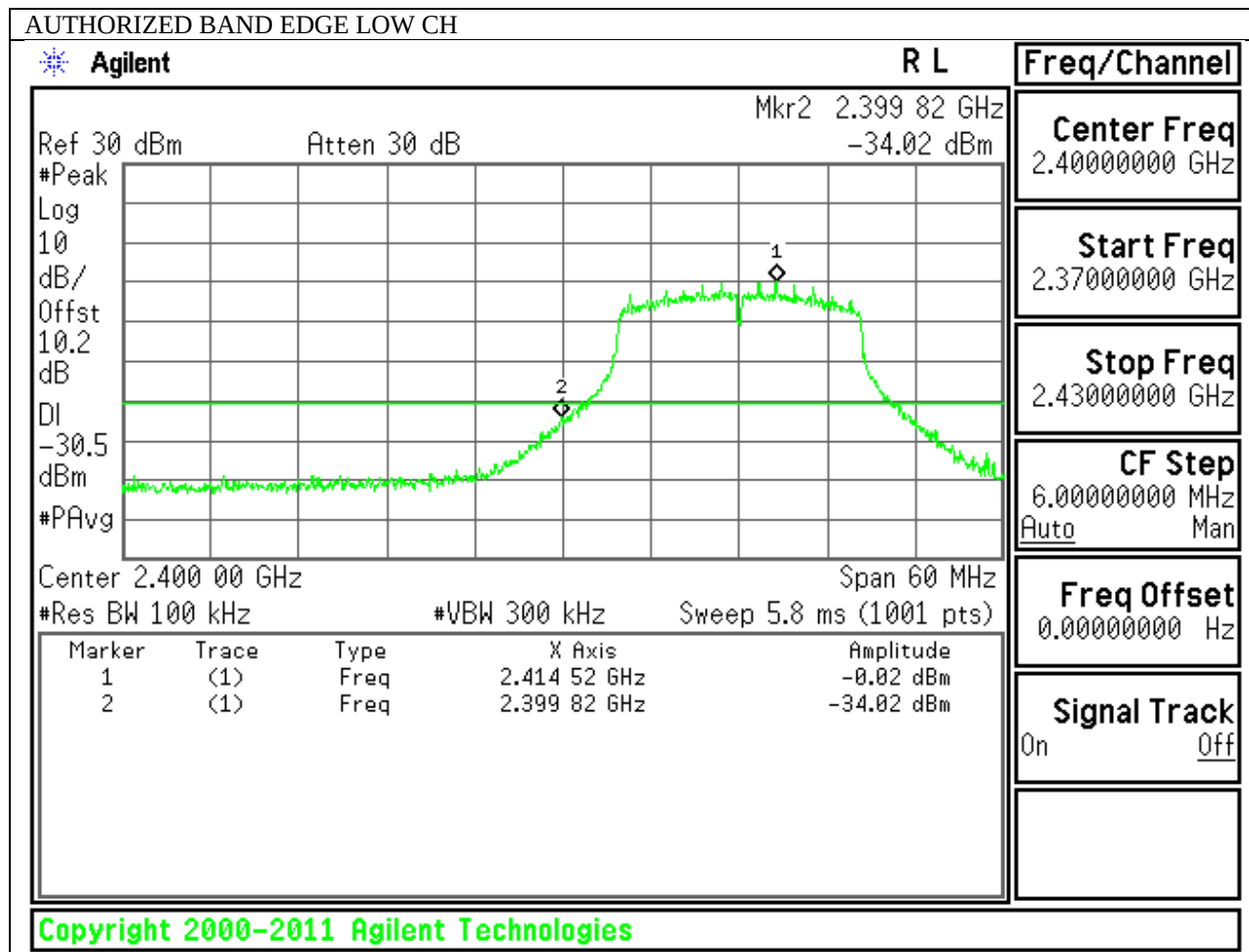


9.5.2. 802.11g MODE IN THE 2.4 GHz BAND

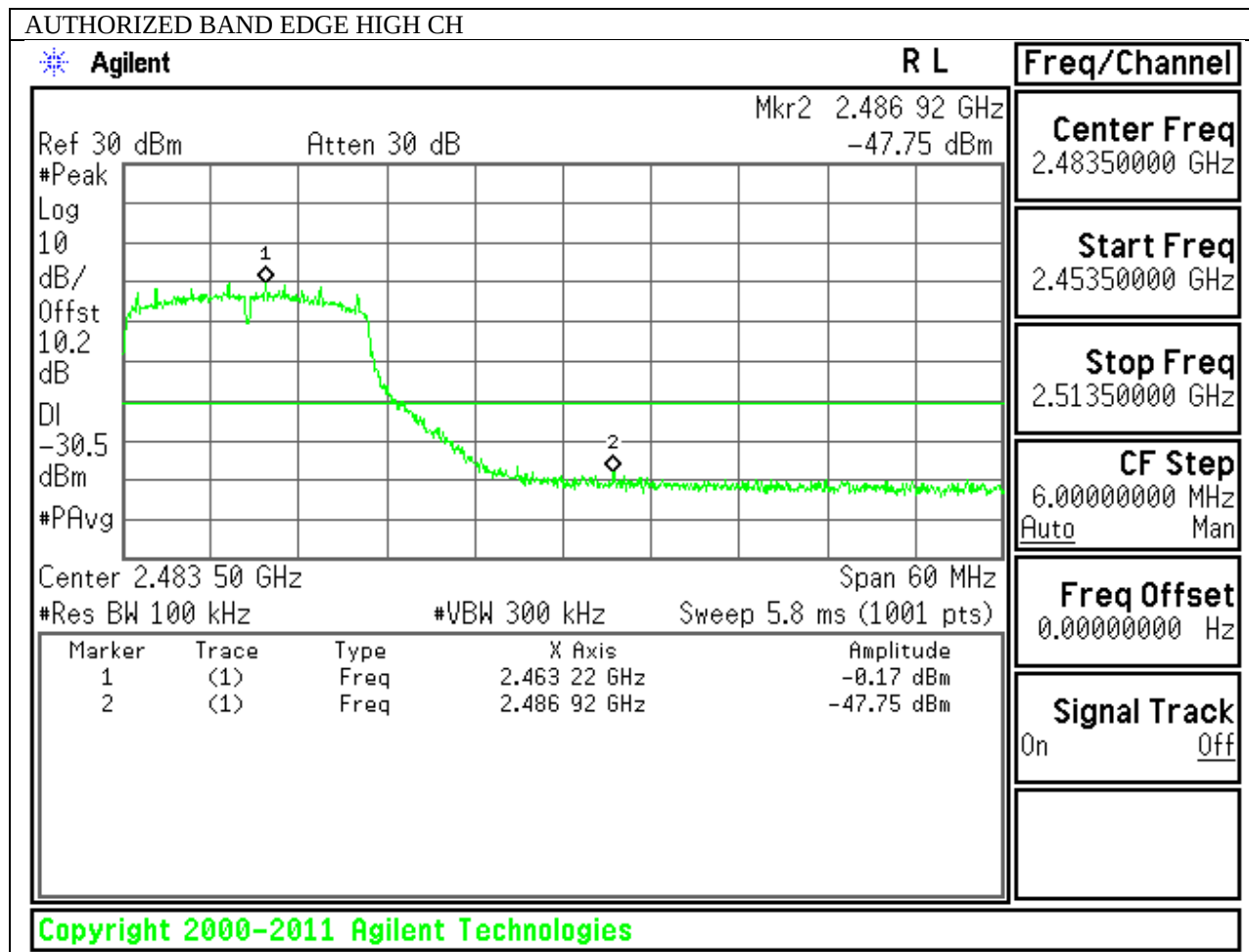
IN-BAND REFERENCE LEVEL



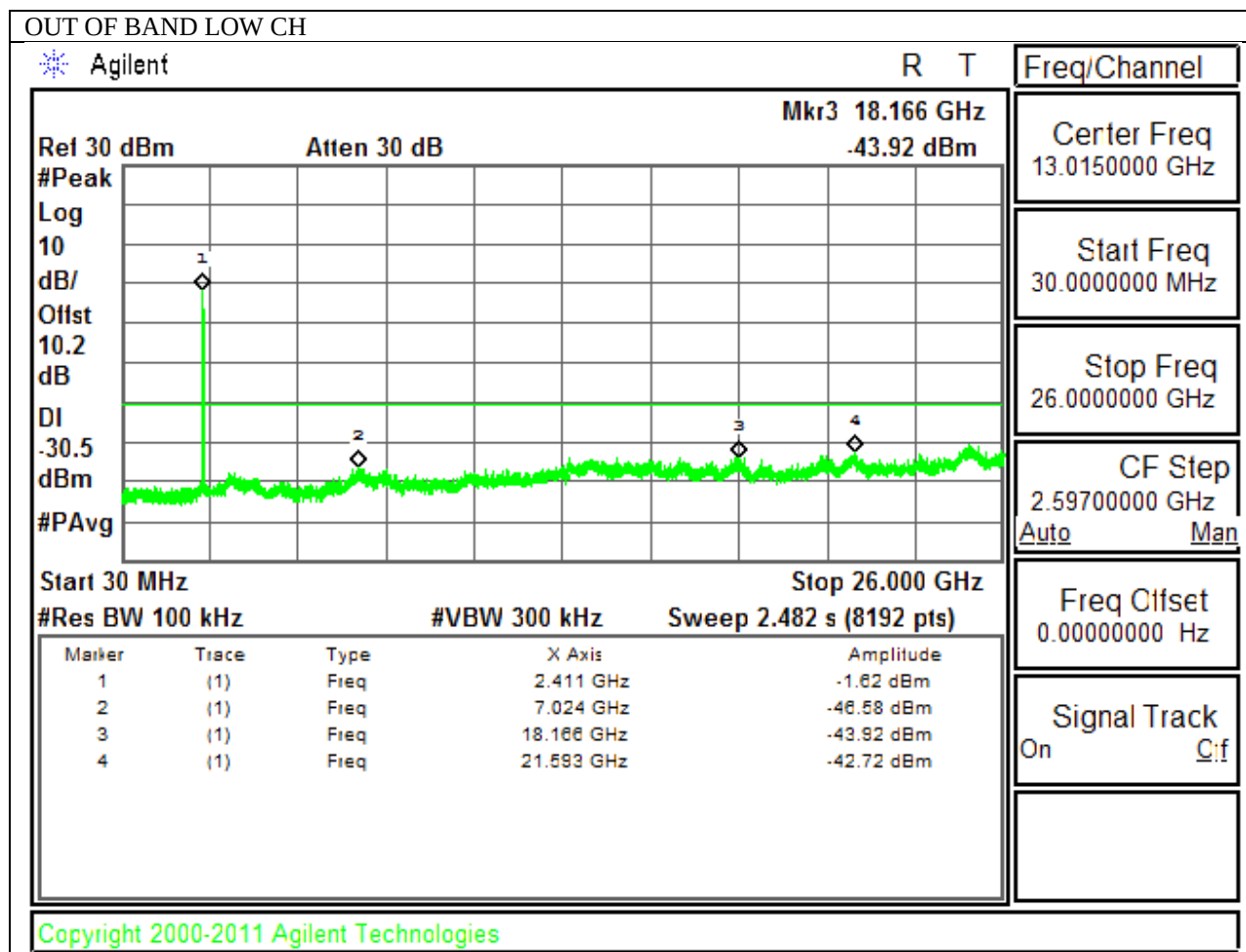
LOW CHANNEL BANDEDGE

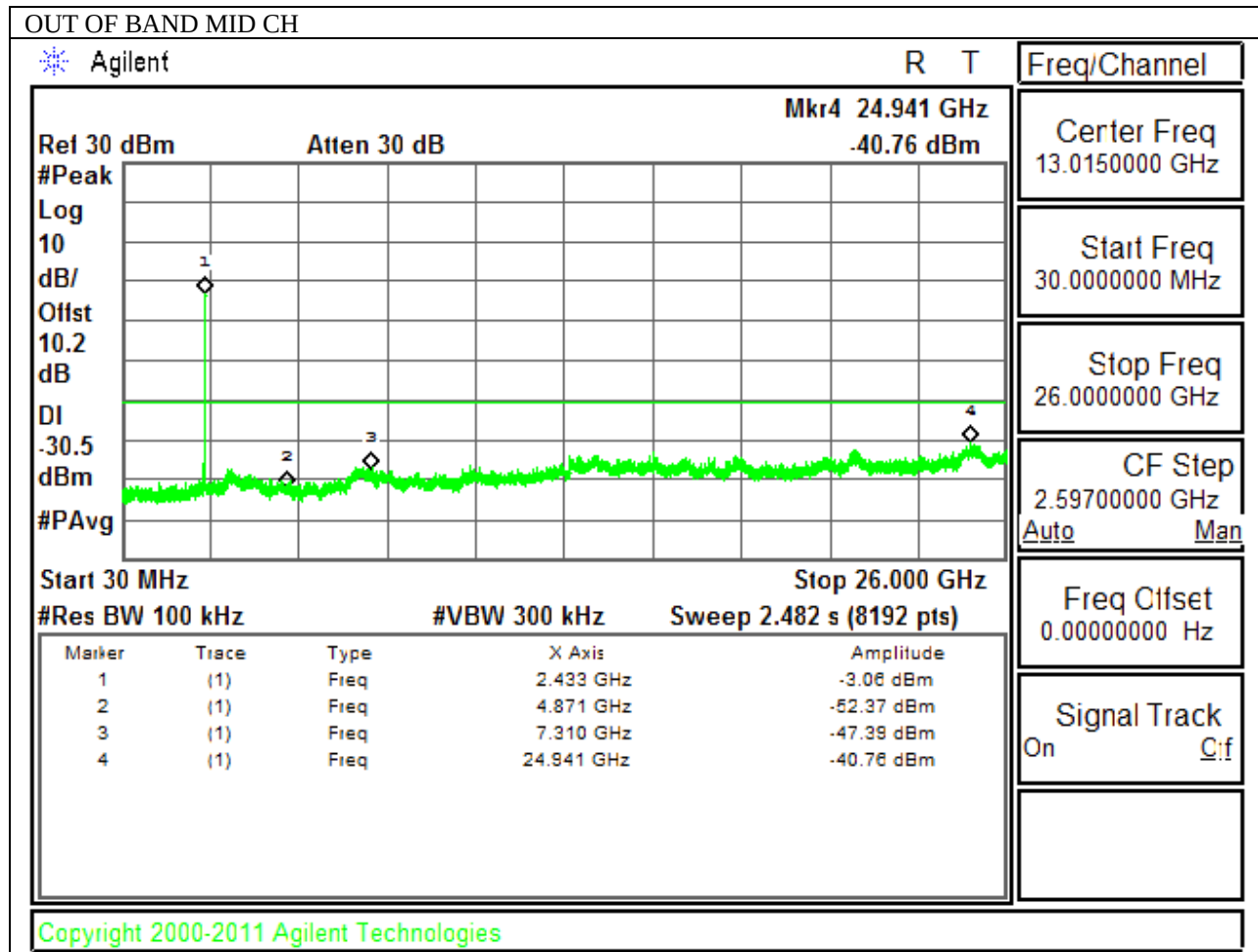


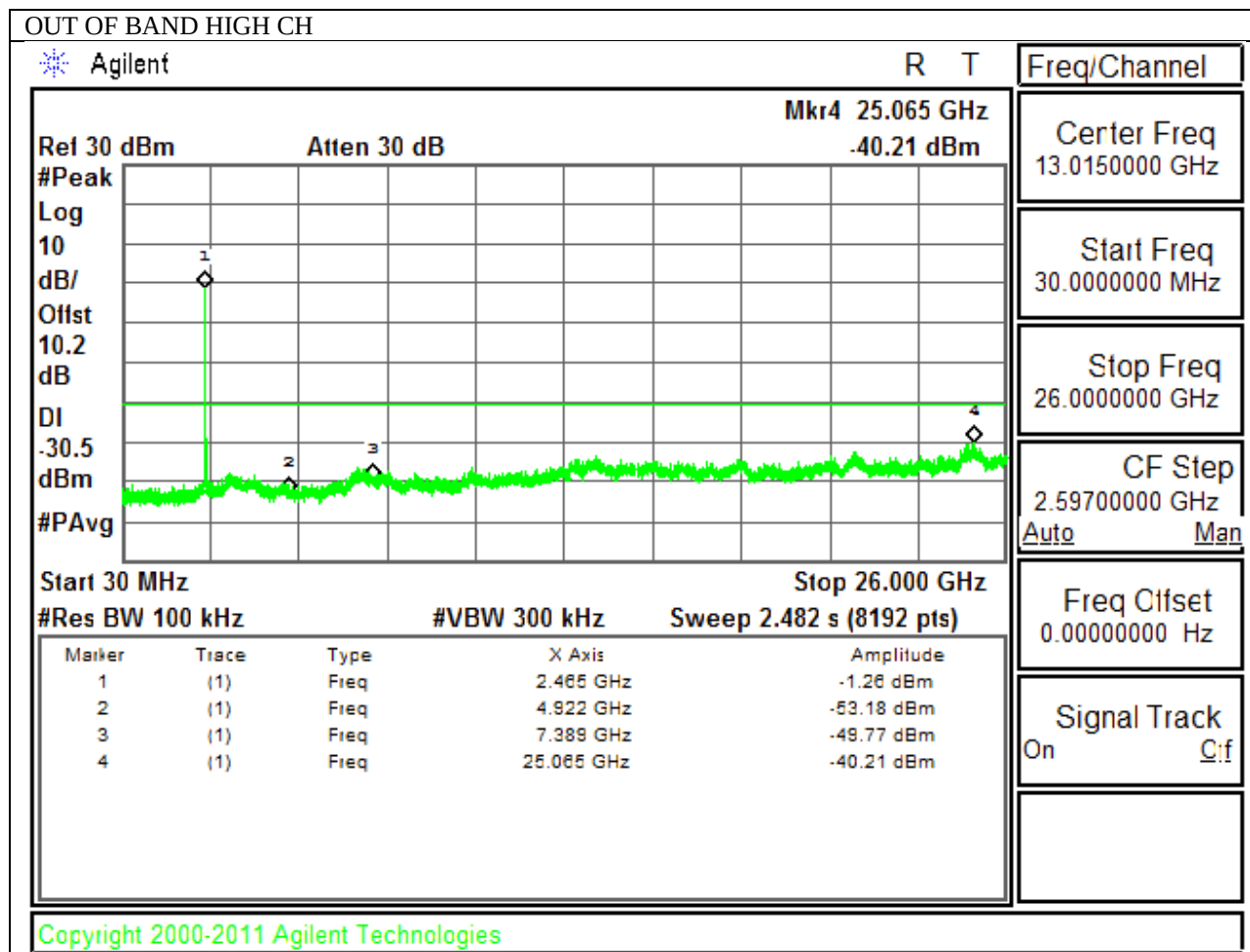
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

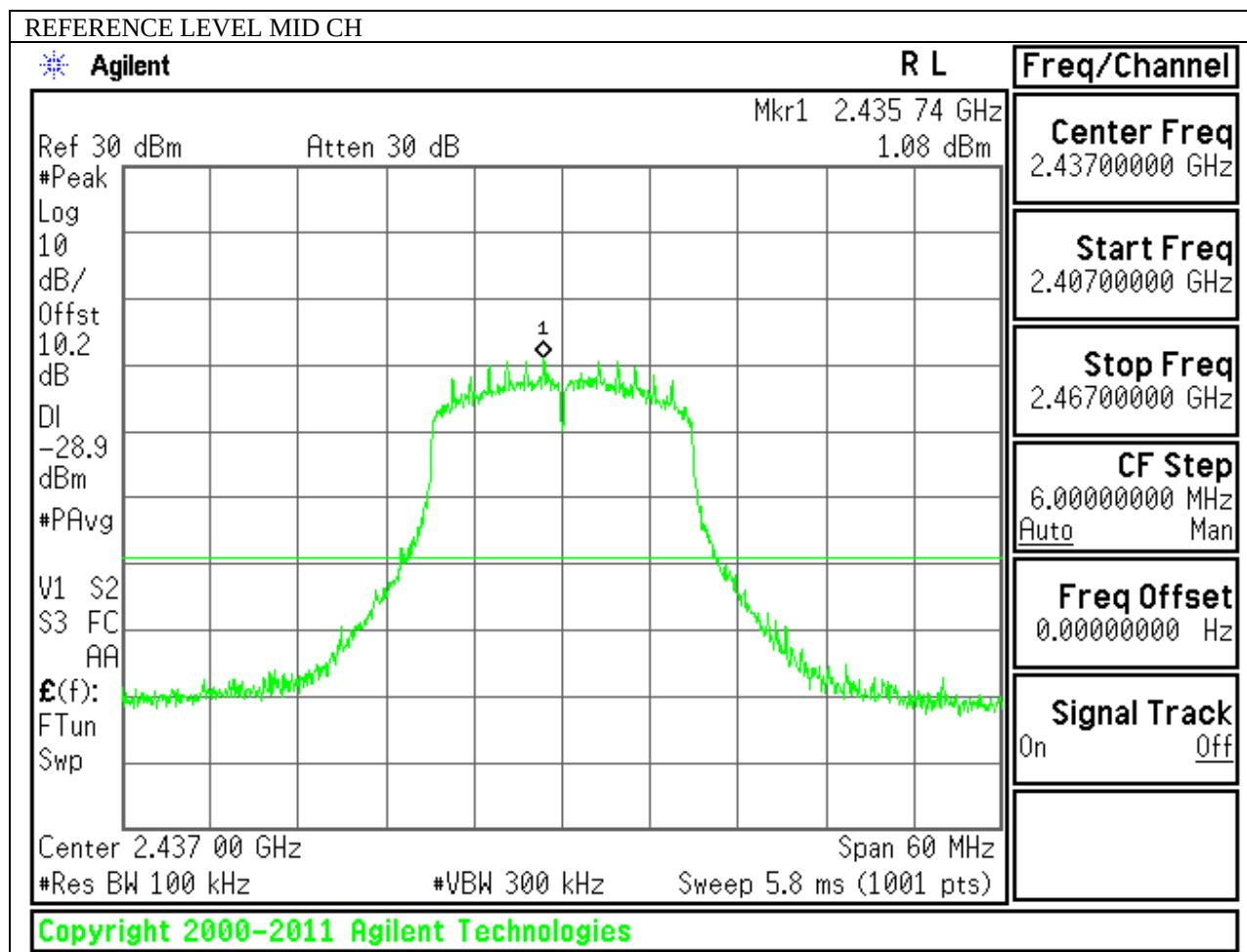




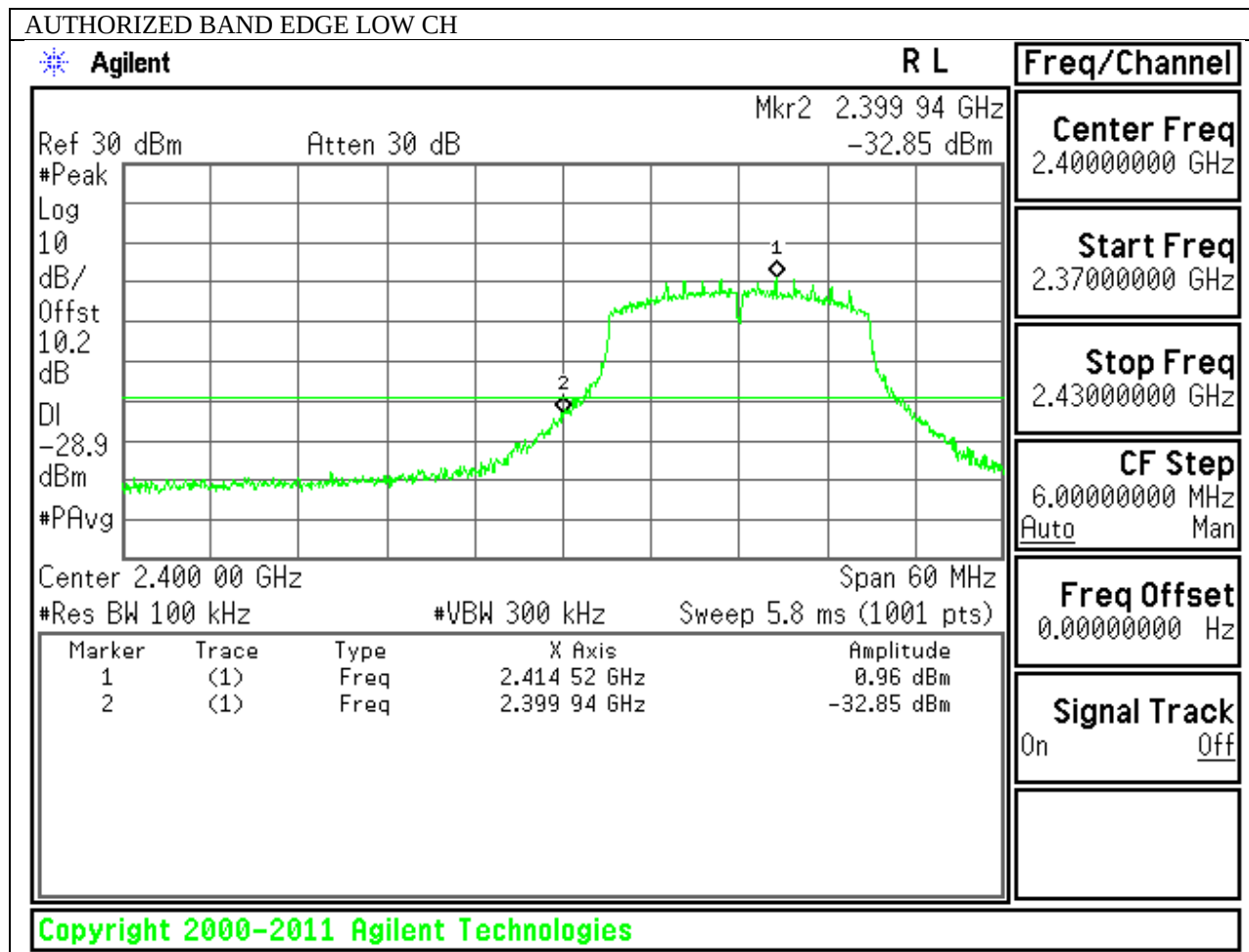


9.5.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

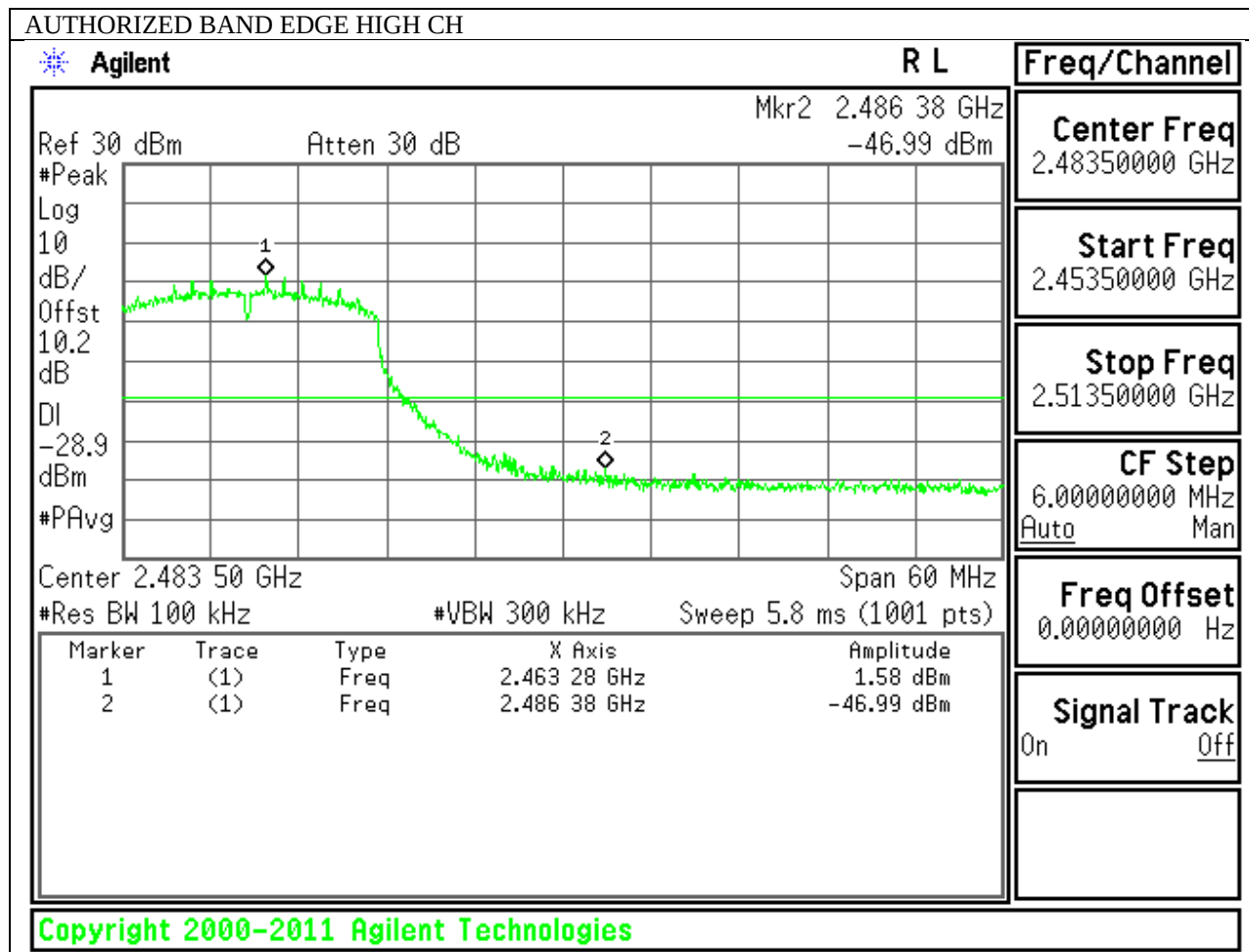
IN-BAND REFERENCE LEVEL



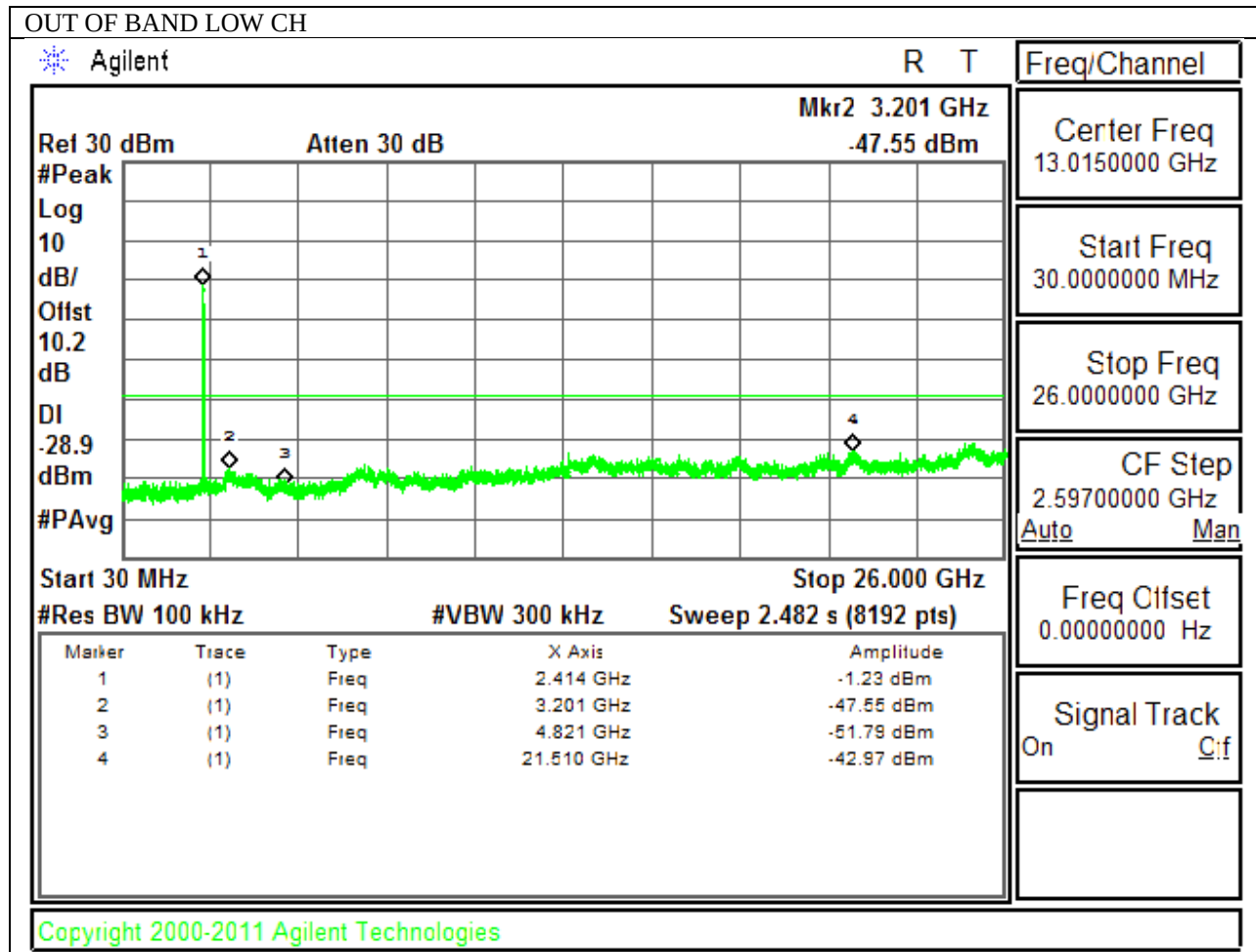
LOW CHANNEL BANDEDGE

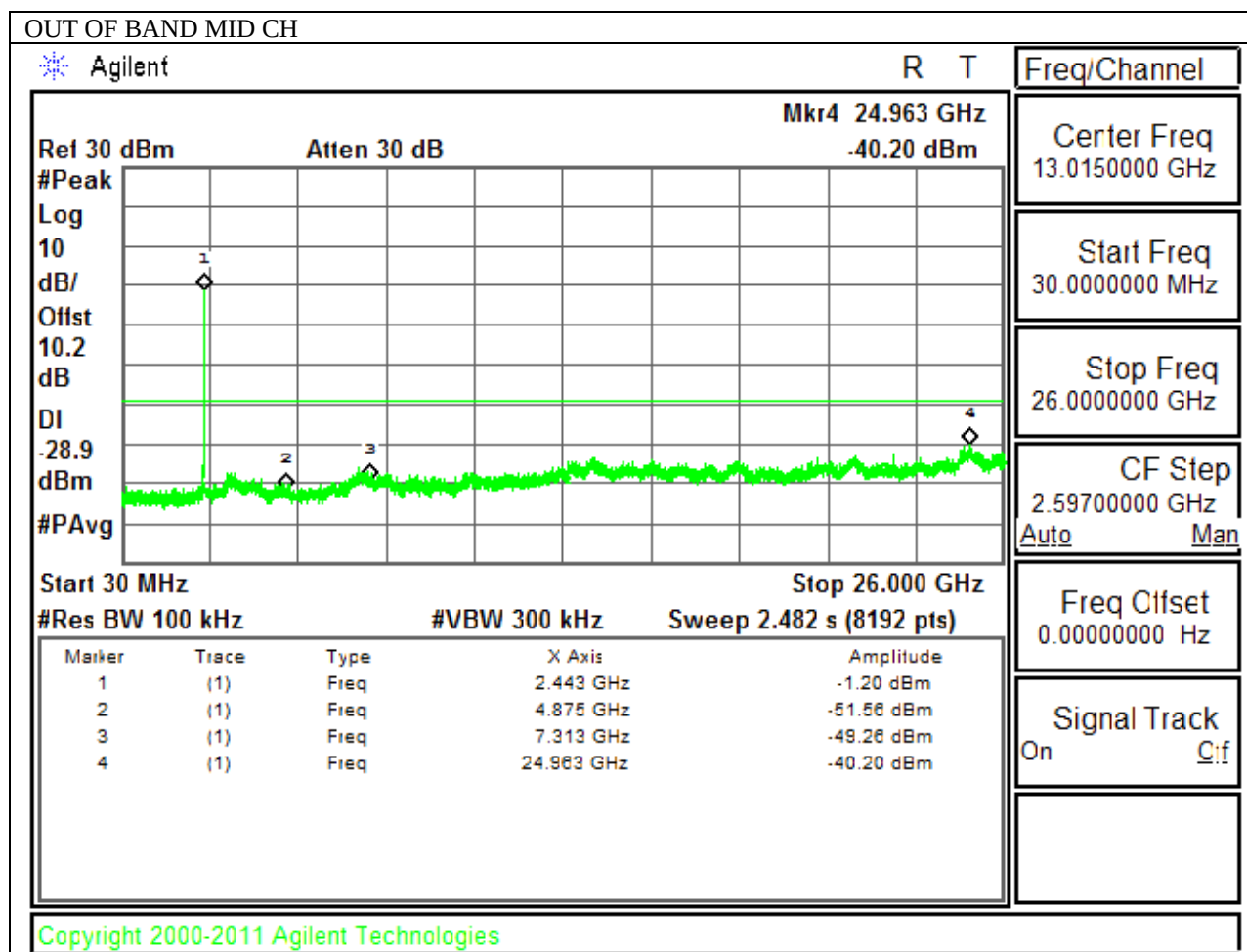


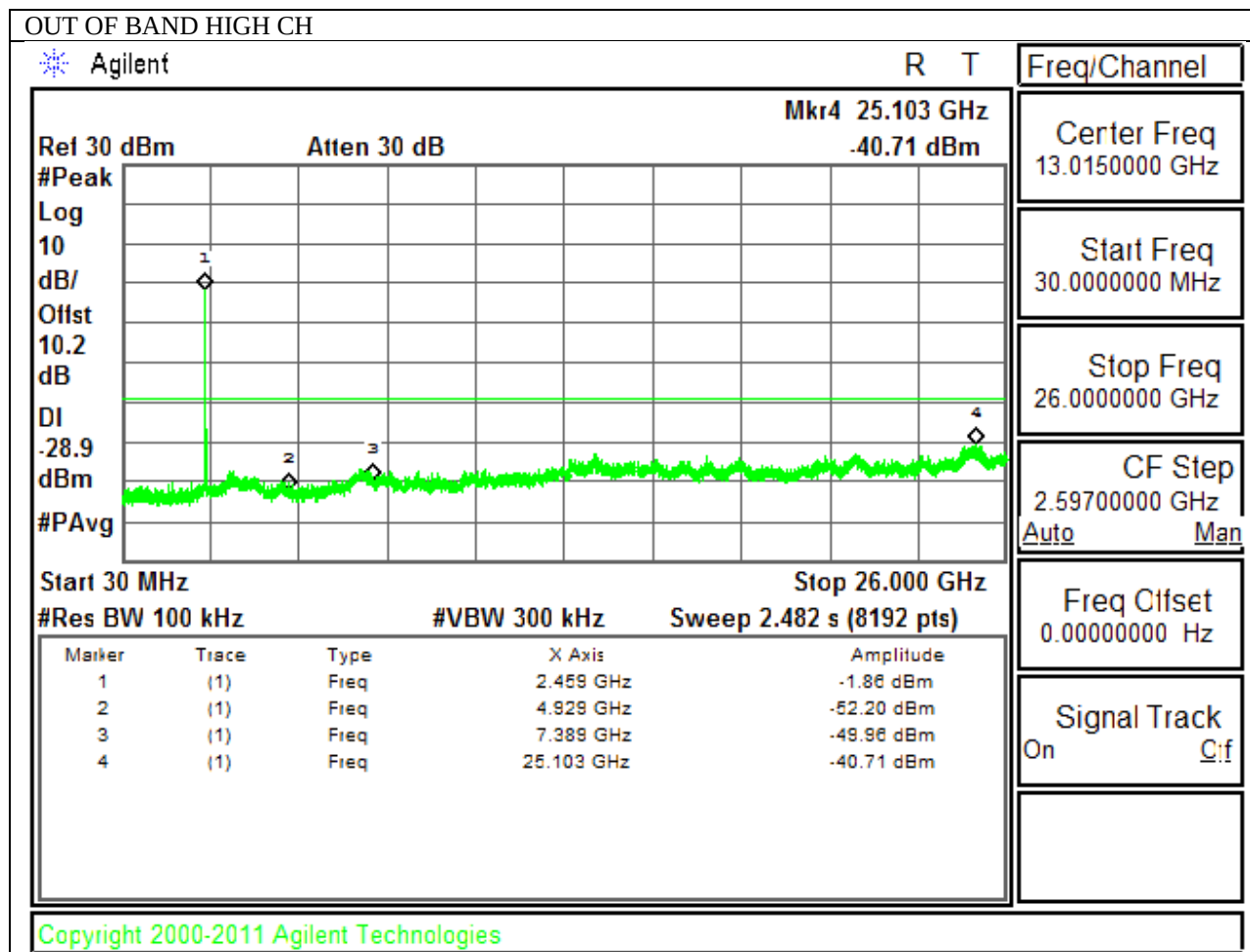
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS







10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit ($\mu\text{V/m}$) at 3 m	Field Strength Limit (dB $\mu\text{V/m}$) 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.

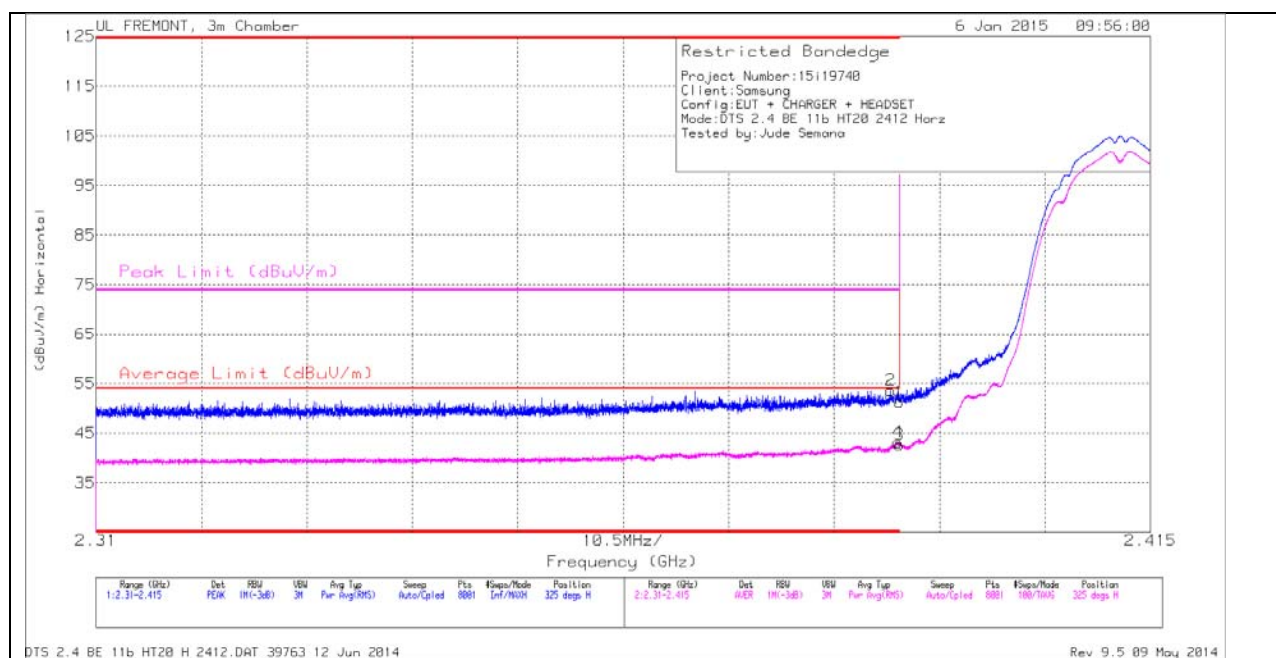
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

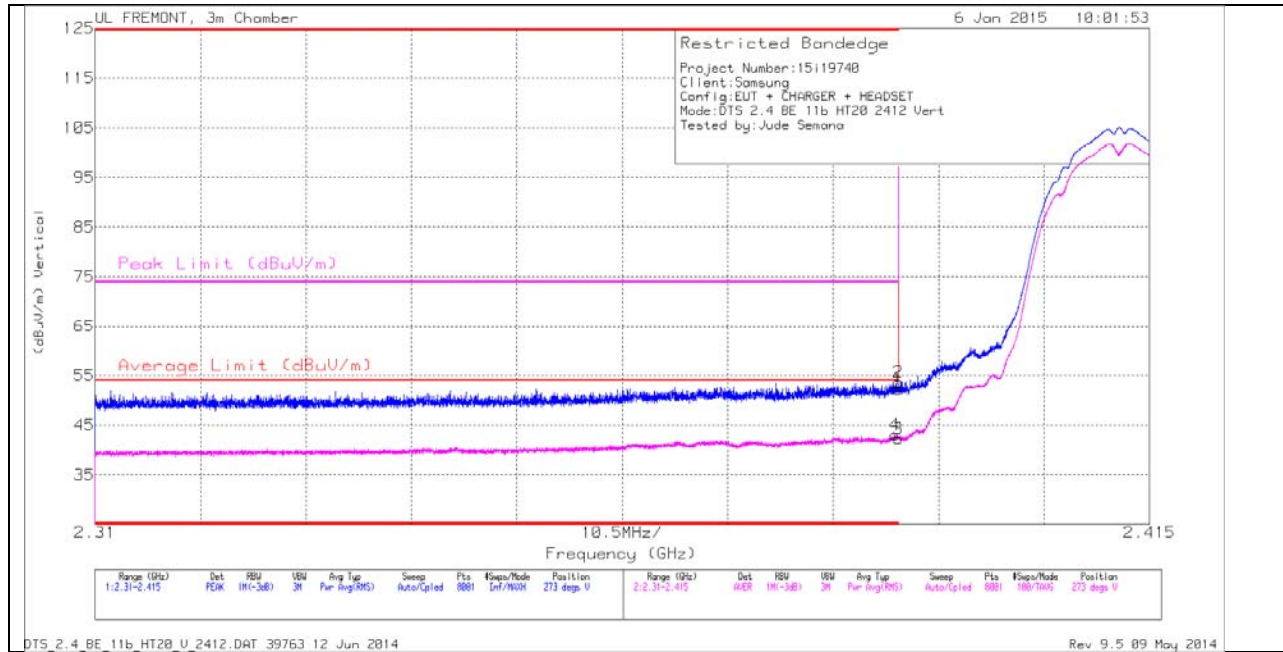
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.29	PK	32.1	-23.1	0	51.29	-	-	74	-22.71	325	373	H
2	* 2.389	44.6	PK	32.1	-23.1	0	53.6	-	-	74	-20.4	325	373	H
3	* 2.39	33.65	RMS	32.1	-23.1	0	42.65	54	-11.35	-	-	325	373	H
4	* 2.39	34.11	RMS	32.1	-23.1	0	43.11	54	-10.89	-	-	325	373	H

VERTICAL PEAK AND AVERAGE PLOT

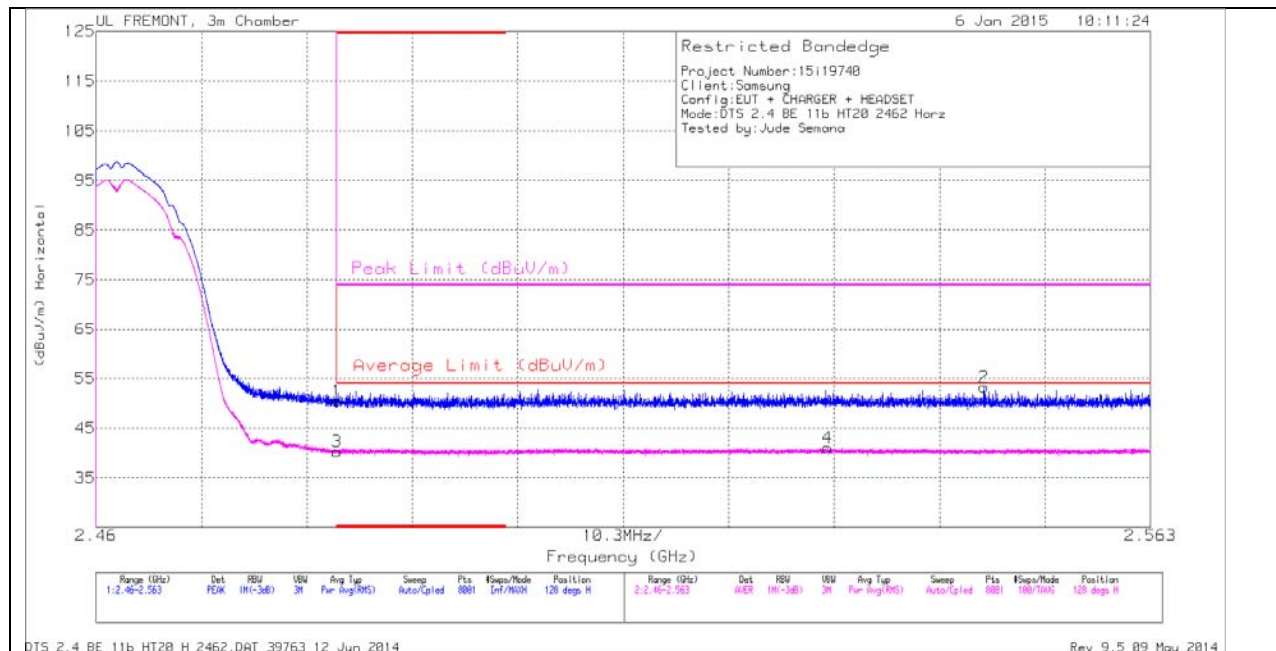


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cb/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.14	PK	32.1	-23.1	0	52.14	-	-	74	-21.86	273	381	V
2	* 2.39	44.61	PK	32.1	-23.1	0	53.61	-	-	74	-20.39	273	381	V
3	* 2.39	33.24	RMS	32.1	-23.1	0	42.24	54	-11.76	-	-	273	381	V
4	* 2.39	34	RMS	32.1	-23.1	0	43	54	-11	-	-	273	381	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

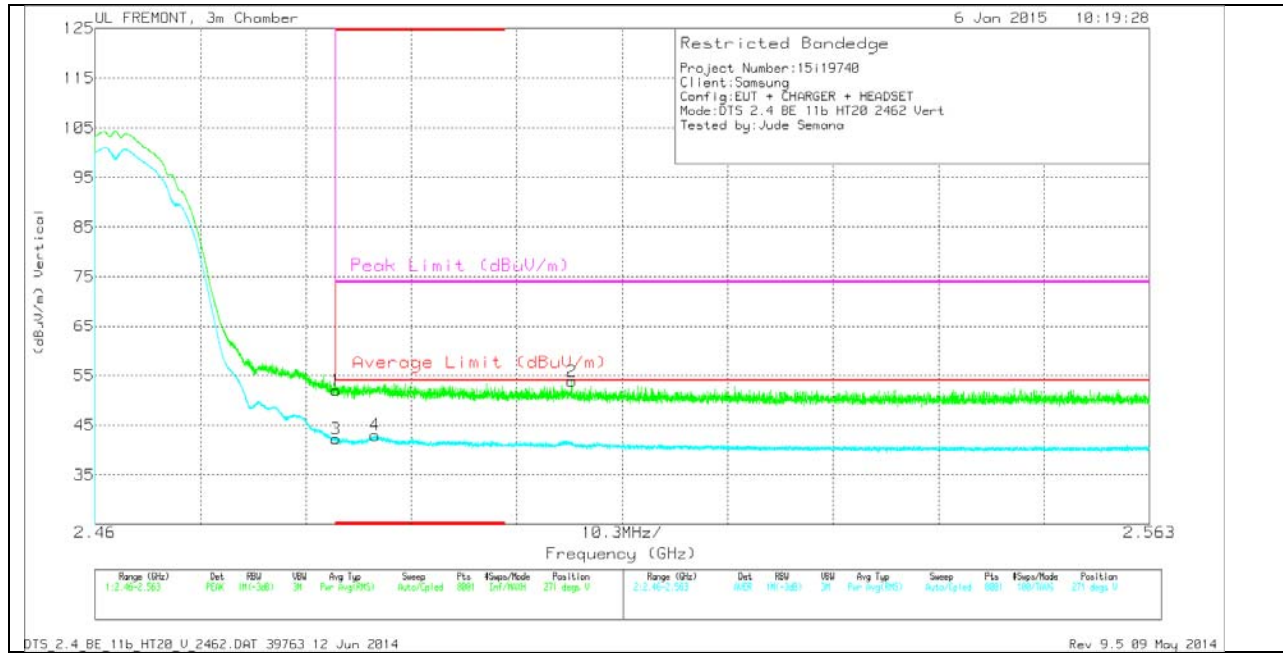
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (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	40.99	PK	32.3	-22.8	0	50.49	-	-	74	-23.51	128	397	H
3	* 2.484	30.79	RMS	32.3	-22.8	0	40.29	54	-13.71	-	-	128	397	H
4	2.531	31.35	RMS	32.4	-22.7	0	41.05	54	-12.95	-	-	128	397	H
2	2.547	43.56	PK	32.4	-22.7	0	53.26	-	-	74	-20.74	128	397	H

VERTICAL PEAK AND AVERAGE PLOT

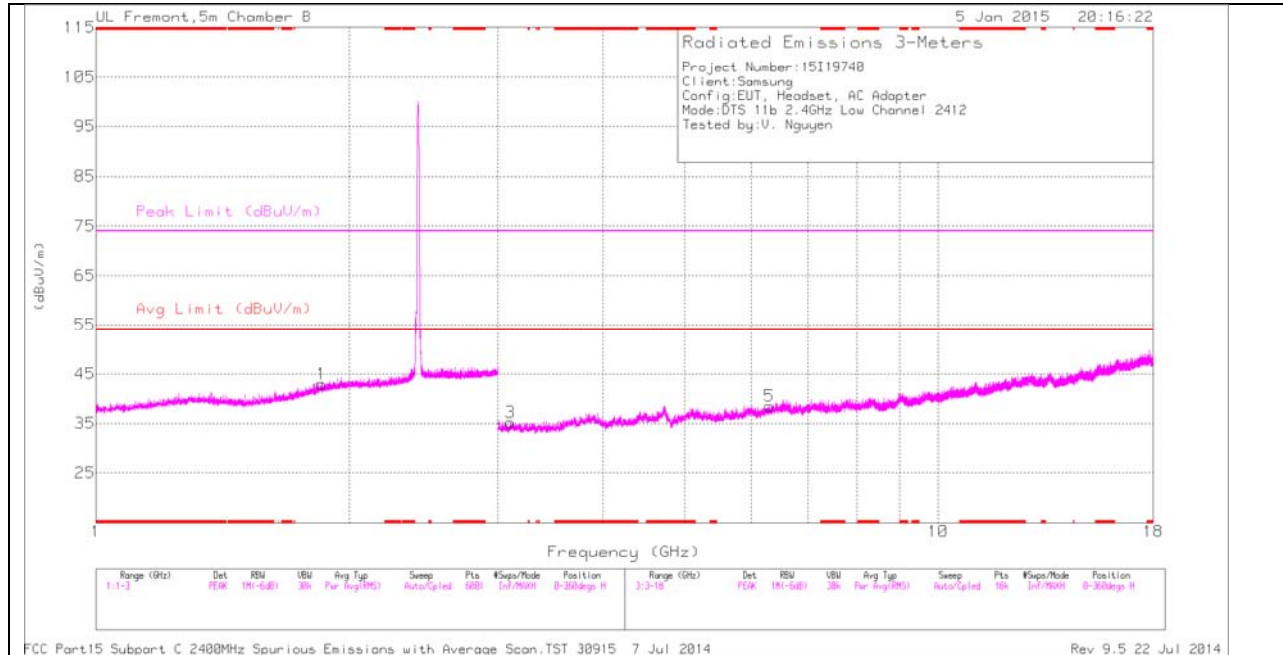


VERTICAL DATA

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	42.48	PK	32.3	-22.8	0	51.98	-	-	74	-22.02	271	371	V
3	* 2.484	32.73	RMS	32.3	-22.8	0	42.23	54	-11.77	-	-	271	371	V
4	* 2.487	33.46	RMS	32.3	-22.8	0	42.96	54	-11.04	-	-	271	371	V
2	2.507	44.33	PK	32.3	-22.8	0	53.83	-	-	74	-20.17	271	371	V

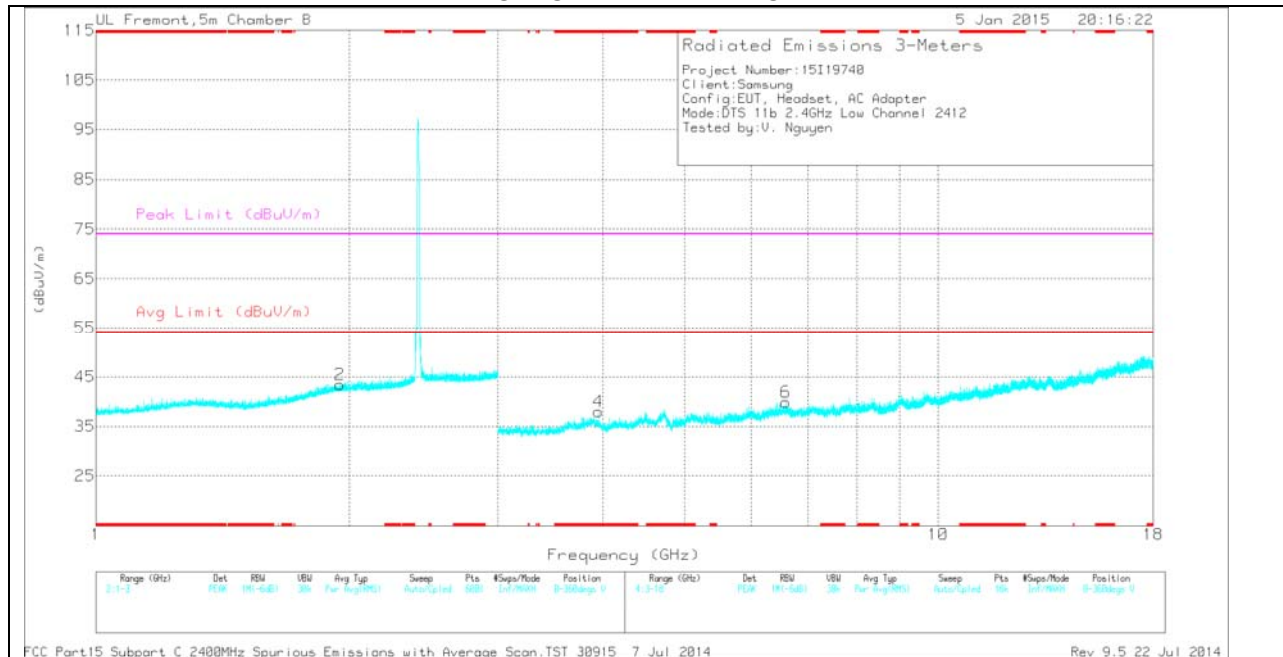
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.947	34.93	PK	33.7	-30.7	0	37.93	-	-	74	-36.07	0-360	101	V
1	1.853	35.87	PK	30.6	-23.5	0	42.97	-	-	-	-	0-360	101	H
2	1.949	35.58	PK	31.2	-23.3	0	43.48	-	-	-	-	0-360	101	V
3	3.106	34.05	PK	32.9	-31.7	0	35.25	-	-	-	-	0-360	200	H
5	6.306	31.84	PK	35.5	-28.8	0	38.54	-	-	-	-	0-360	200	H
6	6.597	32.28	PK	35.8	-28.2	0	39.88	-	-	-	-	0-360	200	V

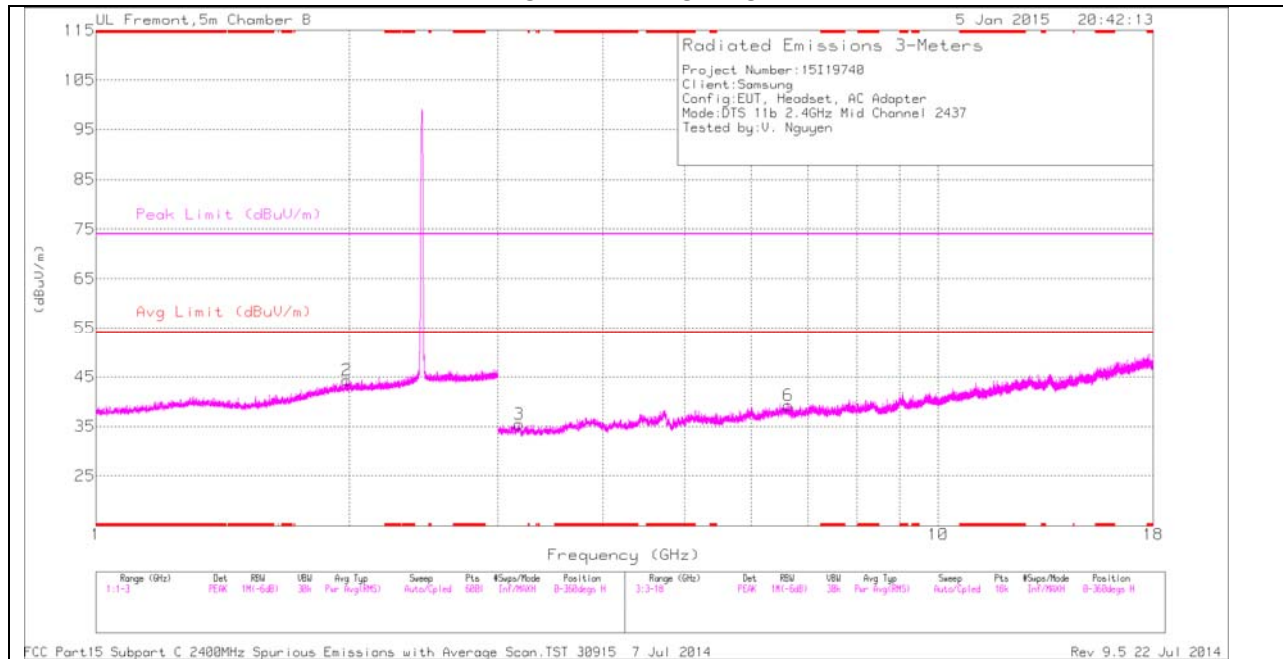
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.951	44.06	PK2	33.7	-30.7	0	47.06	-	-	74	-26.94	181	135	V
* 3.945	33.18	MAv1	33.7	-30.6	0	36.28	54	-17.72	-	-	181	135	V

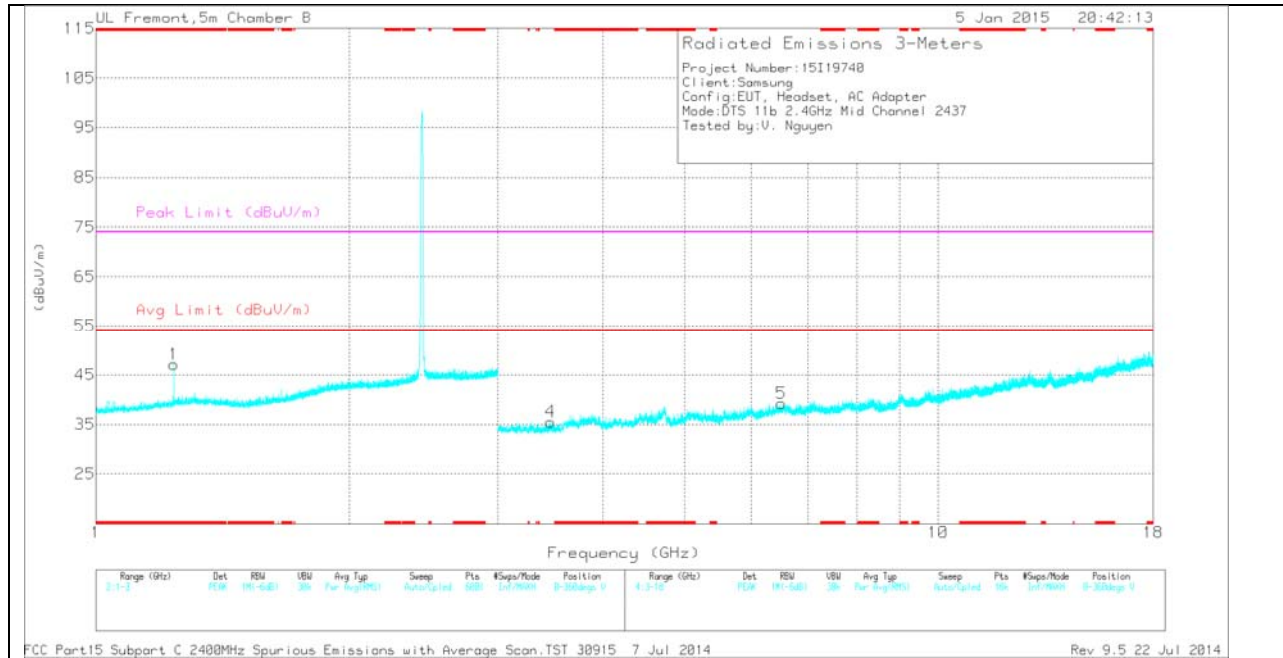
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MID CHANNEL HORIZONTAL



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

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.238	43.09	PK	28.4	-24.4	0	47.09	-	-	74	-26.91	0-360	199	V
2	1.987	36.3	PK	31.3	-23.3	0	44.3	-	-	-	-	0-360	199	H
3	3.182	33.7	PK	32.8	-31	0	35.5	-	-	-	-	0-360	101	H
4	3.466	33.71	PK	32.8	-31	0	35.51	-	-	-	-	0-360	200	V
5	6.511	32.29	PK	35.7	-28.7	0	39.29	-	-	-	-	0-360	101	V
6	6.637	31.9	PK	35.7	-28.3	0	39.3	-	-	-	-	0-360	101	H

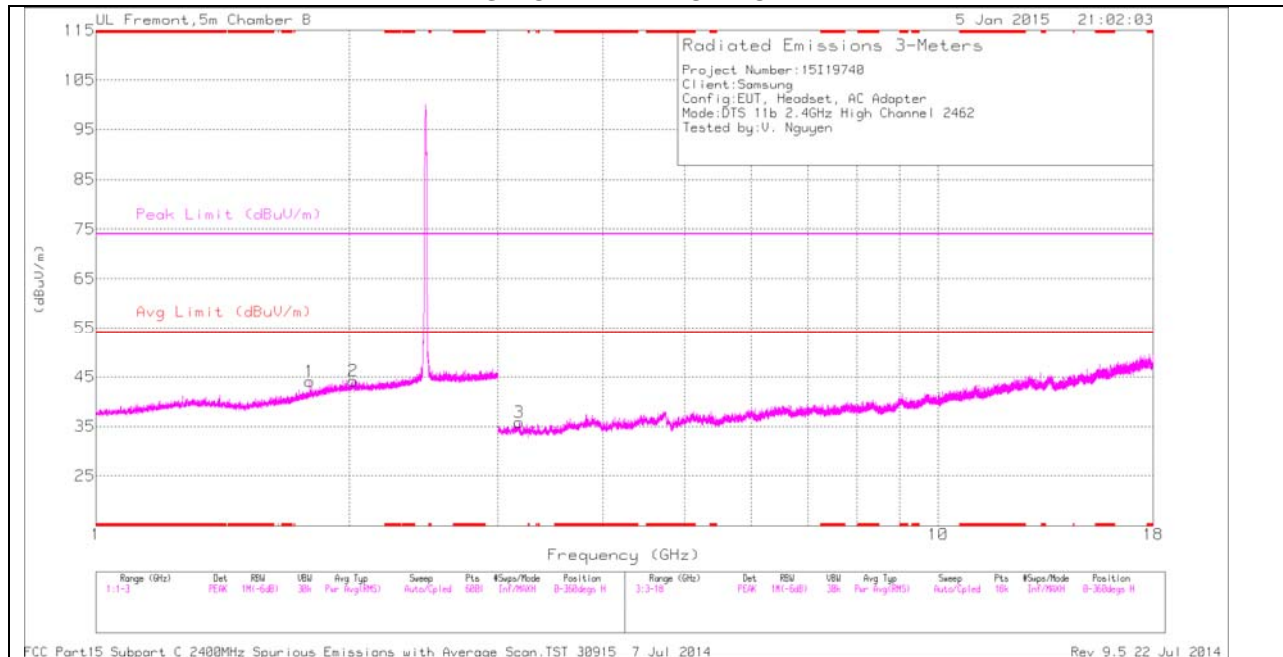
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.238	43.7	PK2	28.5	-24.4	0	47.8	-	-	74	-26.2	221	315	V
* 1.239	32.09	MAv1	28.5	-24.4	0	36.19	54	-17.81	-	-	221	315	V

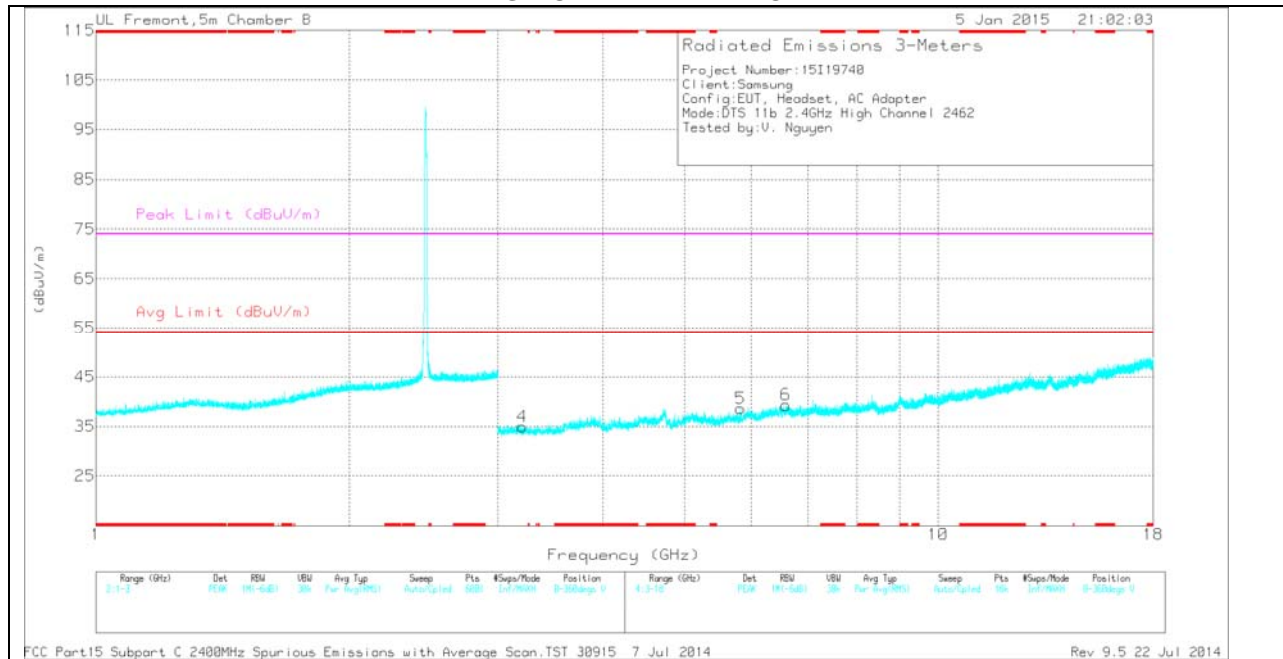
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HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.795	37.47	PK	30.1	-23.5	0	44.07	-	-	-	-	0-360	199	H
2	2.021	36.25	PK	31.3	-23.3	0	44.25	-	-	-	-	0-360	101	H
3	3.179	34.05	PK	32.8	-31	0	35.85	-	-	-	-	0-360	199	H
4	3.208	33.31	PK	32.8	-31.2	0	34.91	-	-	-	-	0-360	101	V
5	5.821	34.07	PK	34.7	-30.1	0	38.67	-	-	-	-	0-360	101	V
6	6.597	31.72	PK	35.8	-28.2	0	39.32	-	-	-	-	0-360	199	V

PK - Peak detector

RADIATED EMISSIONS

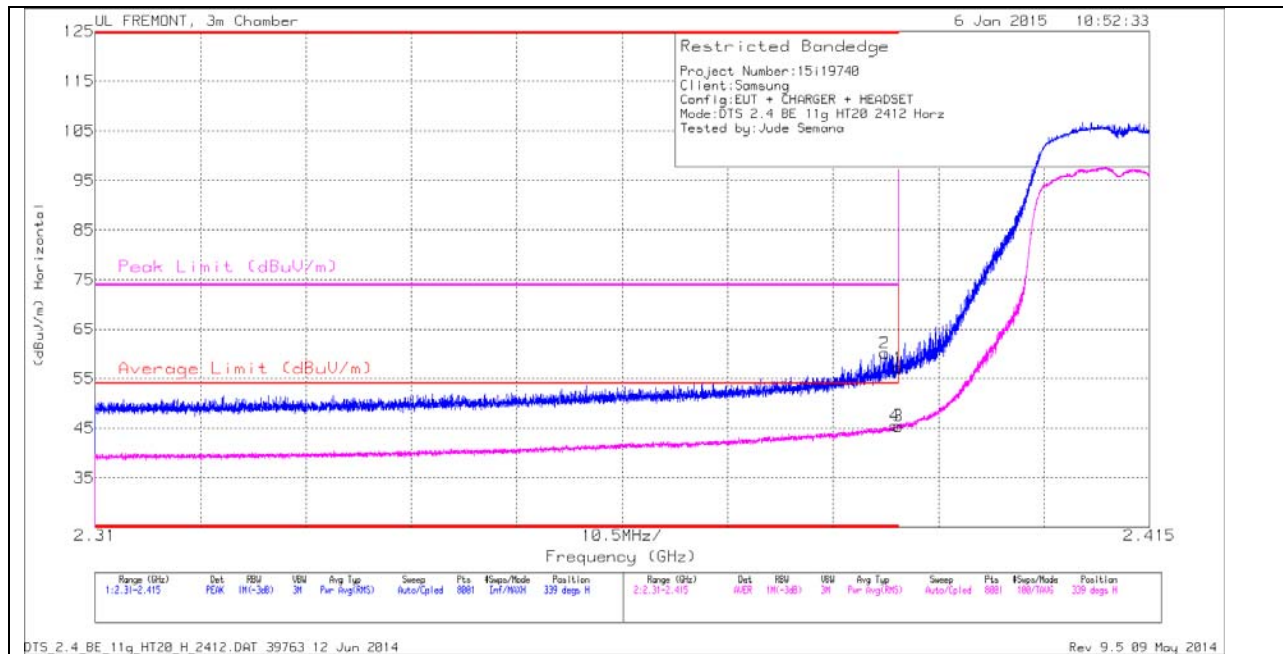
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.793	31.45	MAV1	30.1	-23.5	0	38.05	-	-	-	-	172	369	H
1.797	43.56	PK2	30.1	-23.5	0	50.16	-	-	-	-	172	369	H

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

RESTRICTED BANDEDGE (LOW CHANNEL)

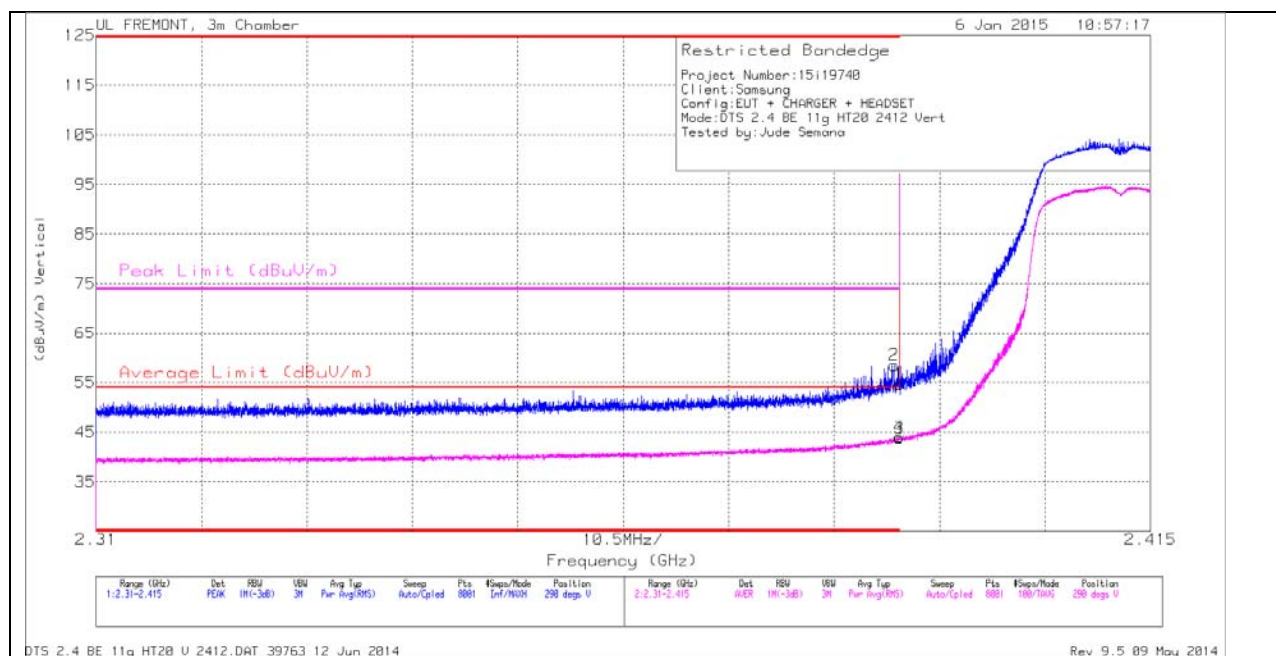
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/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	48.14	PK	32.1	-23.1	0	57.14	-	-	74	-16.86	339	318	H
2	* 2.389	51.11	PK	32.1	-23.1	0	60.11	-	-	74	-13.89	339	318	H
3	* 2.39	36.4	RMS	32.1	-23.1	0.31	45.71	54	-8.29	-	-	339	318	H
4	* 2.39	36.5	RMS	32.1	-23.1	0.31	45.81	54	-8.19	-	-	339	318	H

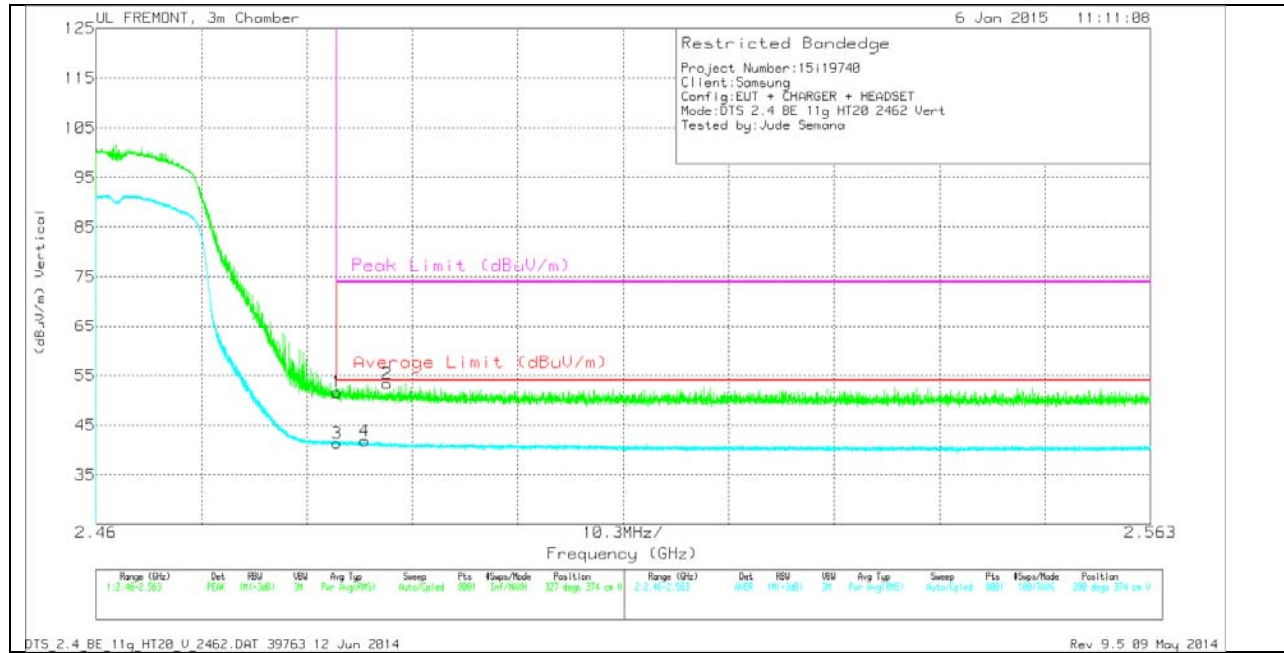
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cb/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	45.66	PK	32.1	-23.1	0	54.66	-	-	74	-19.34	290	322	V
2	* 2.389	49.46	PK	32.1	-23.1	0	58.46	-	-	74	-15.54	290	322	V
3	* 2.39	34.83	RMS	32.1	-23.1	0.31	44.14	54	-9.86	-	-	290	322	V
4	* 2.39	35	RMS	32.1	-23.1	0.31	44.31	54	-9.69	-	-	290	322	V

VERTICAL PEAK AND AVERAGE PLOT

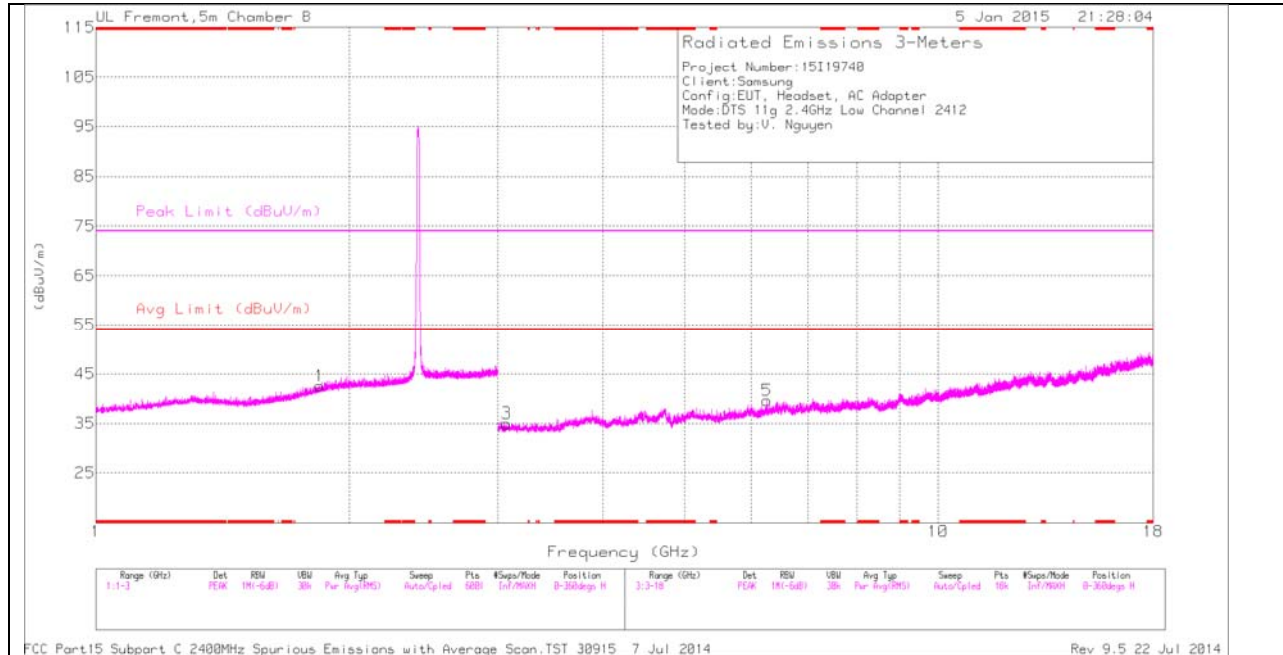


VERTICAL DATA

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	42.13	PK	32.3	-22.8	0	51.63	-	-	74	-22.37	280	374	V
3	2.484	31.86	RMS	32.3	-22.8	0.31	41.67	54	-12.33	-	-	280	374	V
4	2.486	32.36	RMS	32.3	-22.8	0.31	42.17	54	-11.83	-	-	280	374	V
2	2.488	43.81	PK	32.3	-22.8	0	53.31	-	-	74	-20.69	280	374	V

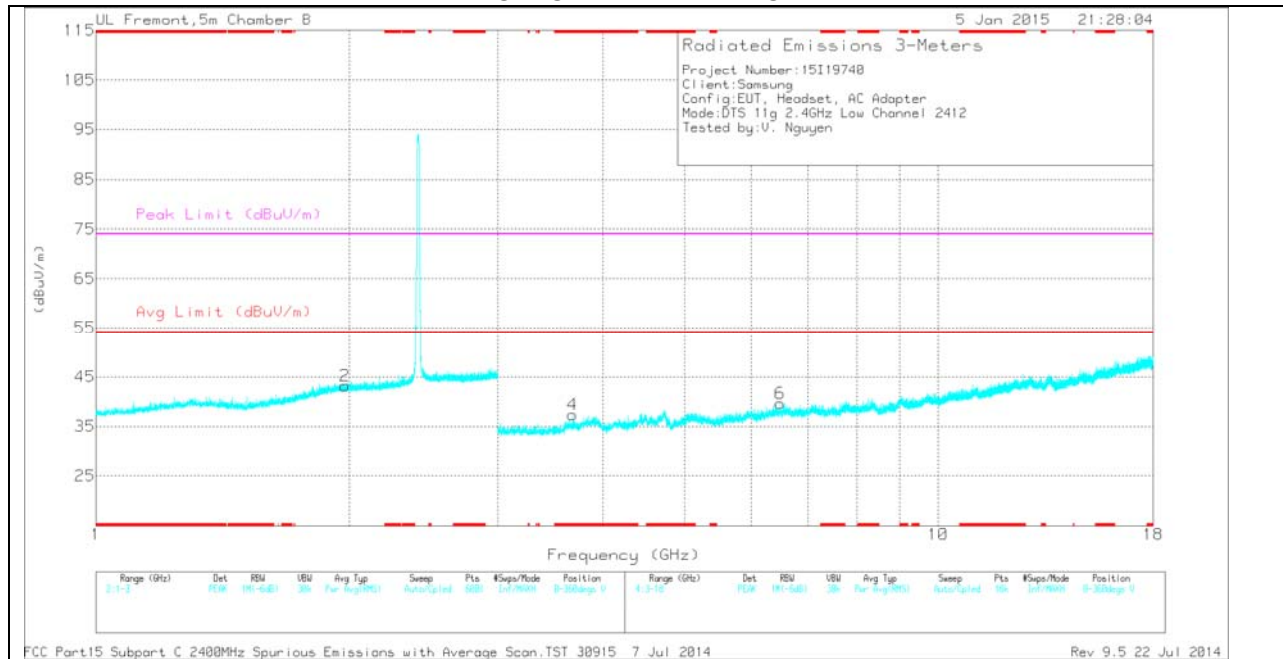
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.68	35.3	PK	33.3	-31.2	0	37.4	-	-	74	-36.6	0-360	199	V
1	1.843	35.46	PK	30.6	-23.5	0	42.56	-	-	-	-	0-360	101	H
2	1.976	35.23	PK	31.3	-23.3	0	43.23	-	-	-	-	0-360	199	V
3	3.074	34	PK	32.8	-31.8	0	35	-	-	-	-	0-360	199	H
5	6.265	32.8	PK	35.5	-28.7	0	39.6	-	-	-	-	0-360	199	H
6	6.494	32.77	PK	35.7	-28.8	0	39.67	-	-	-	-	0-360	101	V

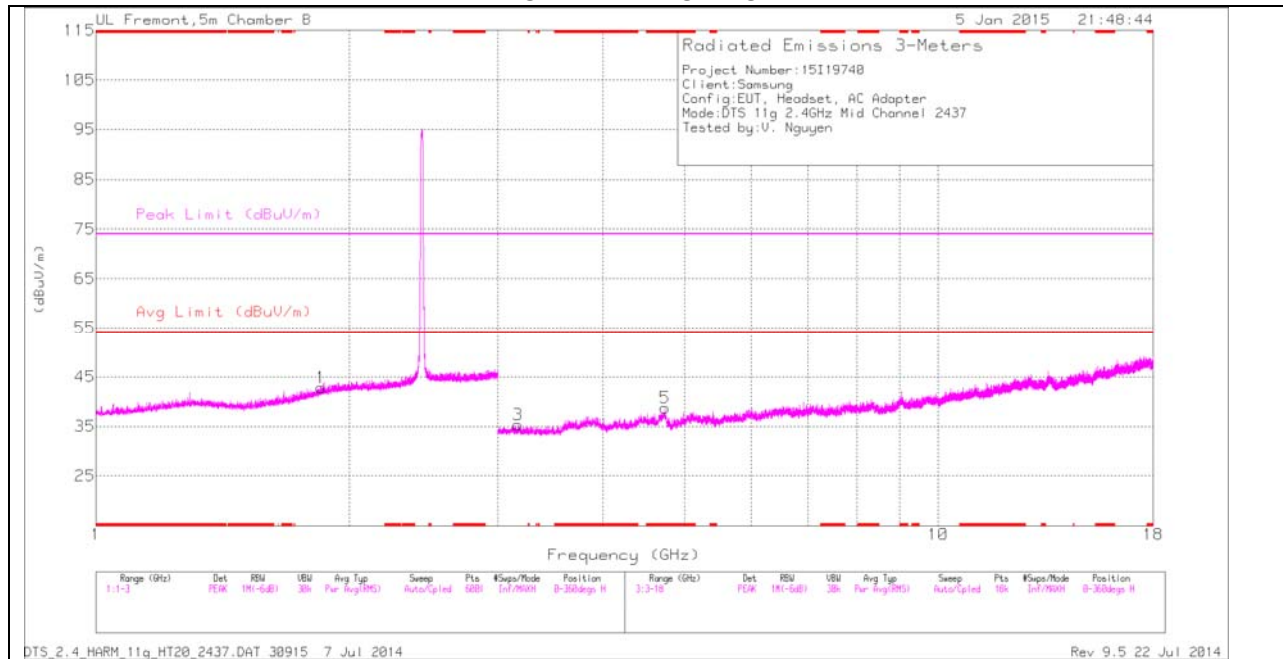
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.677	45.88	PK2	33.3	-31.2	0	47.98	-	-	74	-26.02	167	348	V
* 3.685	33.83	MAV1	33.3	-31.3	.31	36.14	54	-17.86	-	-	167	348	V

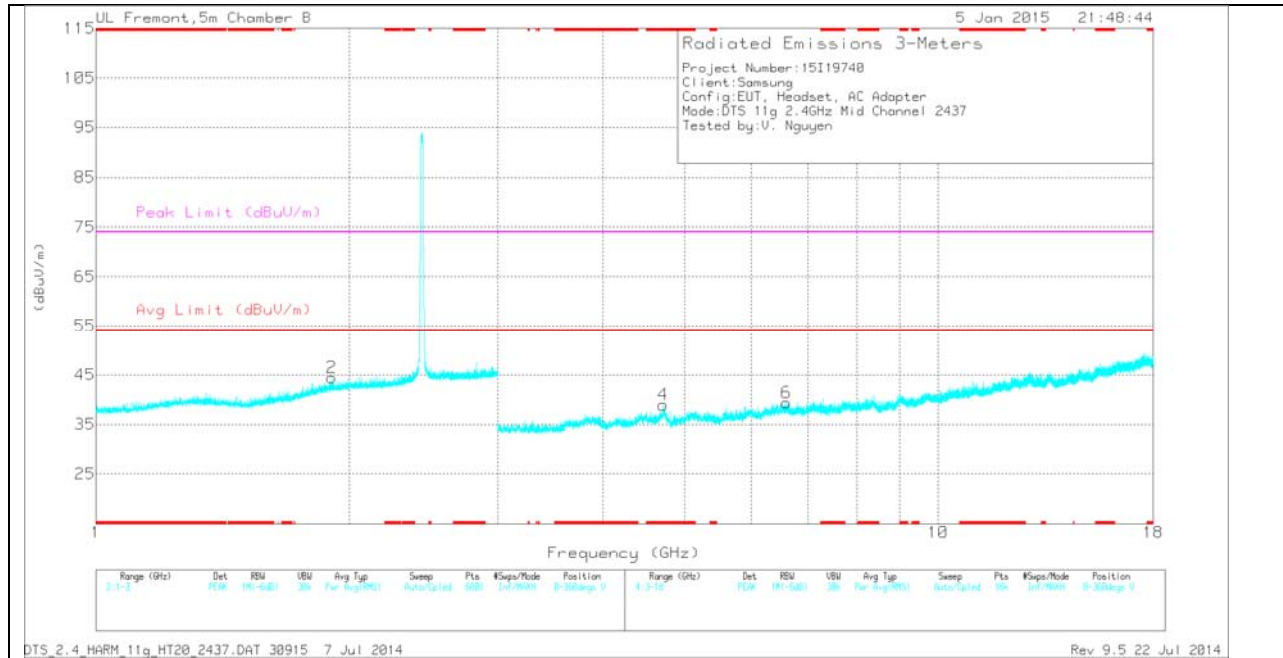
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MID CHANNEL HORIZONTAL



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

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 4.741	33.75	PK	34.2	-29.2	0	38.75	-	-	74	-35.25	0-360	199	H
4	* 4.718	34.14	PK	34.2	-29.4	0	38.94	-	-	74	-35.06	0-360	199	V
1	1.85	35.59	PK	30.6	-23.4	0	42.79	-	-	-	-	0-360	101	H
2	1.906	36.73	PK	31.1	-23.4	0	44.43	-	-	-	-	0-360	199	V
3	3.167	33.64	PK	32.8	-31.1	0	35.34	-	-	-	-	0-360	199	H
6	6.606	31.8	PK	35.8	-28.2	0	39.4	-	-	-	-	0-360	199	V

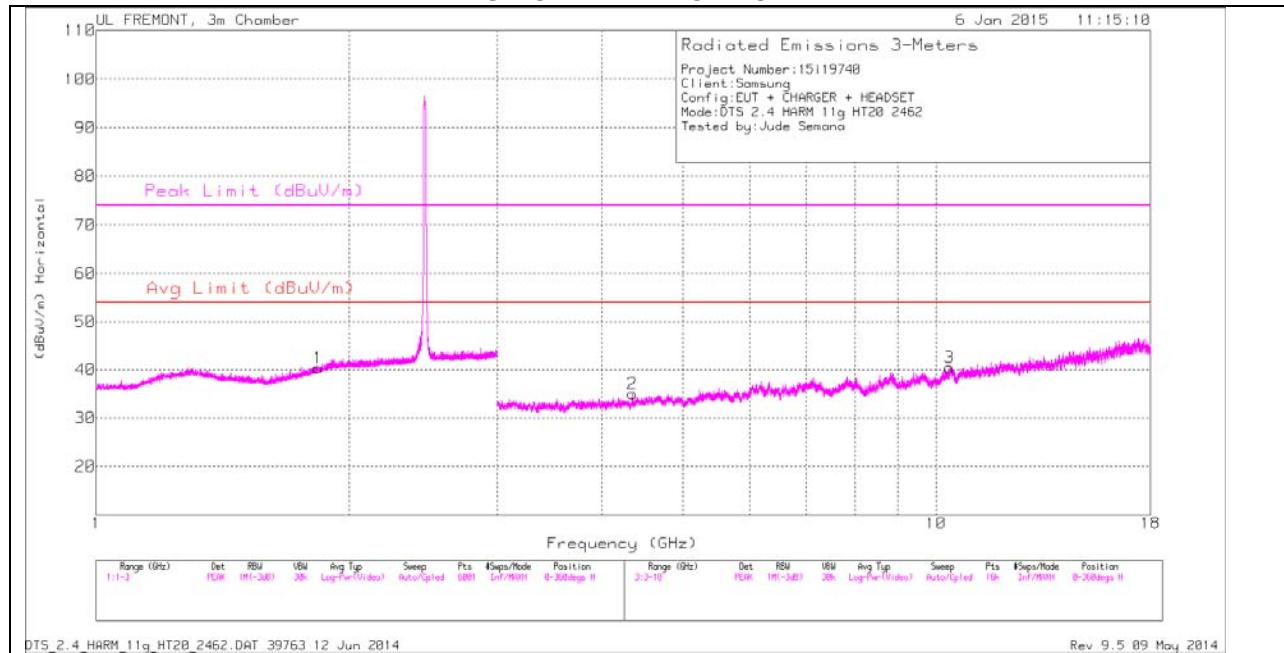
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.745	27.33	MAv1	34.2	-29.2	.31	32.64	54	-21.36	-	-	68	344	V
* 4.737	38.81	PK2	34.2	-29.2	0	43.81	-	-	74	-30.19			V
* 4.74	26.37	MAv1	34.2	-29.2	.31	31.68	54	-22.32		-	72	289	H
* 4.74	42.9	PK2	34.2	-29.2	0	47.90	-	-	74	-26.10			H

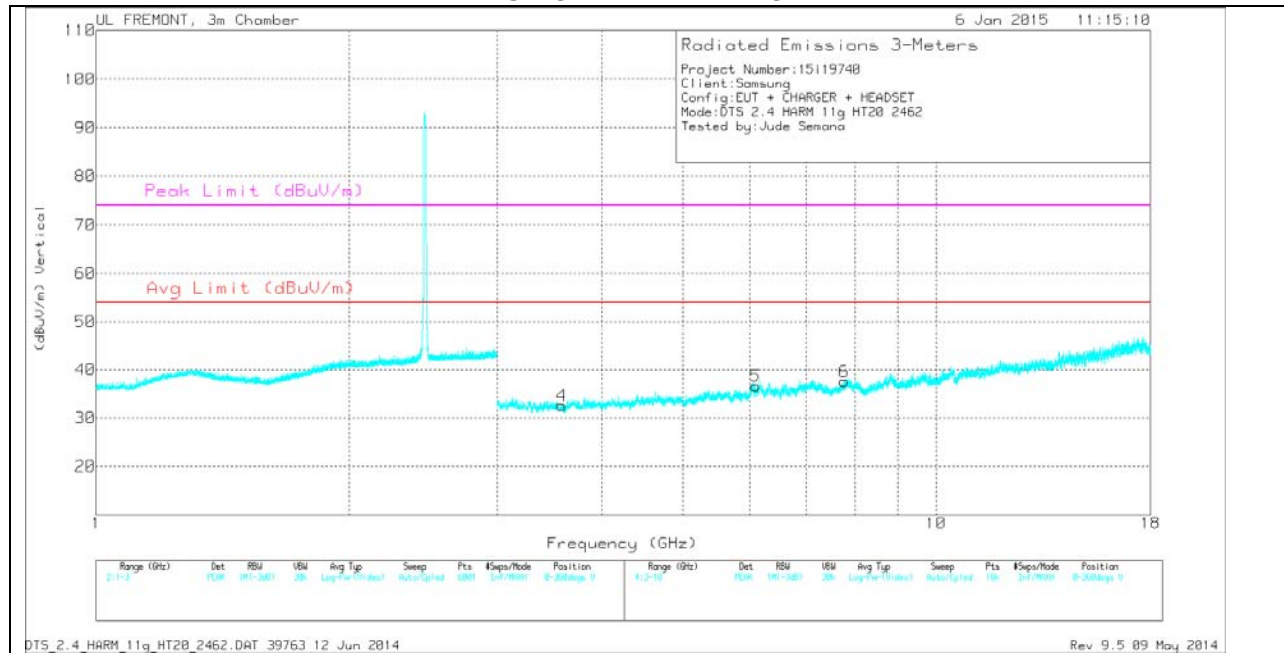
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HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

TRACE MARKERS

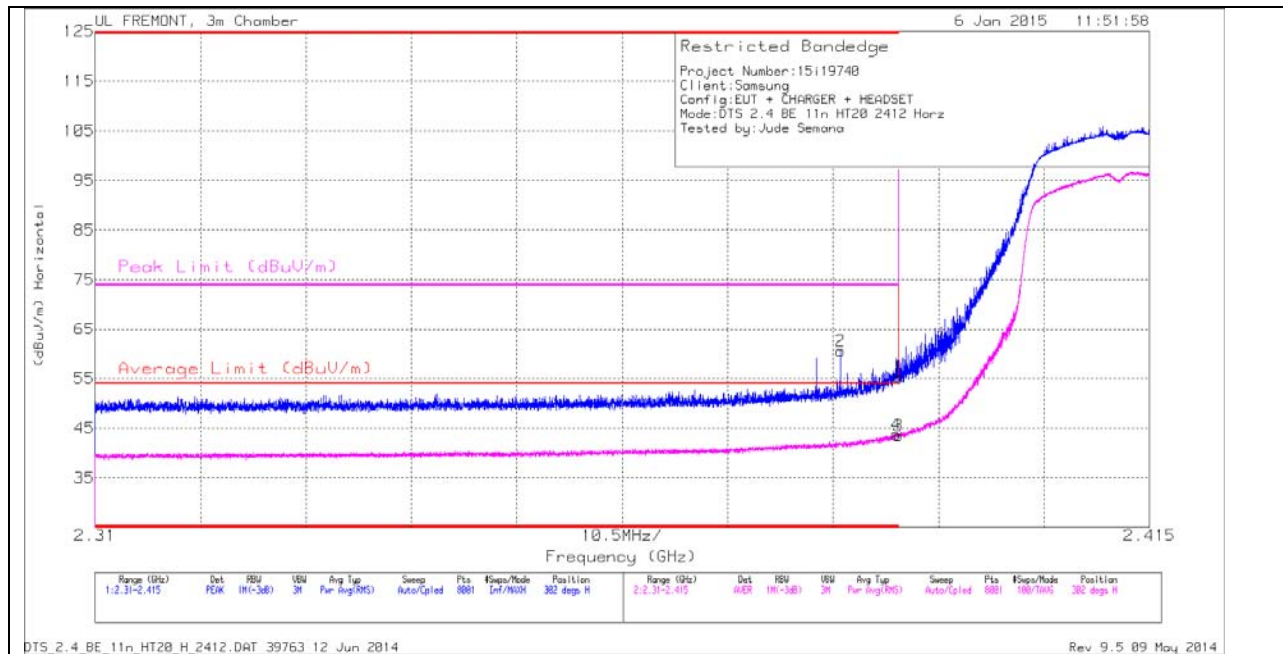
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.837	32.99	PK	30.6	-23.3	0	40.29	-	-	-	-	0-360	200	H
4	3.585	31.17	PK	33	-31.6	0	32.57	-	-	74	-41.43	0-360	100	V
2	4.351	31.63	PK	33.6	-30.2	0	35.03	-	-	74	-38.97	0-360	200	H
5	6.098	30.01	PK	35.3	-28.7	0	36.61	-	-	-	-	0-360	200	V
6	7.773	30.73	PK	35.8	-29	0	37.53	-	-	-	-	0-360	100	V
3	10.376	28.85	PK	37.3	-25.7	0	40.45	-	-	-	-	0-360	100	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)

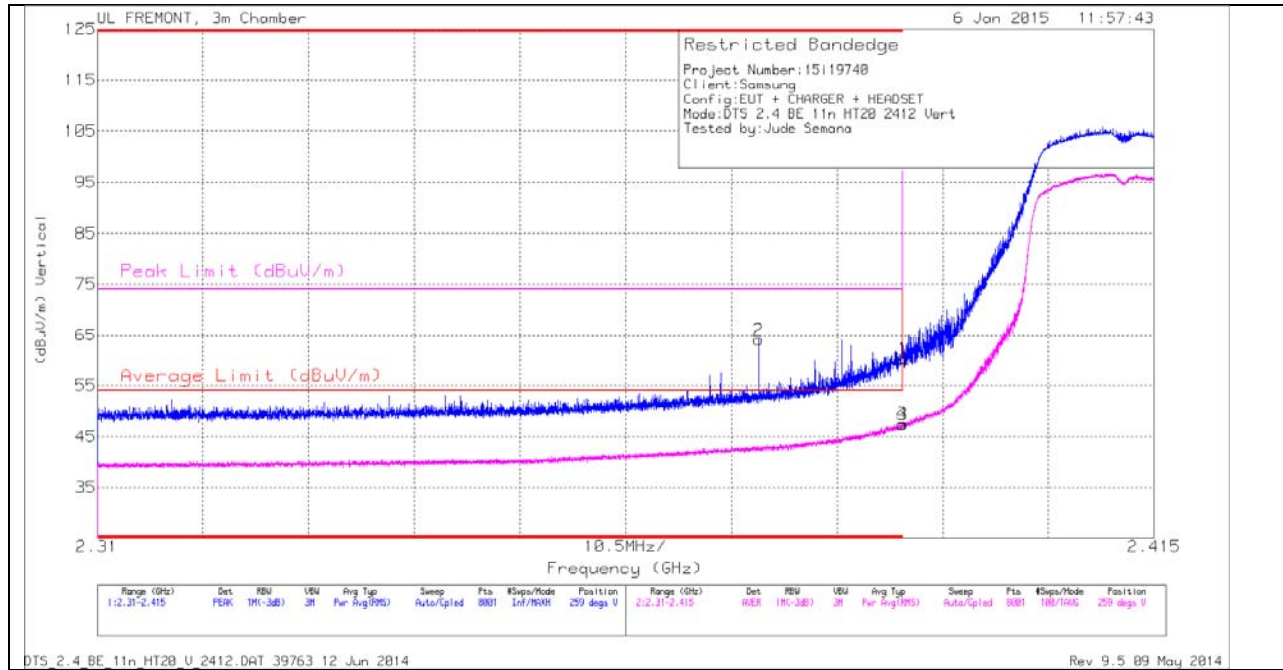
HORIZONTAL PEAK AND AVERAGE PLOT



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	46.23	PK	32.1	-23.1	0	55.23	-	-	74	-18.77	302	375	H
2	* 2.384	51.54	PK	32.1	-23.1	0	60.54	-	-	74	-13.46	302	375	H
3	* 2.39	34.53	RMS	32.1	-23.1	0.32	43.85	54	-10.15	-	-	302	375	H
4	* 2.39	34.7	RMS	32.1	-23.1	0.32	44.02	54	-9.98	-	-	302	375	H

VERTICAL PEAK AND AVERAGE PLOT

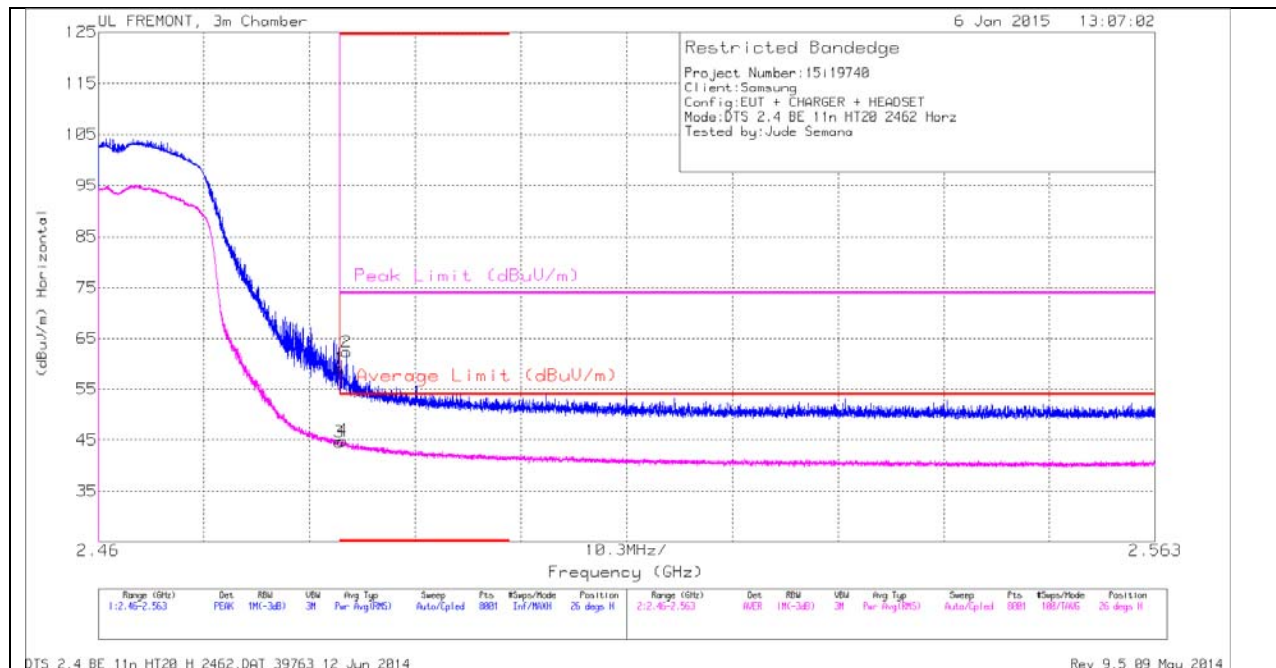


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	51.27	PK	32.1	-23.1	0	60.27	-	-	74	-13.73	259	390	V
2	* 2.376	55.14	PK	32	-23.1	0	64.04	-	-	74	-9.96	259	390	V
3	* 2.39	38.39	RMS	32.1	-23.1	0.32	47.71	54	-6.29	-	-	259	390	V
4	* 2.39	38.49	RMS	32.1	-23.1	0.32	47.81	54	-6.19	-	-	259	390	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

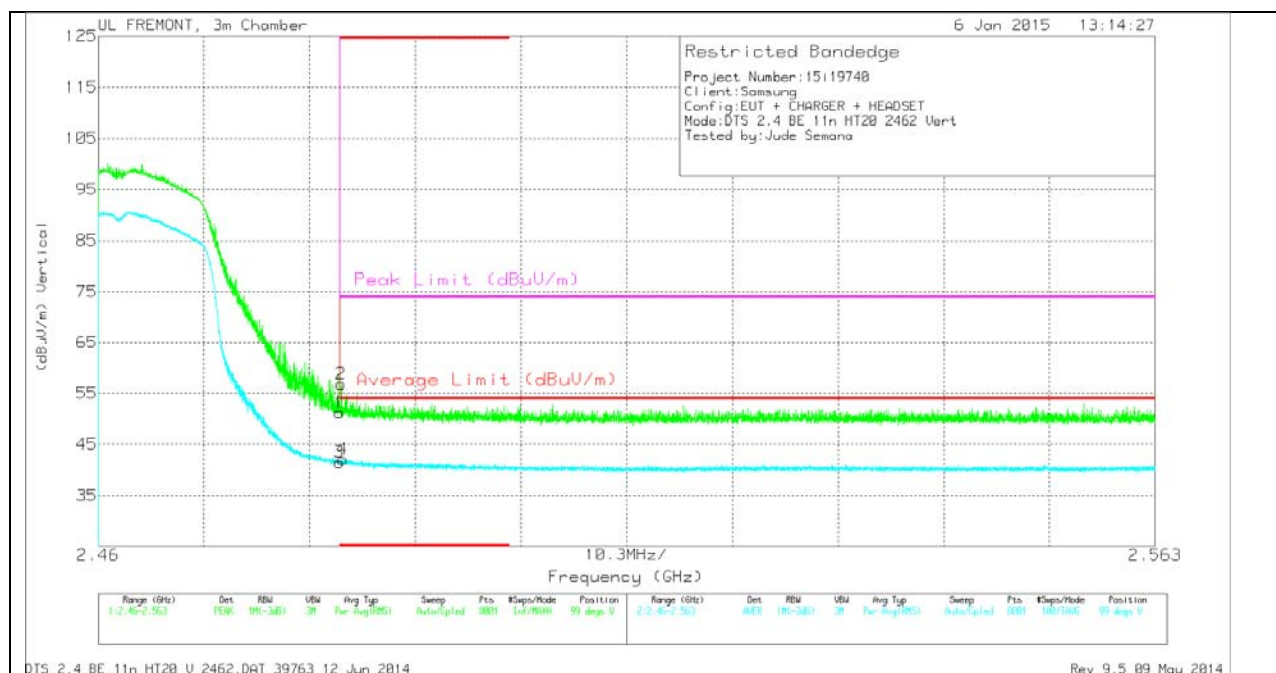
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (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	49.53	PK	32.3	-22.8	0	59.03	-	-	74	-14.97	26	103	H
2	* 2.484	52.82	PK	32.3	-22.8	0	62.32	-	-	74	-11.68	26	103	H
3	* 2.484	35.11	RMS	32.3	-22.8	0.32	44.93	54	-9.07	-	-	26	103	H
4	* 2.484	35.36	RMS	32.3	-22.8	0.32	45.18	54	-8.82	-	-	26	103	H

VERTICAL PEAK AND AVERAGE PLOT

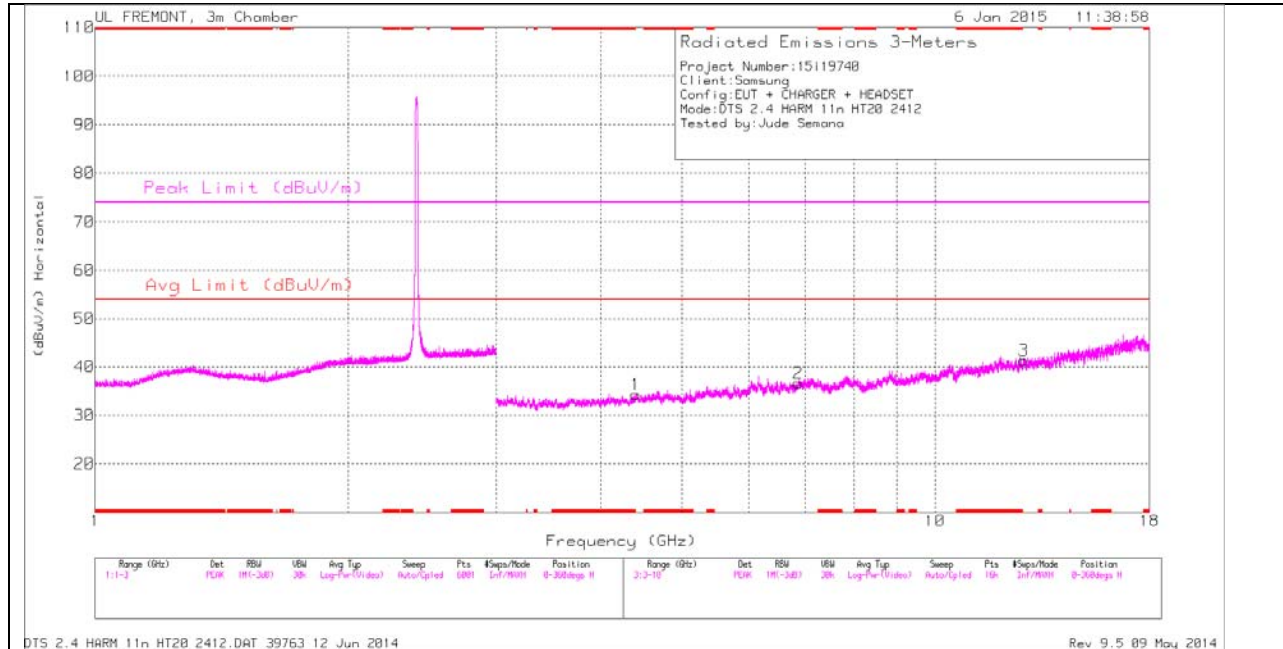


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.72	PK	32.3	-22.8	0	51.22	-	-	74	-22.78	99	122	V
2	* 2.484	47.3	PK	32.3	-22.8	0	56.8	-	-	74	-17.2	99	122	V
3	* 2.484	31.96	RMS	32.3	-22.8	0.32	41.78	54	-12.22	-	-	99	122	V
4	* 2.484	32.59	RMS	32.3	-22.8	0.32	42.41	54	-11.59	-	-	99	122	V

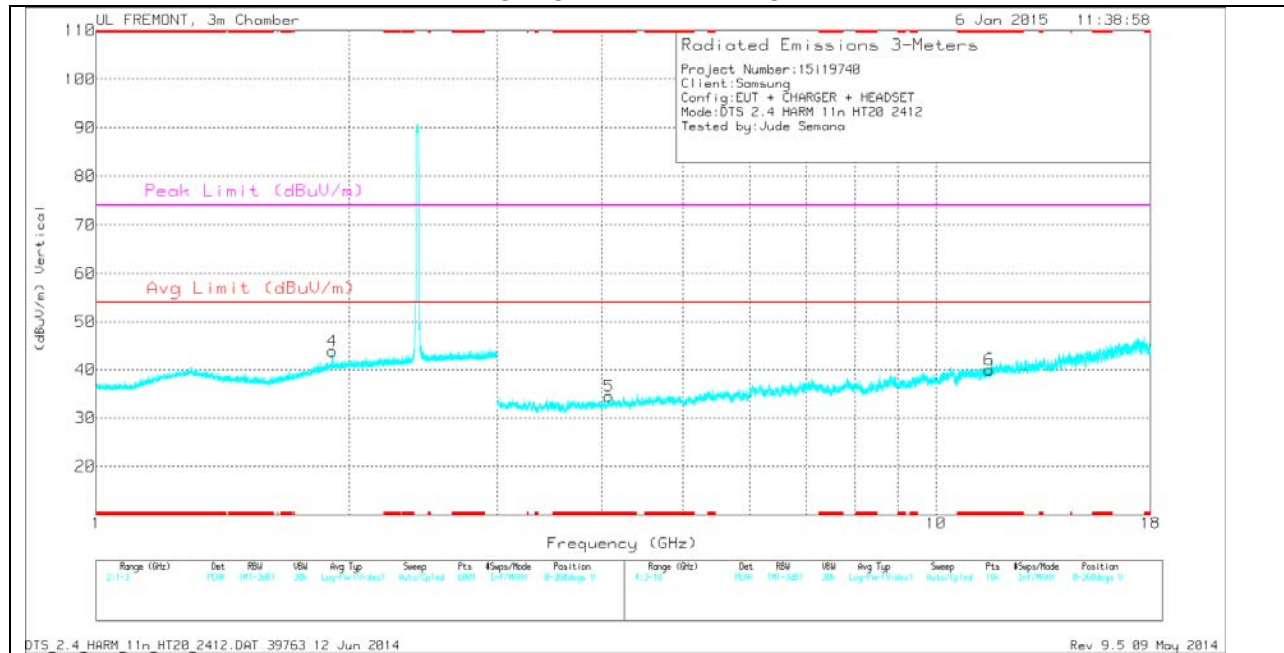
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

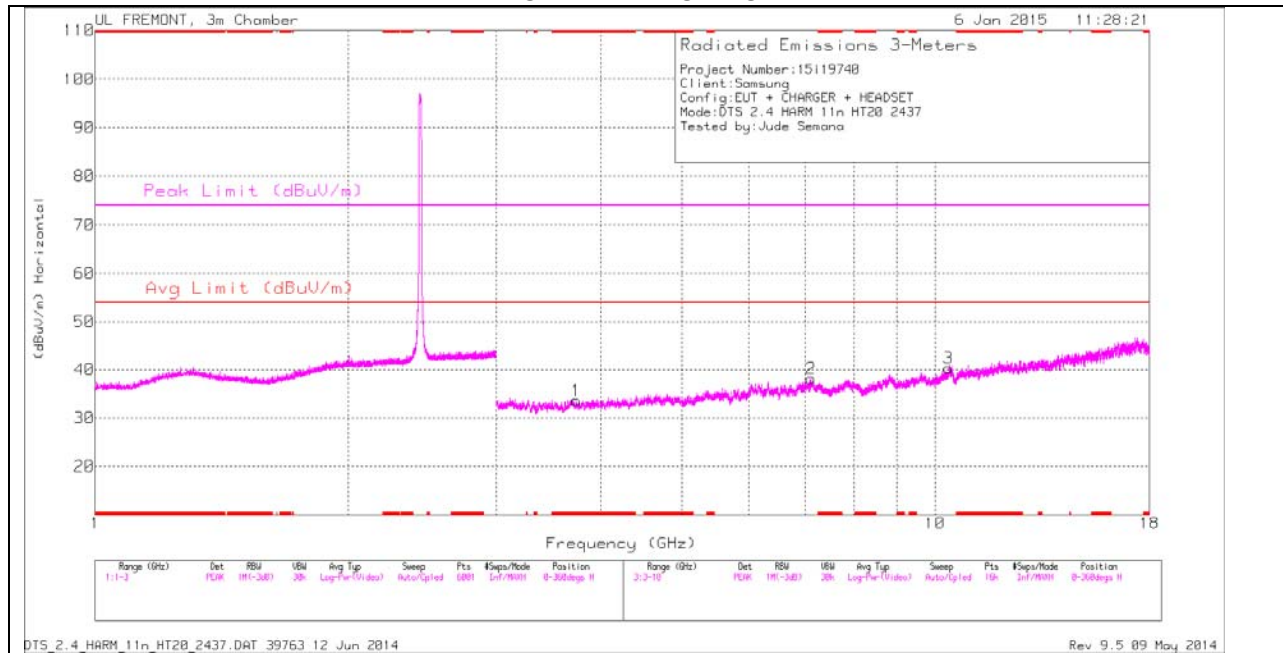
LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 4.078	32.58	PK	33.5	-31.6	0	34.48	-	-	74	-39.52	0-360	200	V
6	* 11.579	27.54	PK	38.4	-26	0	39.94	-	-	74	-34.06	0-360	200	V
4	1.911	35.7	PK	31.3	-23.2	0	43.8	-	-	-	-	0-360	200	V
1	4.401	30.58	PK	33.7	-30	0	34.28	-	-	-	-	0-360	200	H
2	6.873	29.51	PK	35.6	-28.5	0	36.61	-	-	-	-	0-360	200	H
3	12.741	28.59	PK	39.2	-26.5	0	41.29	-	-	-	-	0-360	200	H

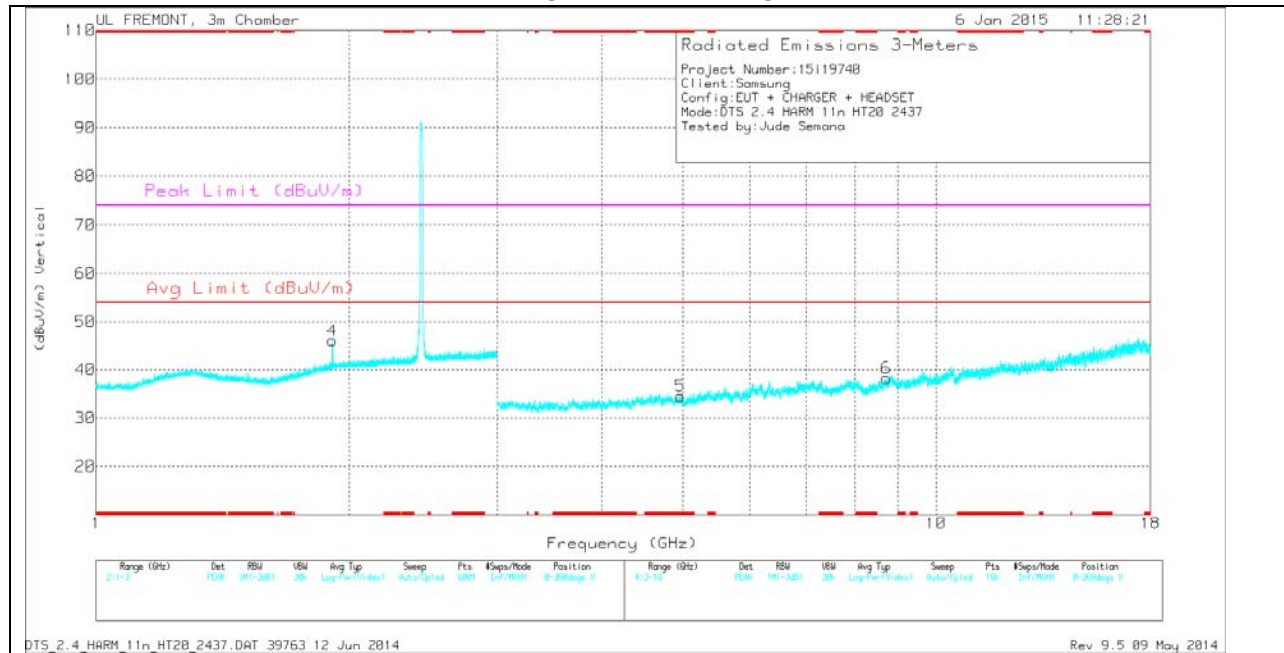
PK - Peak detector

MID CHANNEL HORIZONTAL



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

MID CHANNEL VERTICAL



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

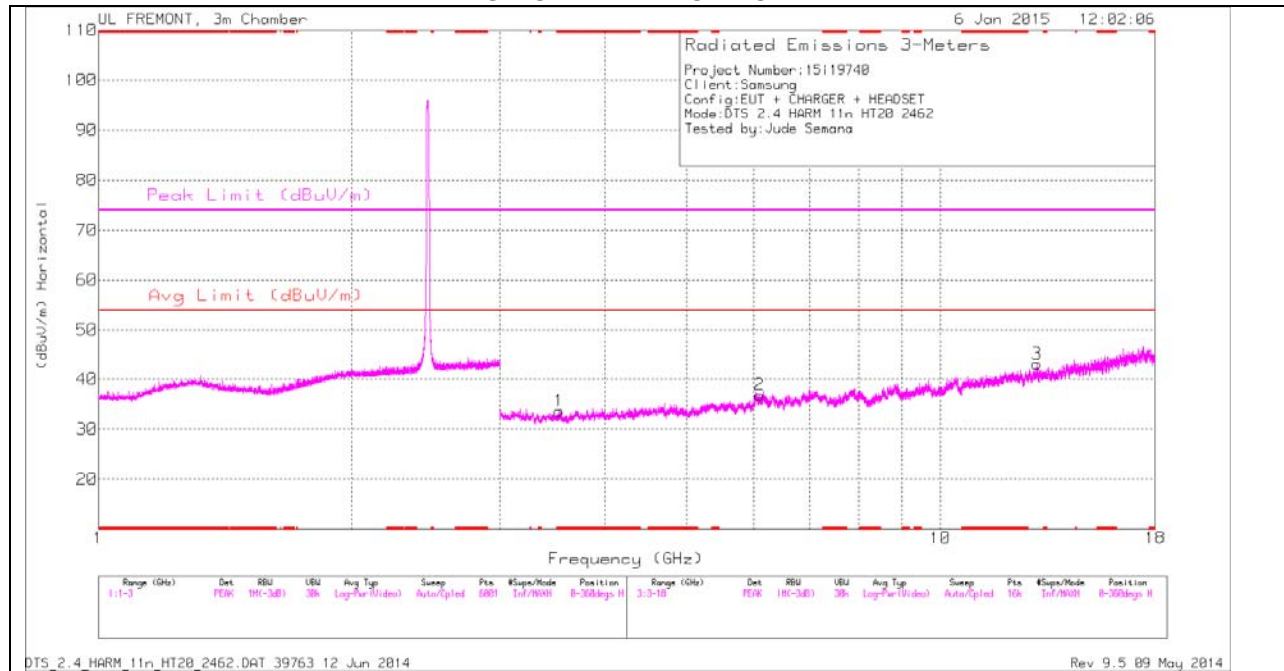
MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.738	31.29	PK	33.2	-30.9	0	33.59	-	-	74	-40.41	0-360	200	H
5	* 4.965	31.5	PK	34	-31	0	34.5	-	-	74	-39.5	0-360	100	V
4	1.91	37.9	PK	31.3	-23.2	0	46	-	-	-	-	0-360	100	V
2	7.119	30.49	PK	35.6	-28	0	38.09	-	-	-	-	0-360	200	H
6	8.727	29.92	PK	35.9	-27.6	0	38.22	-	-	-	-	0-360	100	V
3	10.374	28.8	PK	37.3	-25.8	0	40.3	-	-	-	-	0-360	200	H

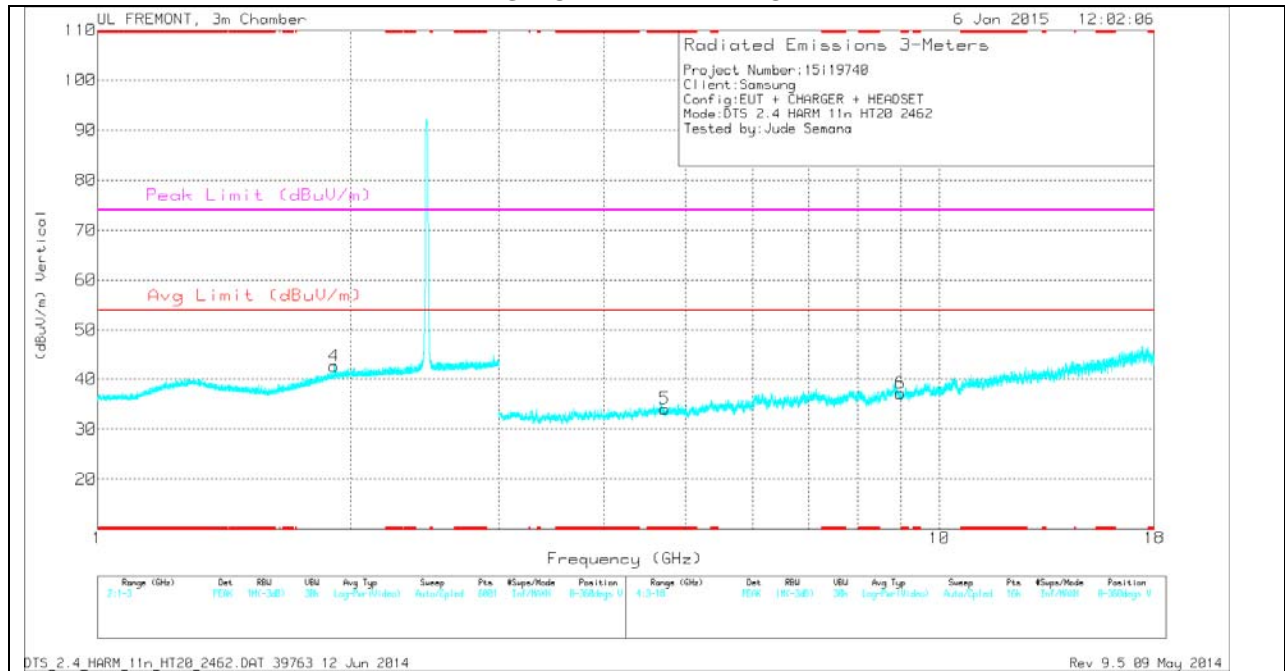
PK - Peak detector

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

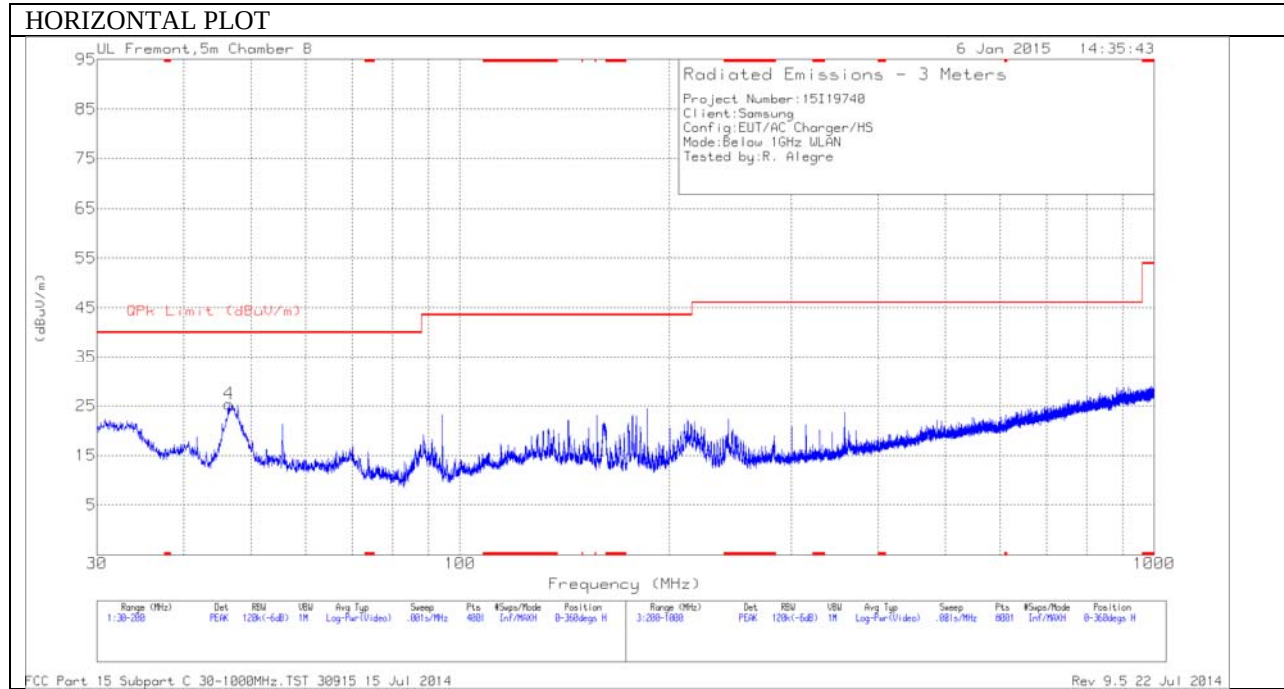
TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.911	34.52	PK	31.3	-23.2	0	42.62	-	-	-	-	0-360	100	V
2	6.096	30.35	PK	35.3	-28.8	0	36.85	-	-	-	-	0-360	100	H
3	13.032	31.14	PK	39.1	-27.2	0	43.04	-	-	-	-	0-360	100	H
5	* 4.719	31.01	PK	34.1	-31	0	34.11	-	-	74	-39.89	0-360	200	V
6	8.995	28.23	PK	36.1	-27.1	0	37.23	-	-	-	-	0-360	100	V

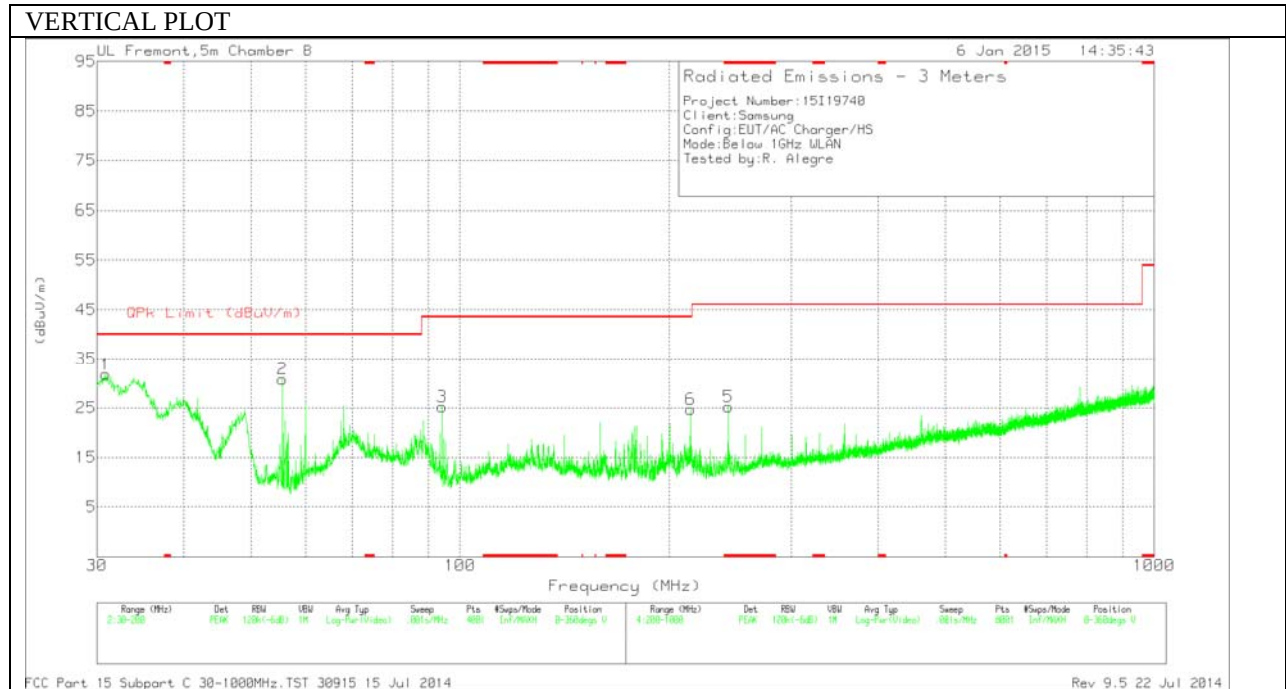
PK - Peak detector

10.3. WORST-CASE BELOW 1 GHz

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	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 243.4	40.06	PK	11.6	-26.4	25.26	46.02	-20.76	0-360	200	V
1	30.8925	40.48	PK	20.1	-28.8	31.78	40	-8.22	0-360	101	V
4	46.49	44.21	PK	9.7	-28.5	25.41	40	-14.59	0-360	300	H
2	55.5425	52.07	PK	7.3	-28.5	30.87	40	-9.13	0-360	101	V
3	94.2175	44.69	PK	8.6	-28.1	25.19	43.52	-18.33	0-360	101	V
6	214.8	40.97	PK	10.6	-26.8	24.77	43.52	-18.75	0-360	200	V

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4 2009.

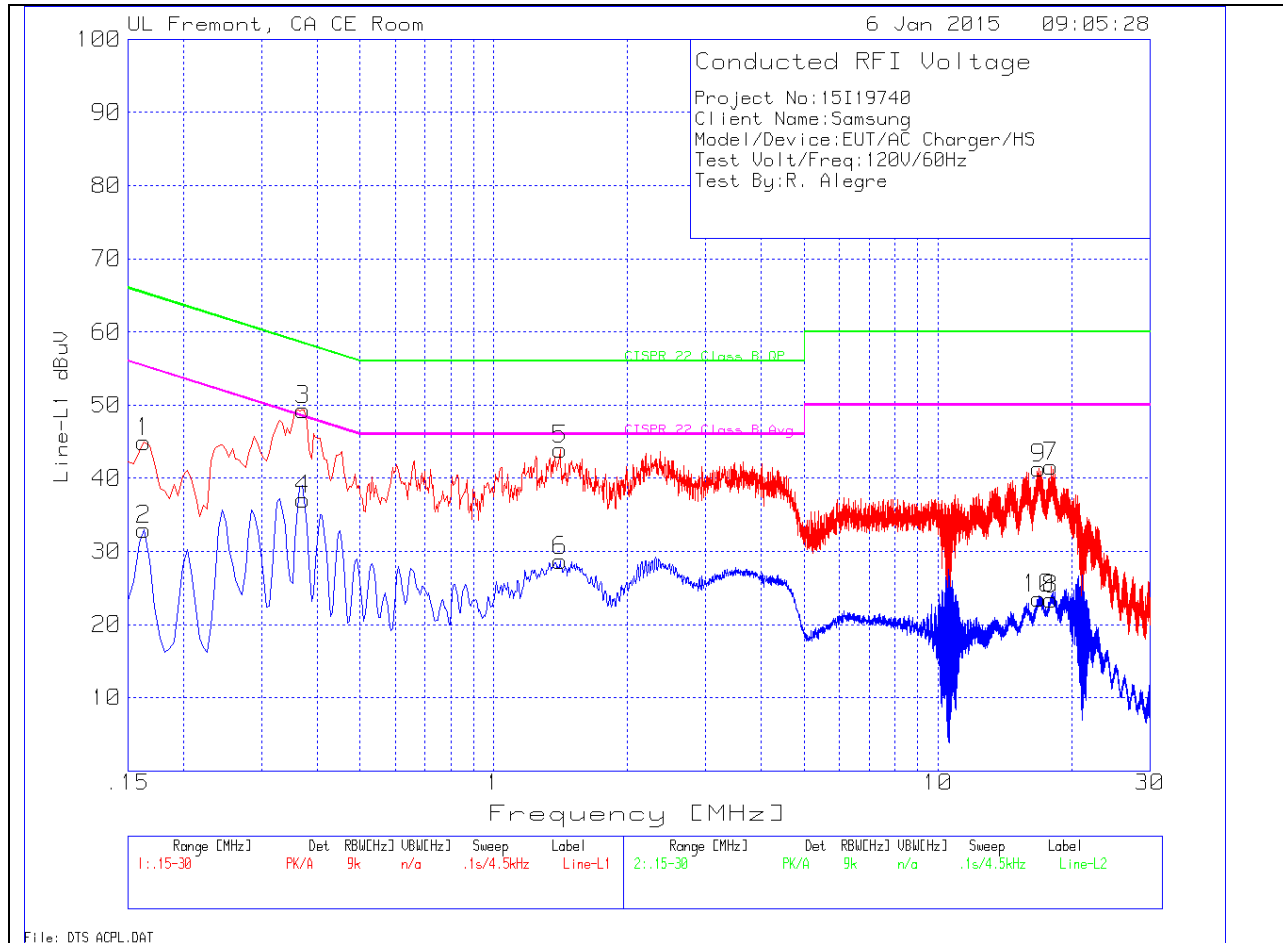
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT

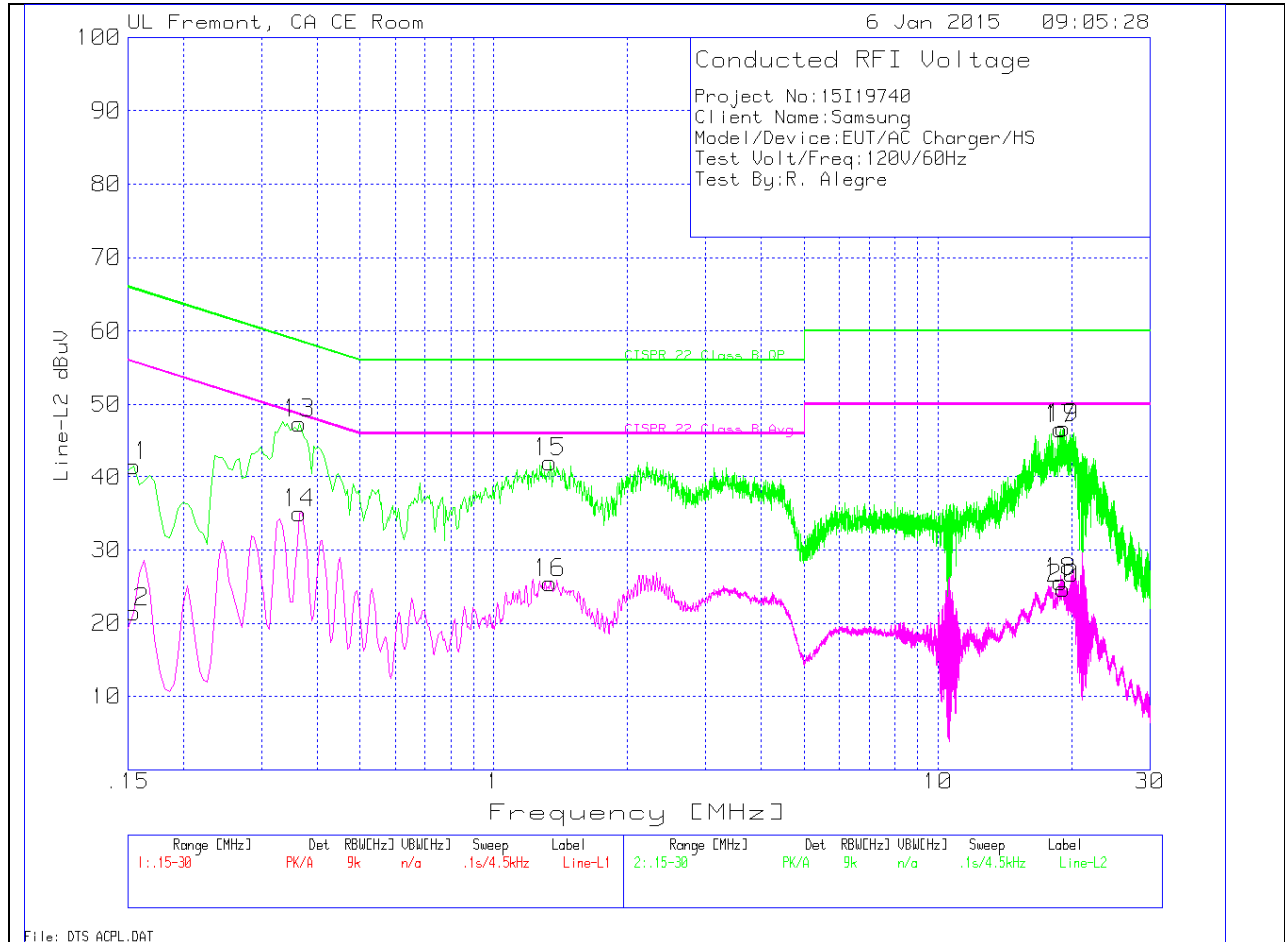


LINE 1 RESULTS

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	.1635	43.79	PK	1.2	0	44.99	65.3	-20.31	-	-
2	.1635	31.79	Av	1.2	0	32.99	-	-	55.3	-22.31
3	.37275	48.88	PK	.4	0	49.28	58.4	-9.12	-	-
4	.37275	36.68	Av	.4	0	37.08	-	-	48.4	-11.32
5	1.41	43.6	PK	.2	.1	43.9	56	-12.1	-	-
6	1.41	28.39	Av	.2	.1	28.69	-	-	46	-17.31
9	16.854	40.87	PK	.3	.2	41.37	60	-18.63	-	-
10	16.854	23.04	Av	.3	.2	23.54	-	-	50	-26.46
7	17.97	41.05	PK	.3	.2	41.55	60	-18.45	-	-
8	17.97	22.96	Av	.3	.2	23.46	-	-	50	-26.54

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
11	.1545	40.18	PK	1.4	0	41.58	65.8	-24.22	-	-
12	.1545	20.14	Av	1.4	0	21.54	-	-	55.8	-34.26
13	.366	46.84	PK	.5	0	47.34	58.6	-11.26	-	-
14	.366	34.51	Av	.5	0	35.01	-	-	48.6	-13.59
15	1.338	41.79	PK	.2	.1	42.09	56	-13.91	-	-
16	1.338	25.2	Av	.2	.1	25.5	-	-	46	-20.5
17	18.8565	46.08	PK	.3	.2	46.58	60	-13.42	-	-
18	18.8565	25.13	Av	.3	.2	25.63	-	-	50	-24.37
19	19.14	46.29	PK	.3	.2	46.79	60	-13.21	-	-
20	19.14	24.16	Av	.3	.2	24.66	-	-	50	-25.34