



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

GSM PHONE + BLUETOOTH and WLAN 2.4GHz b/g/n

MODEL NUMBER: SM-J110H/DS and SM-J110H/DD

FCC ID: A3LSMJ110H

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Prepared for

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM Phone + Bluetooth and WLAN 2.4GHz b/g/n
MODEL: SM-J110H/DS and SM-J110H/DD
SERIAL NUMBER: R31G600HD0B(Conducted), R31G600HJNP(Radiated)
DATE TESTED: JULY 2 - 7, 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.

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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 C63.10-2009 for FCC.

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(IC: 2324B-1)	☐ Chamber D(IC: 2324B-4)
☒ Chamber B(IC: 2324B-2)	☐ Chamber E(IC: 2324B-5)
☒ Chamber C(IC: 2324B-3)	☐ Chamber F(IC: 2324B-6)
	☐ Chamber G(IC: 2324B-7)
	☐ Chamber H(IC: 2324B-8)

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 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 PHONE + BLUETOOTH and WLAN 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	16.26	42.27
2412 - 2462	802.11g	14.21	26.36
2412 - 2462	802.11n HT20	12.26	16.83

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of 1.59 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	ETAOU10EBE	N/A	N/A
Earphone	Samsung	N/A	N/A	N/A

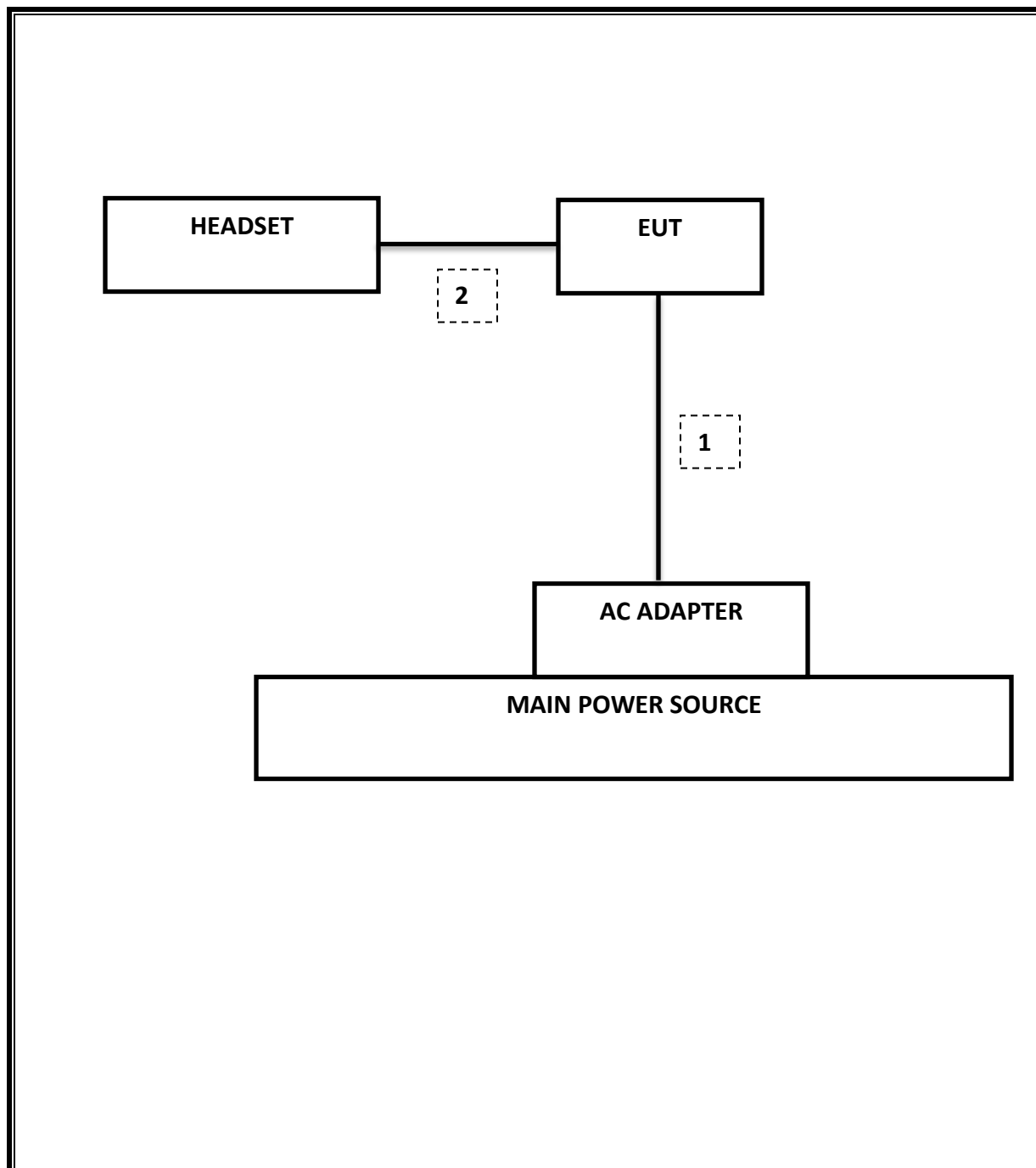
I/O CABLES

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	04/01/16
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	02/21/16
Antenna, Horn, 18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/15
Antenna, Horn, 26-40 GHz	ARA	MWH-2640	C00891	06/28/16
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	03/06/16
RF Preamplifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/16
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/16
RF Preamplifier, 1GHz - 26.5GHz	HP	8449B	F00351	06/27/16
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	05/23/16
High Pass Filter 5GHz	Micro-Tronics	HPS17542	F00222	05/22/16
High Pass Filter 6GHz	Micro-Tronics	HPM17543	F00224	05/22/16
Radiated Software	UL	UL EMC	Ver 9.5, July 22, 2014	
Conducted Software	UL	UL EMC	Ver 9.5, May 17 2012	
CLT Software	UL	UL RF	Ver 1.0, Feb 2 2015	
Antenna Port Software	UL	UL RF	Ver 2.1.1.1, Jan 20 2015	

7. MEASUREMENT METHODS

KDB 558074 D01 DTS Meas Guidance v03r03: 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-247 5.2.1	Occupied Band width (6dB)	>500KHz	Conducted	Pass	9.07 MHz
2.1051, 15.247 (d)	RSS-247 5.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-28.74 dBm
15.247	RSS-247 5.4.4	TX conducted output power	<30dBm		Pass	16.26dBm
15.247	RSS-247 5.2.2	PSD	<8dBm		Pass	-5.28 dBm
15.207 (a)	RSS-GEN 8.8	AC Power Line conducted emissions	Section 10	Radiated	Pass	48.34 dBuV
15.205, 15.209	RSS-GEN 8.9/7	Radiated Spurious Emission	< 54dBuV/m		Pass	49.77 dBuV/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 v03r03: 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	9.11	0.5
Mid	2437	9.07	0.5
High	2462	9.10	0.5
Worst		9.07	

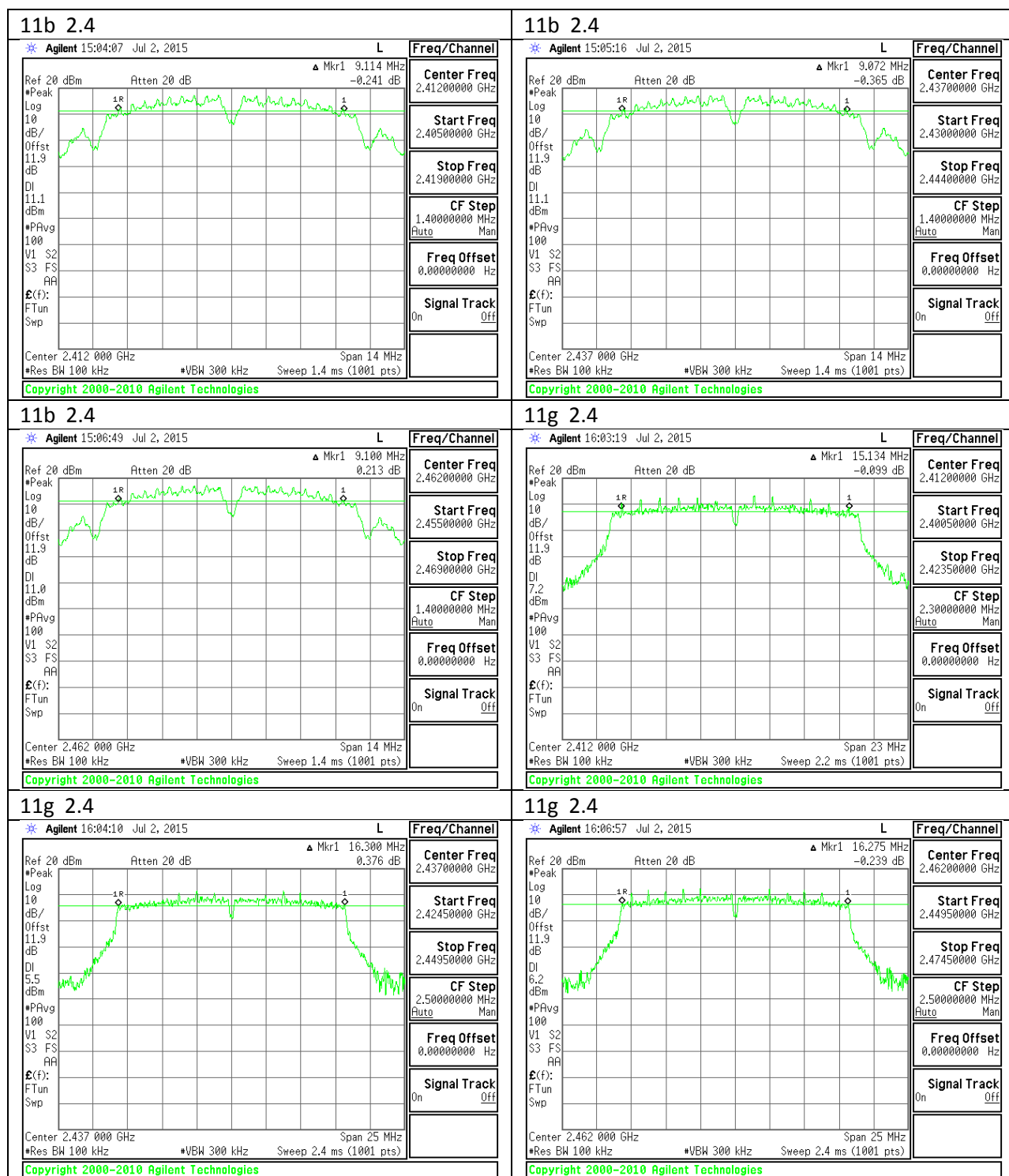
9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

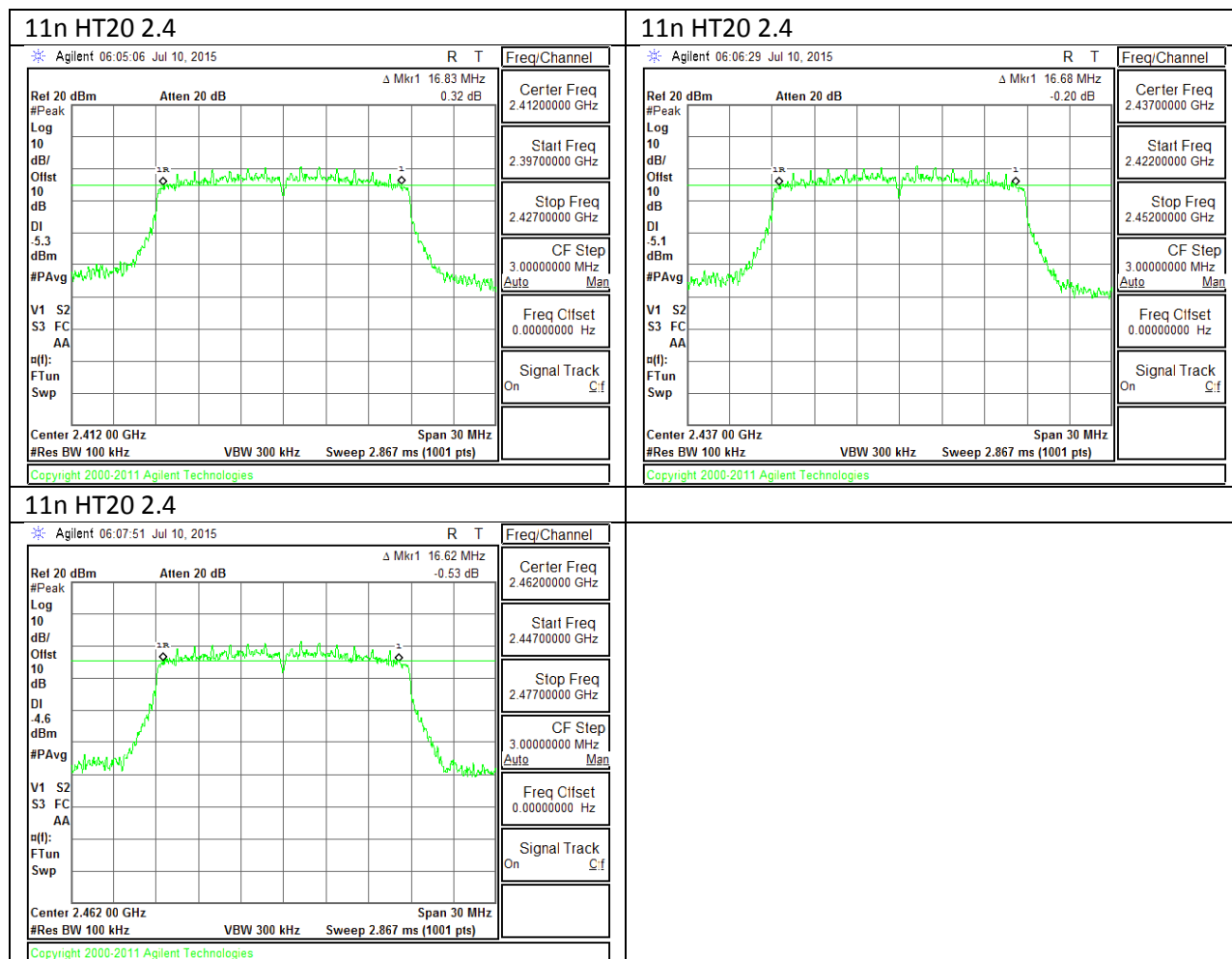
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	15.13	0.5
Mid	2437	16.30	0.5
High	2462	16.28	0.5
Worst		15.13	

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	16.83	0.5
Mid	2437	16.68	0.5
High	2462	16.62	0.5
Worst		16.62	

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	11.79
Mid	2437	11.66
High	2462	11.99
Worst		11.99

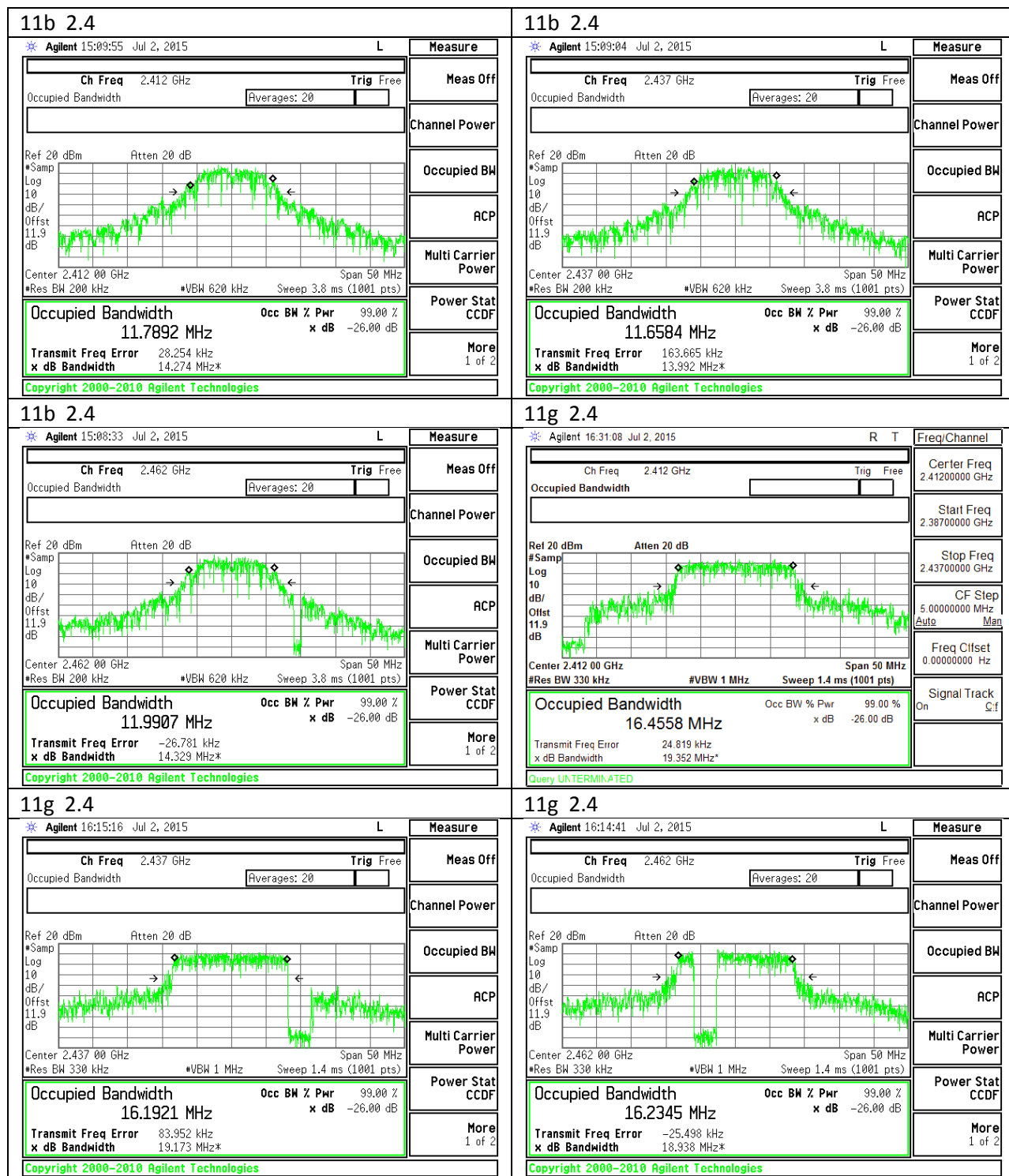
9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

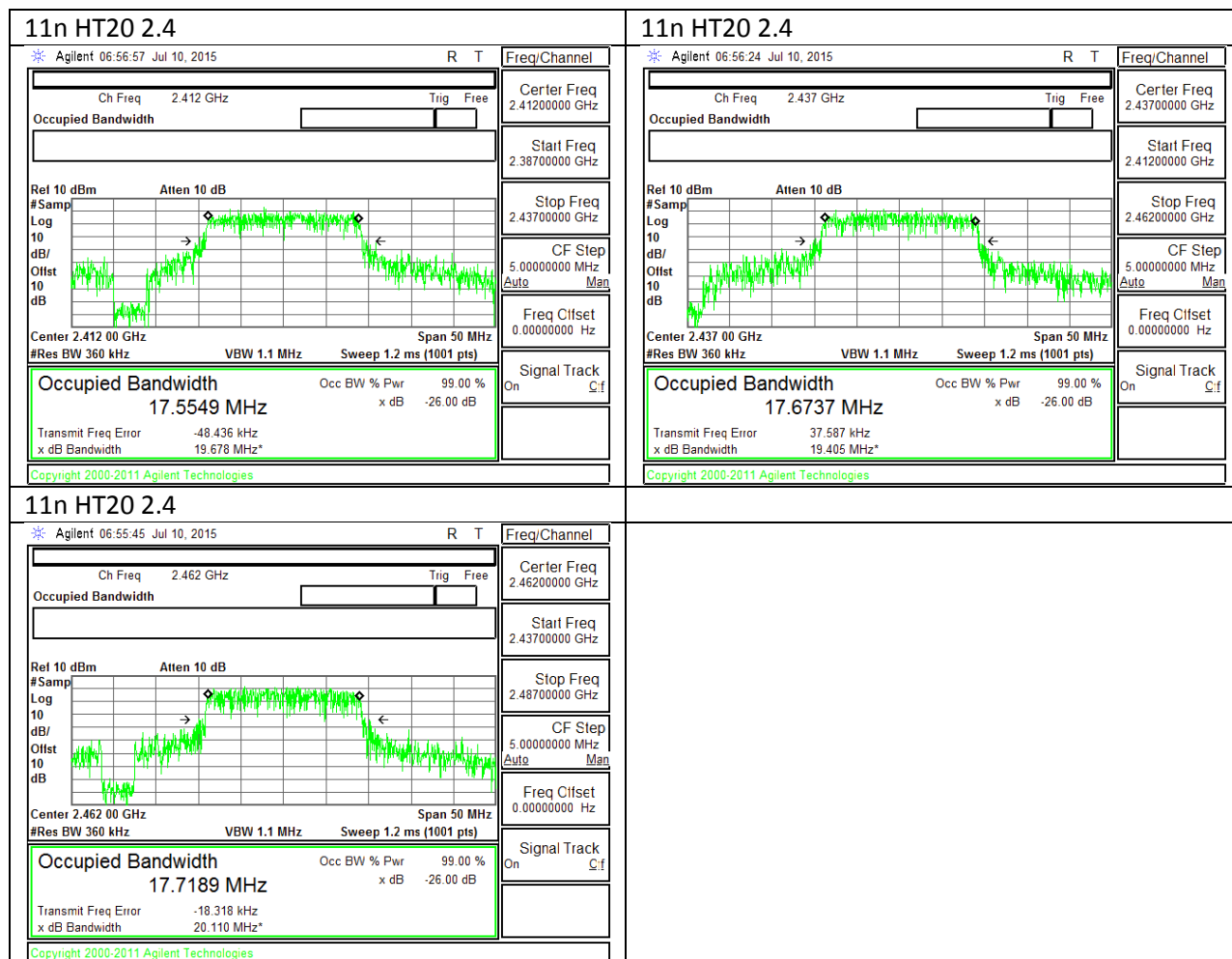
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.46
Mid	2437	16.19
High	2462	16.23
Worst		16.46

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.55
Mid	2437	17.67
High	2462	17.72
Worst		17.72

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.

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	1.59	30.00	30	36	30.00
Mid	2437	1.59	30.00	30	36	30.00
High	2462	1.59	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	16.02	16.02	30.00	-13.98
Mid	2437	16.12	16.12	30.00	-13.88
High	2462	16.26	16.26	30.00	-13.74
Worst			16.26		

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	1.59	30.00	30	36	30.00
Mid	2437	1.59	30.00	30	36	30.00
High	2462	1.59	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	14.18	14.18	30.00	-15.82
Mid	2437	14.00	14.00	30.00	-16.00
High	2462	14.21	14.21	30.00	-15.79
Worst			14.21		

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	1.59	30.00	30	36	30.00
Mid	2437	1.59	30.00	30	36	30.00
High	2462	1.59	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	12.26	12.26	30.00	-17.74
Mid	2437	11.95	11.95	30.00	-18.05
High	2462	12.11	12.11	30.00	-17.89
Worst			12.26		

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	-5.28	8.0	-13.3
Mid	2437	-5.35	8.0	-13.4
High	2462	-8.92	8.0	-16.9

9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

PSD Results

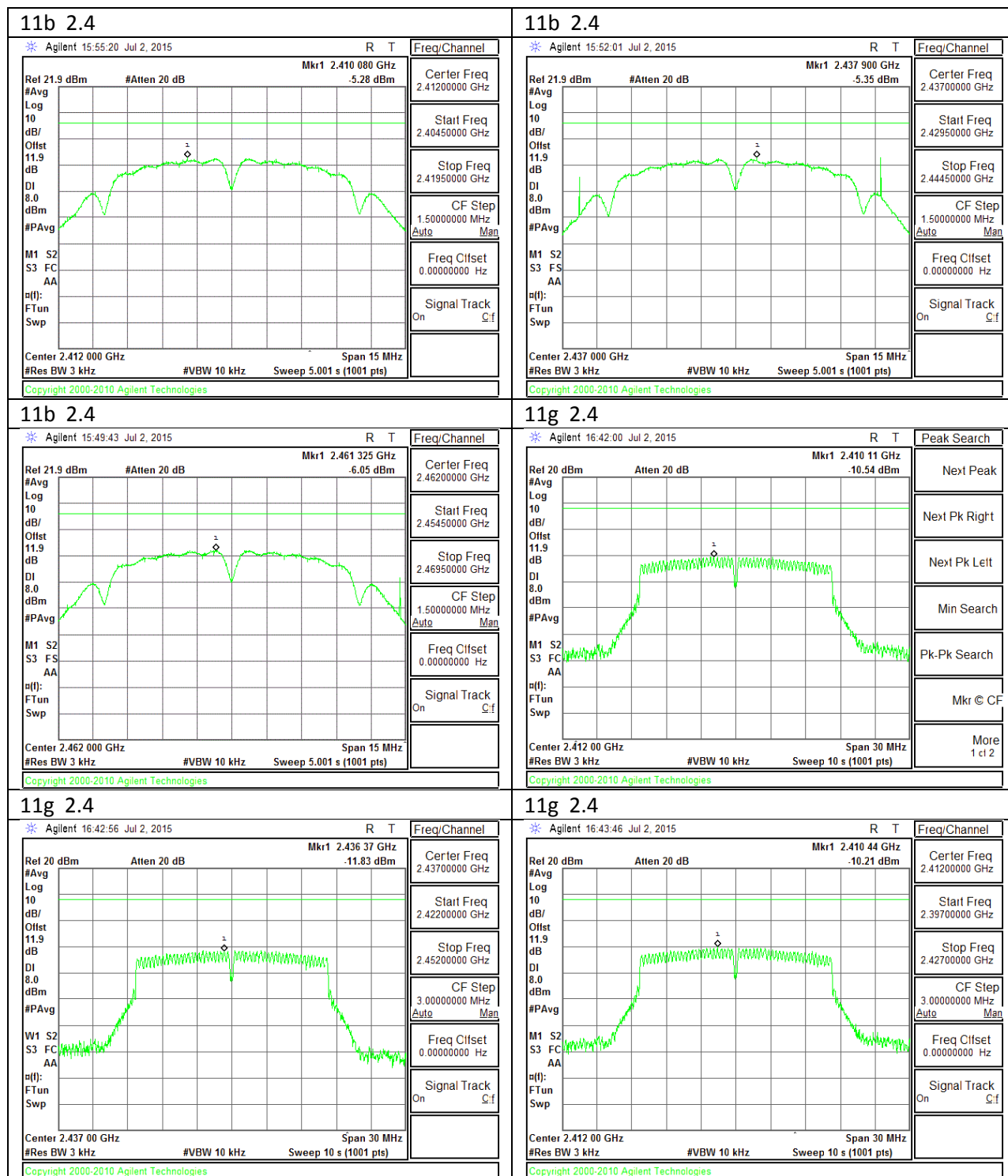
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-10.54	8.0	-18.5
Mid	2437	-11.83	8.0	-19.8
High	2462	-10.21	8.0	-18.2

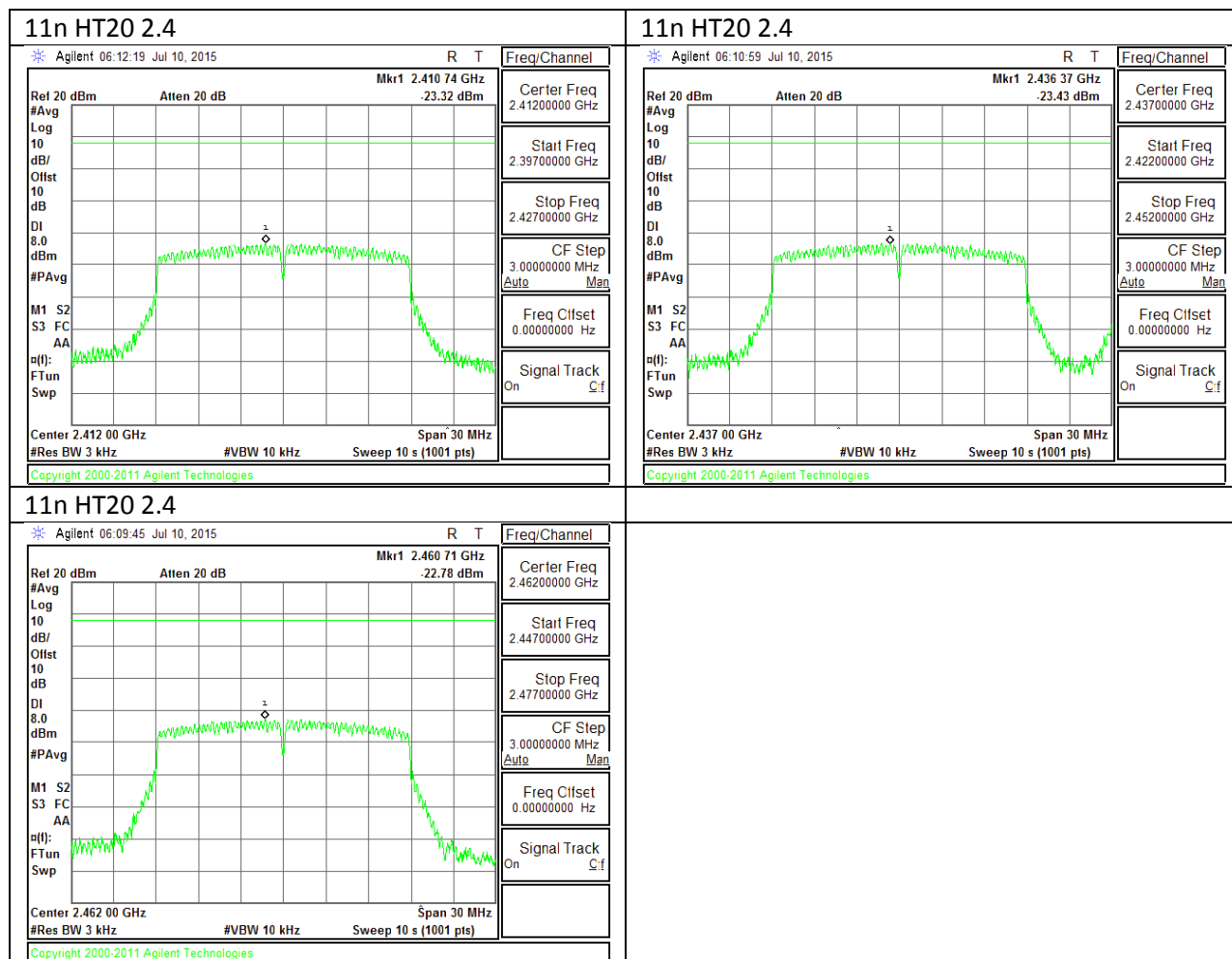
9.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-23.22	8.0	-31.2
Mid	2437	-23.43	8.0	-31.4
High	2462	-12.80	8.0	-20.8

9.4.4. PSD All 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.

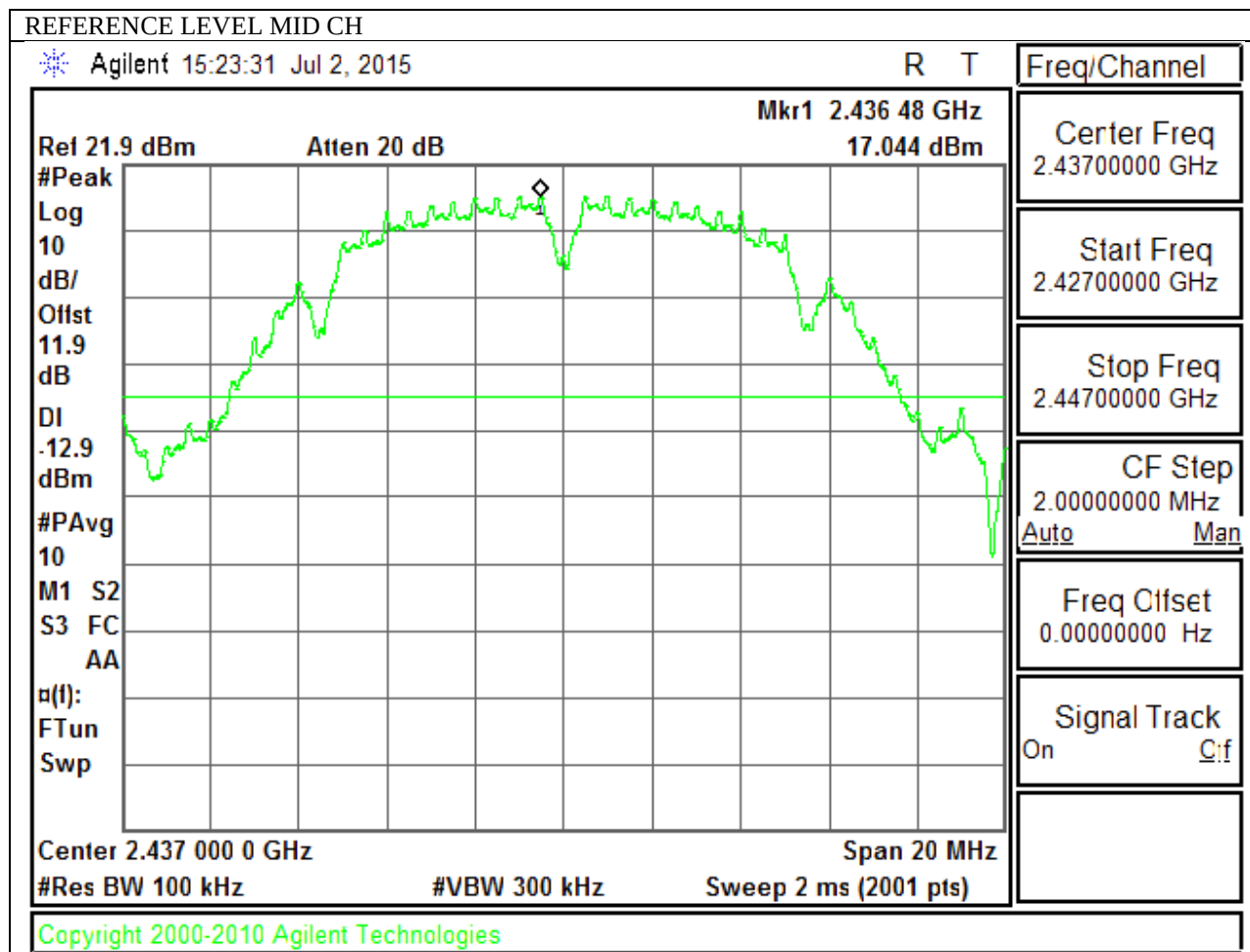
TEST PROCEDURE

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.

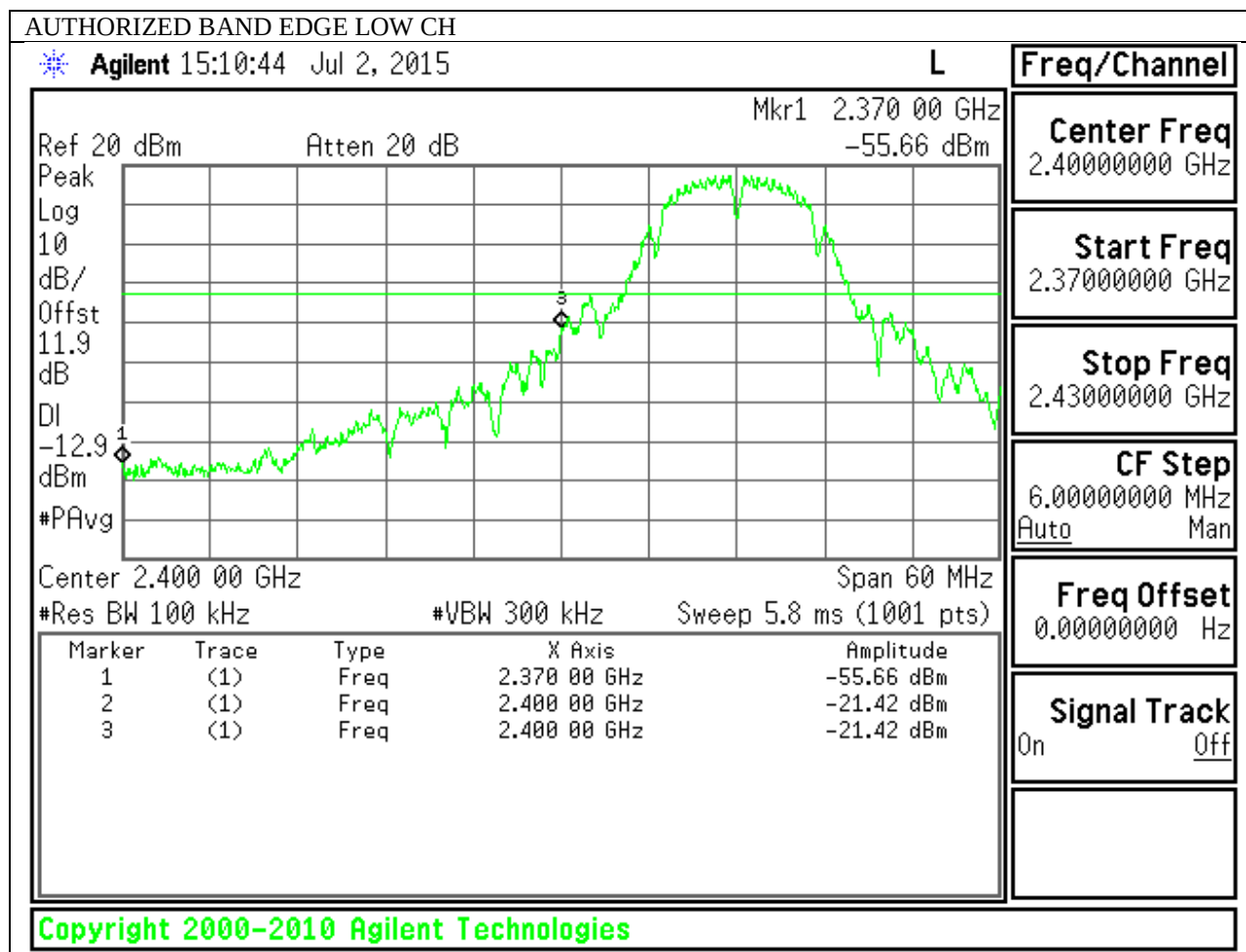
RESULTS

9.5.1. 802.11b MODE IN THE 2.4 GHz BAND

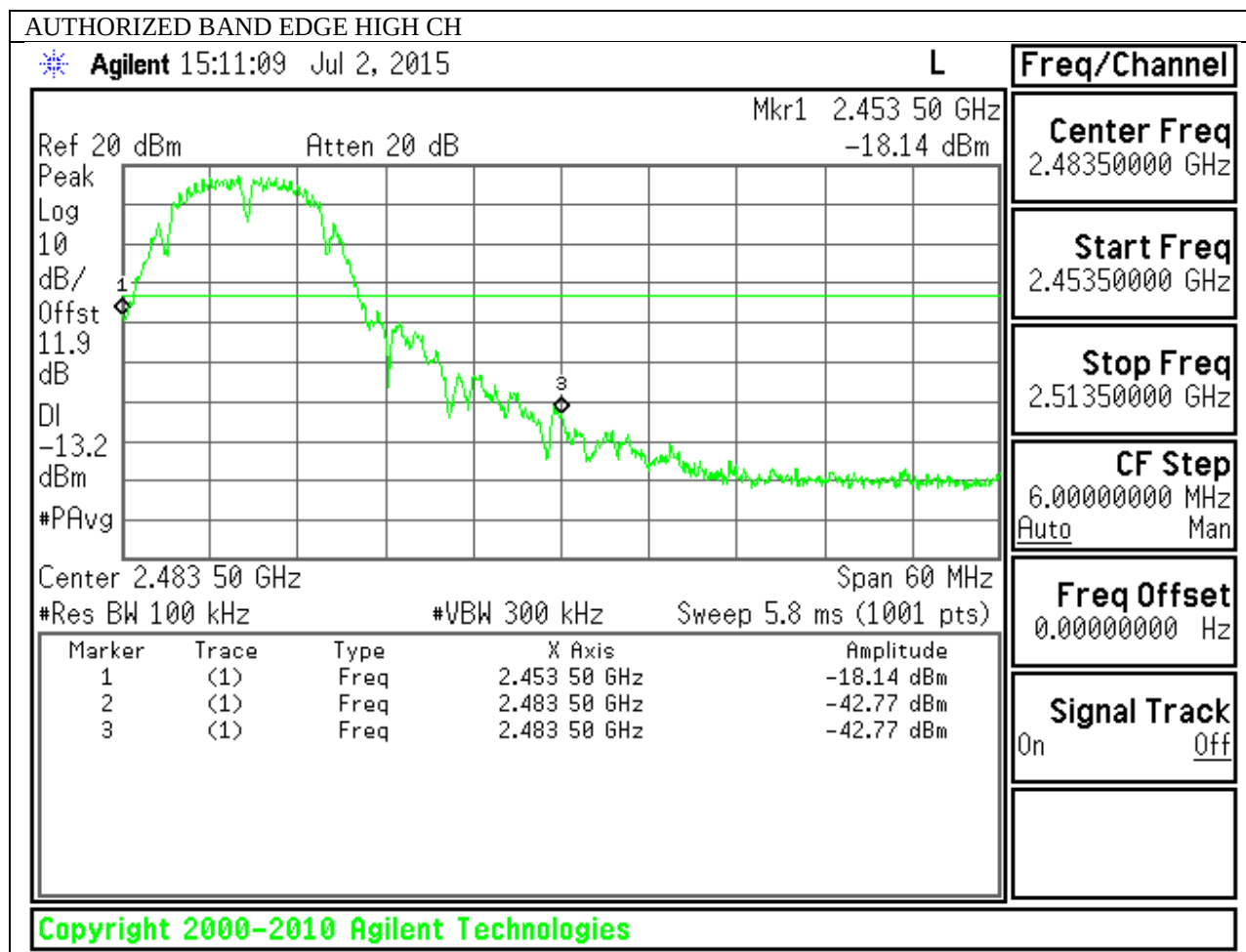
IN-BAND REFERENCE LEVEL



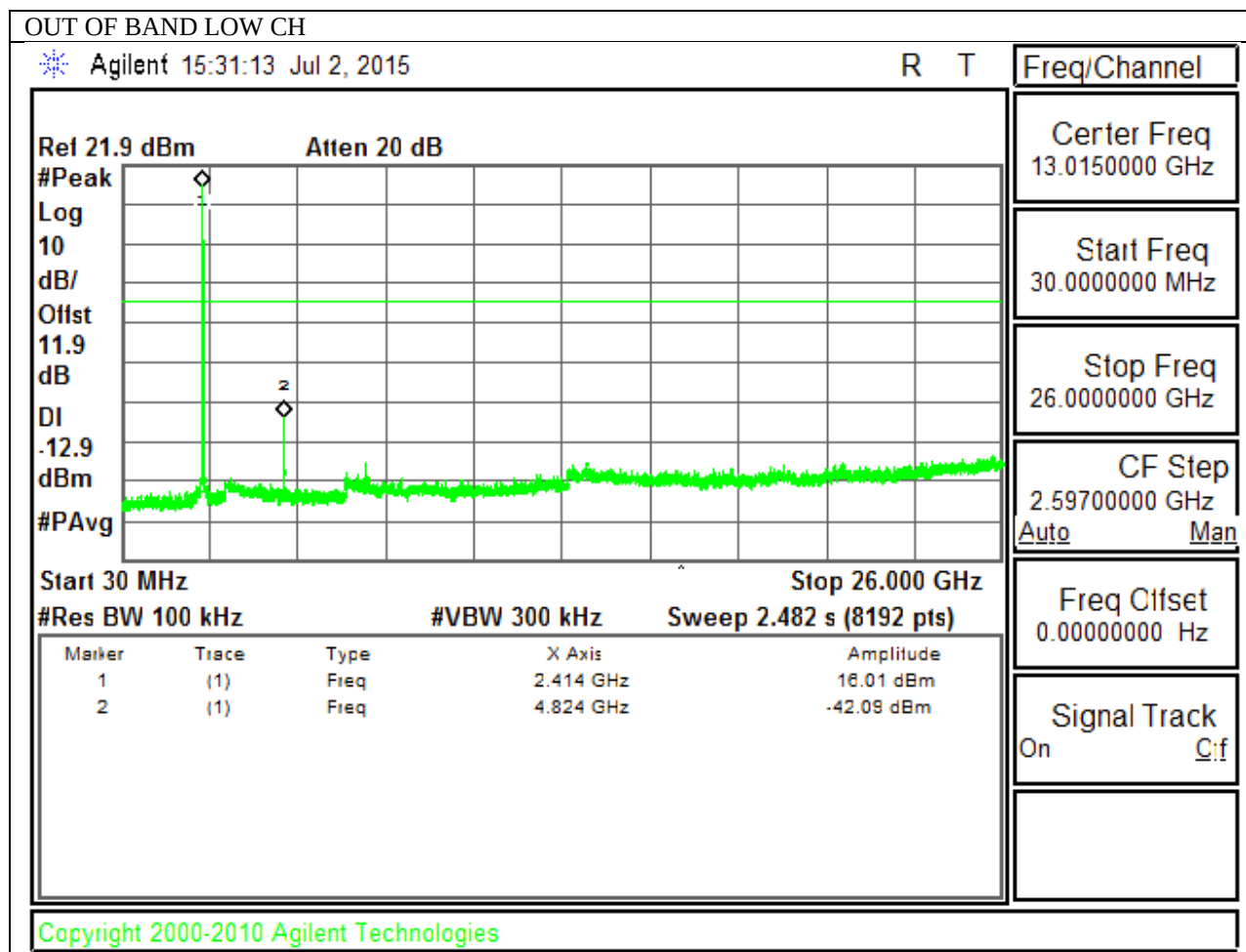
LOW CHANNEL BANDEDGE

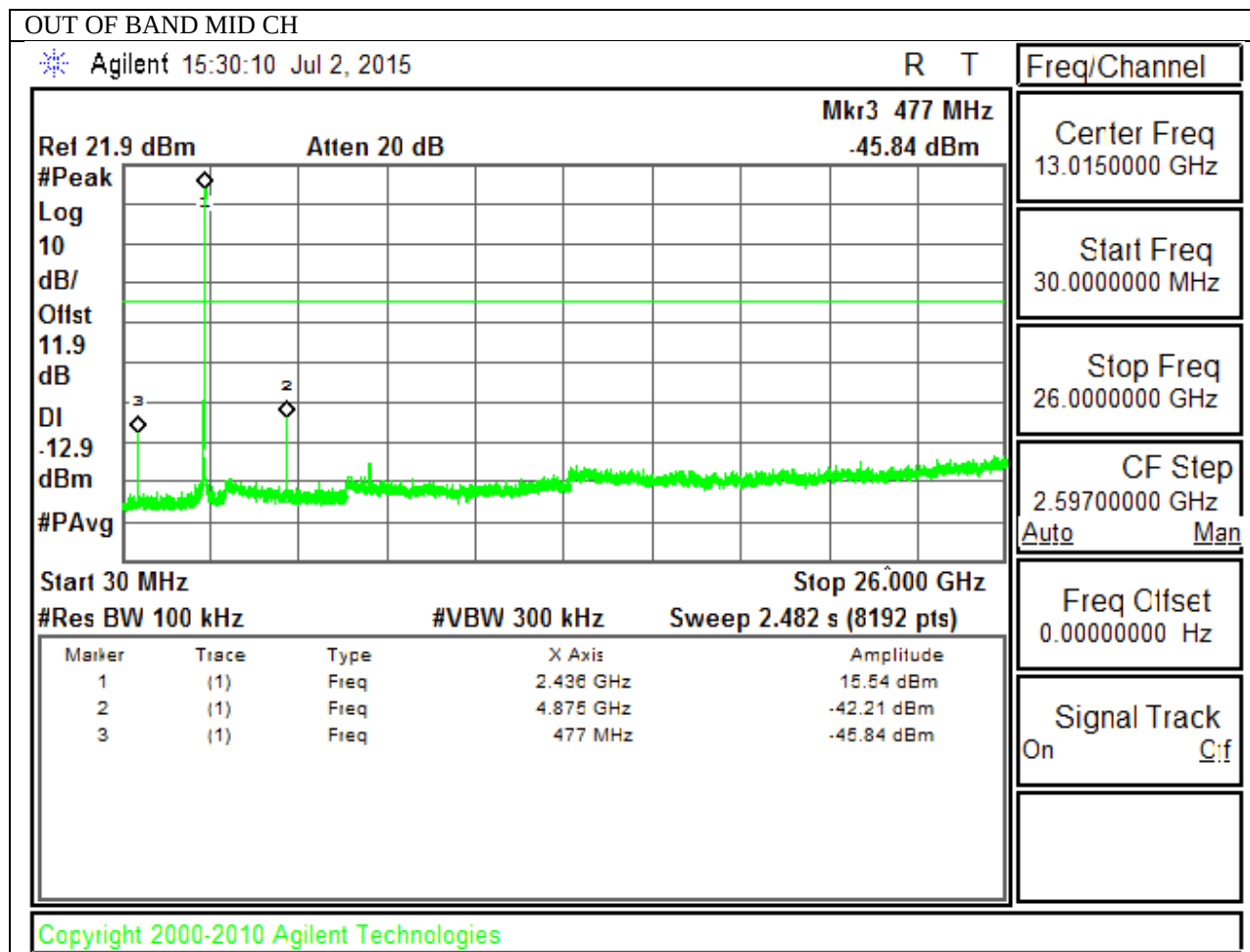


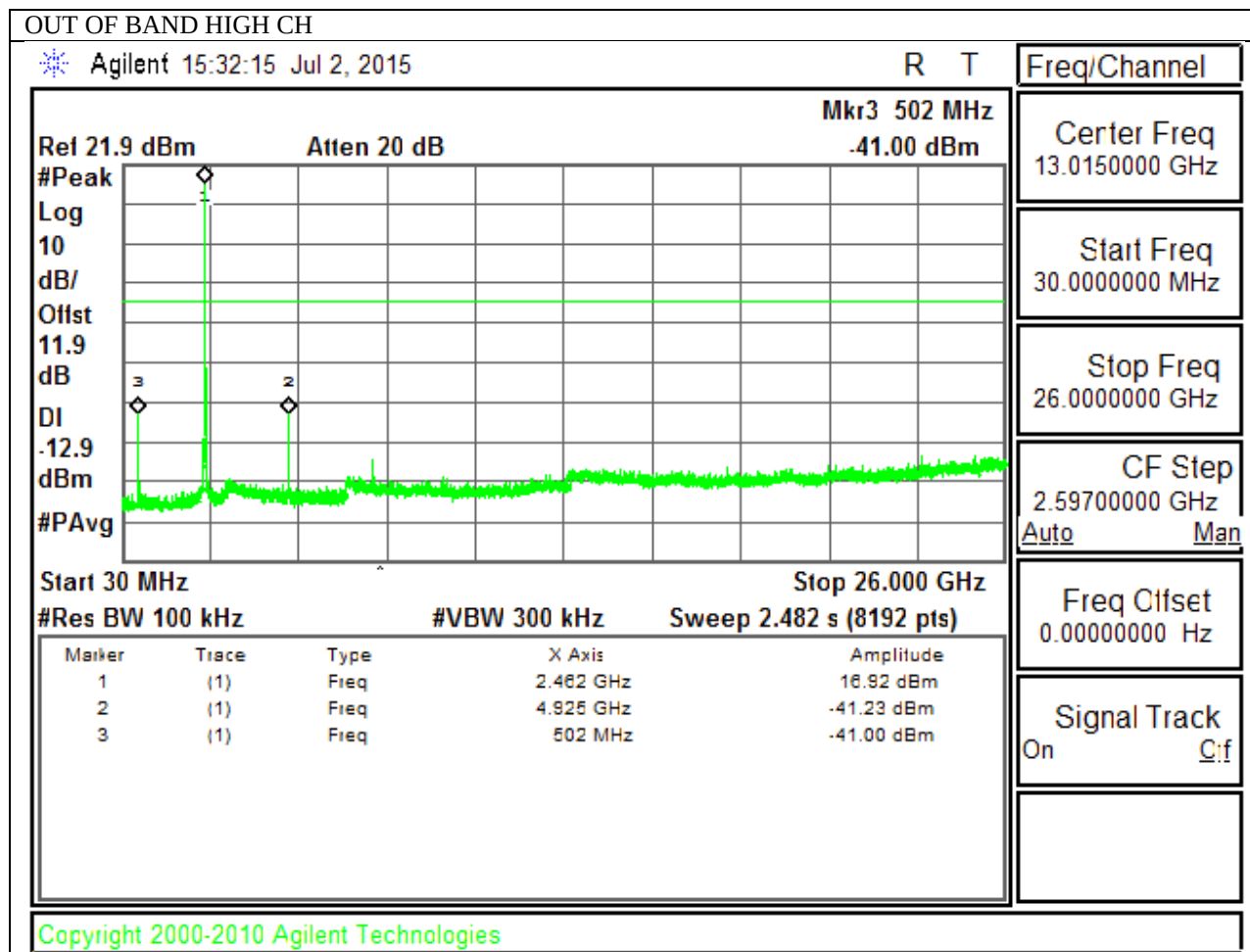
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

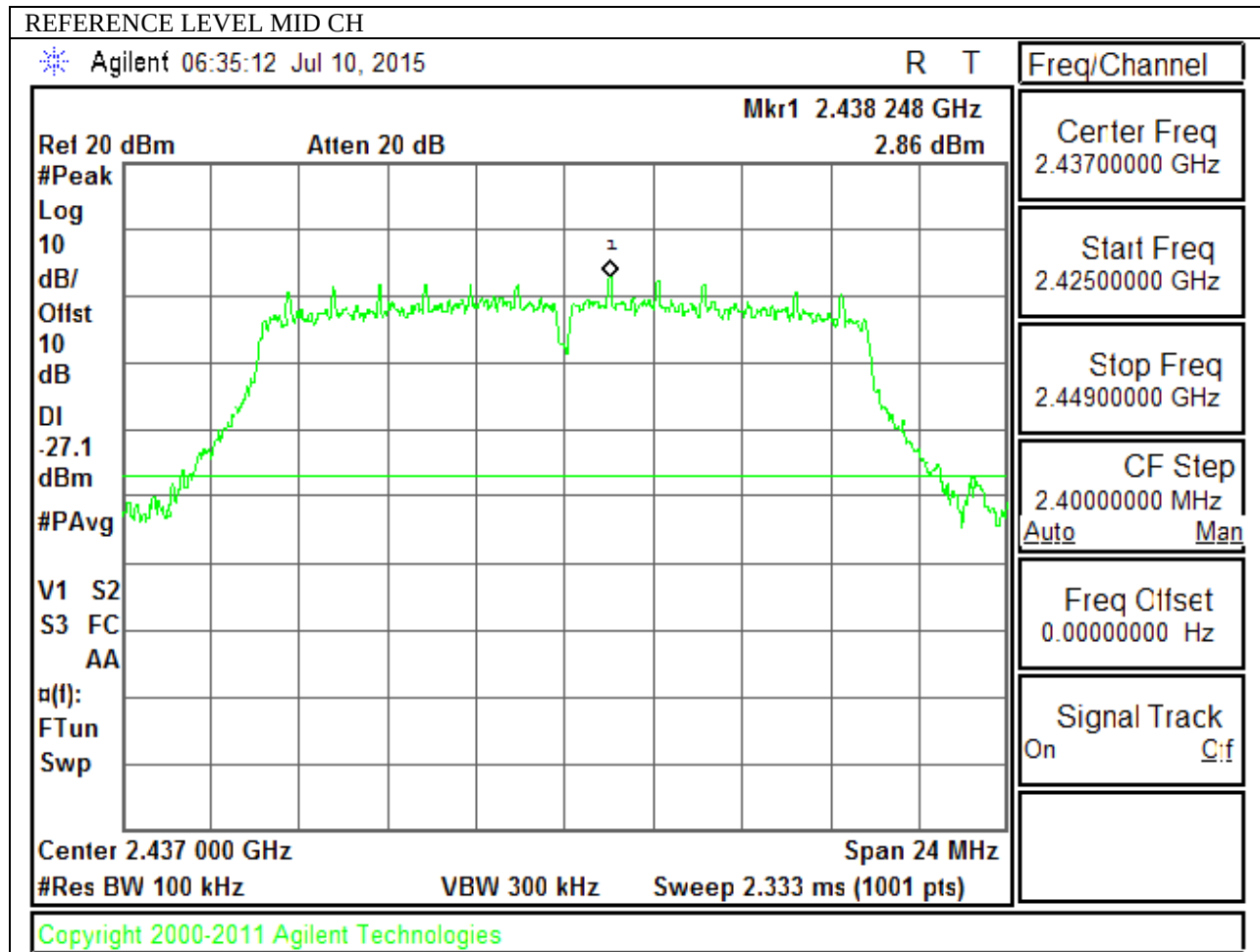




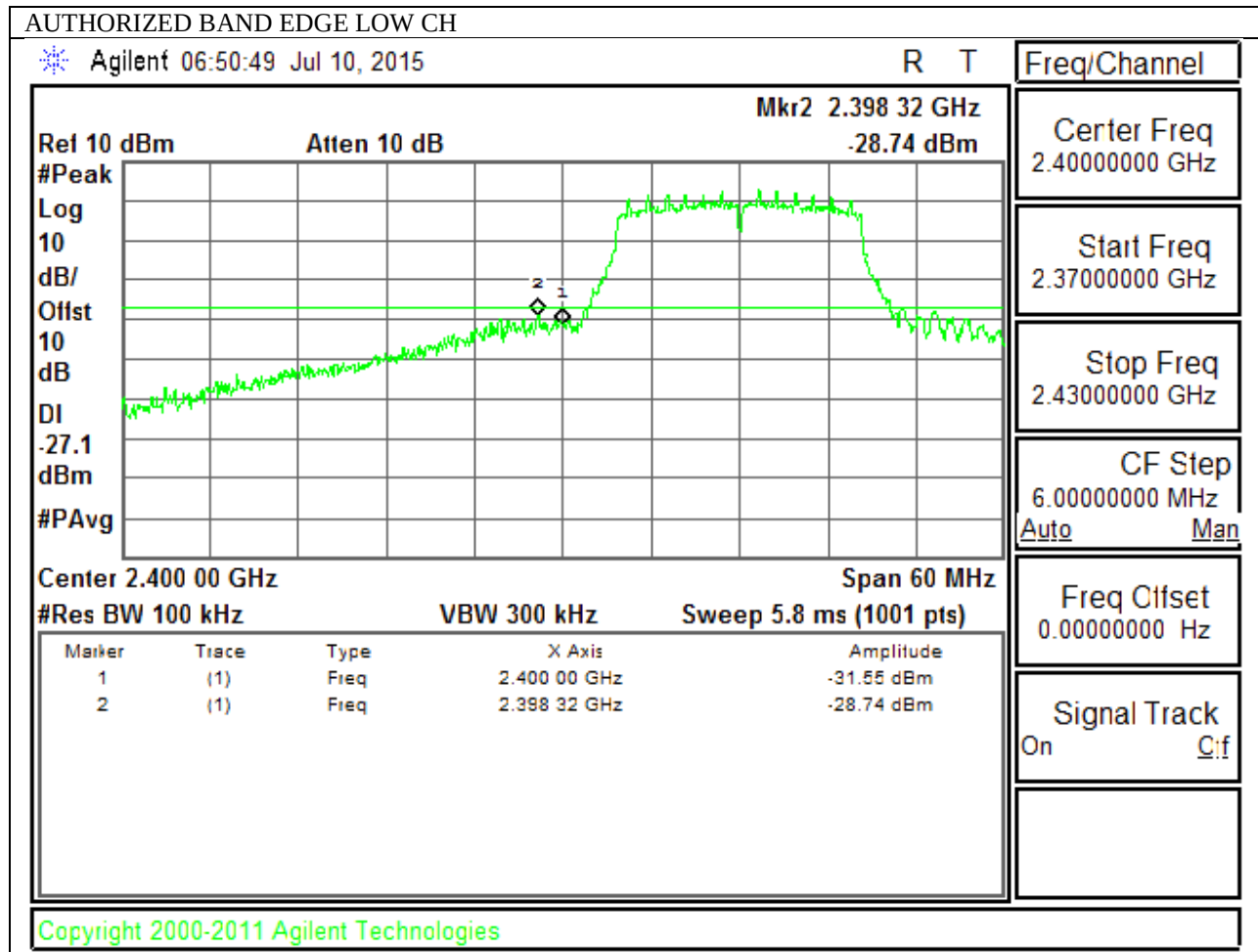


9.5.2. 802.11g MODE IN THE 2.4 GHz BAND

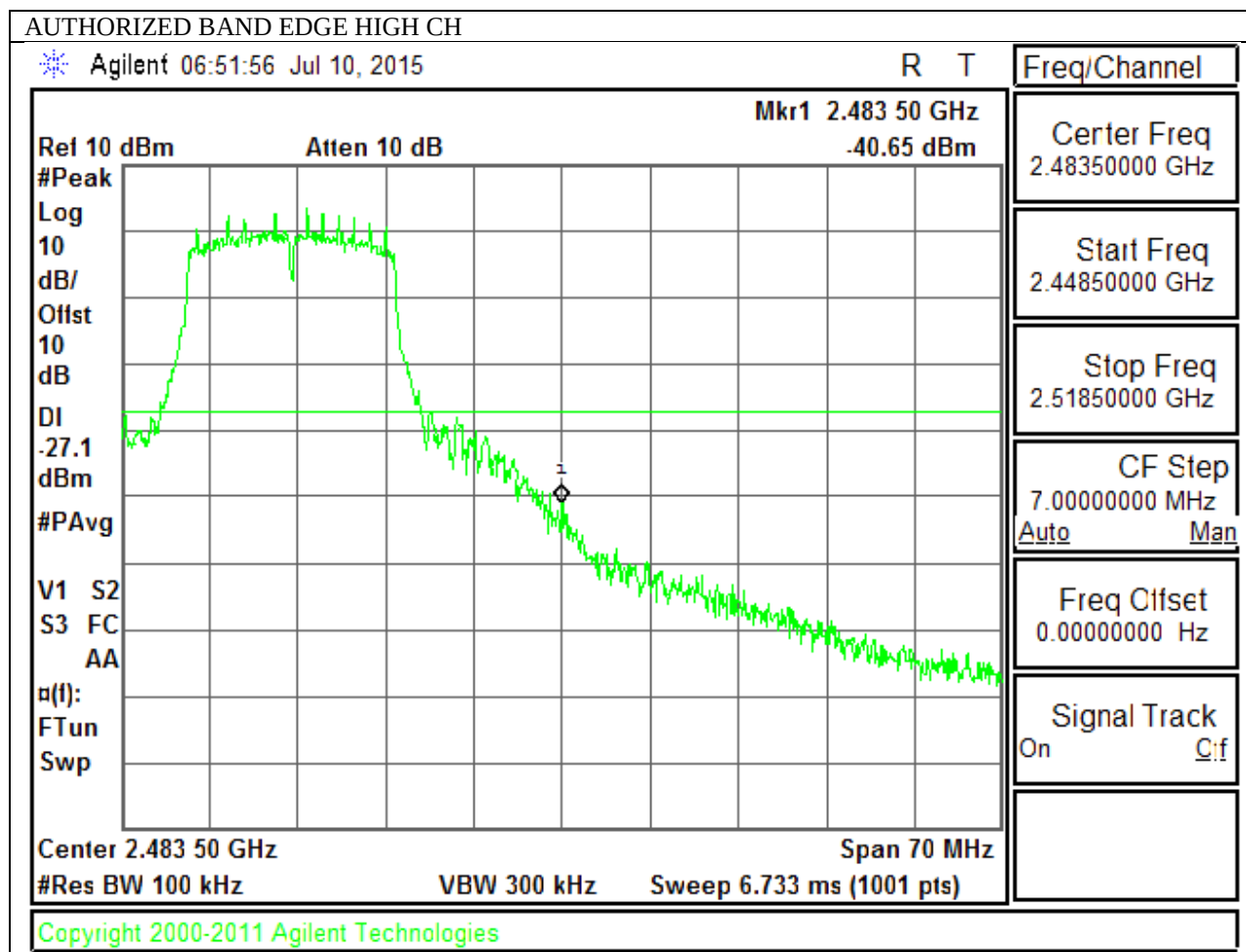
IN-BAND REFERENCE LEVEL



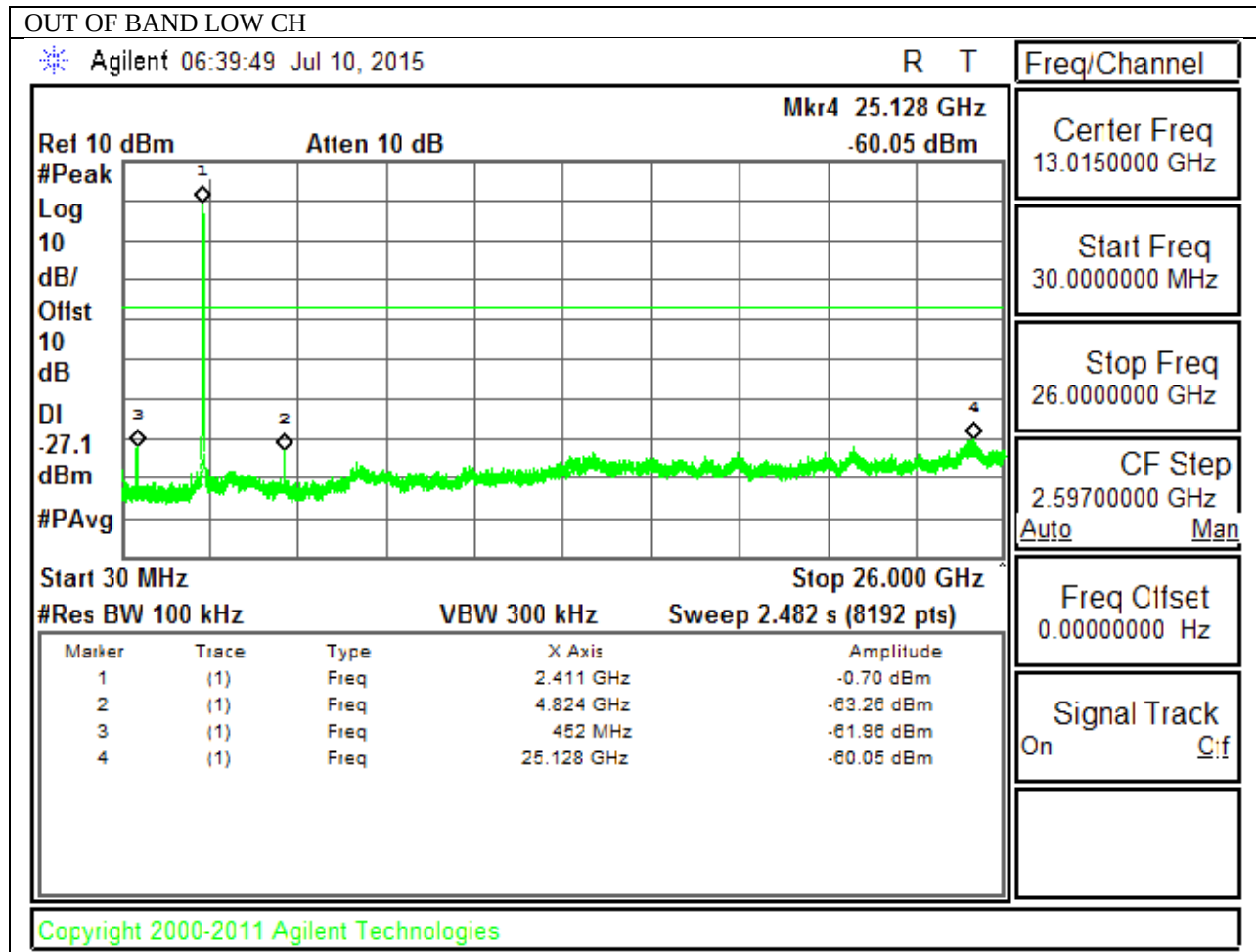
LOW CHANNEL BANDEDGE

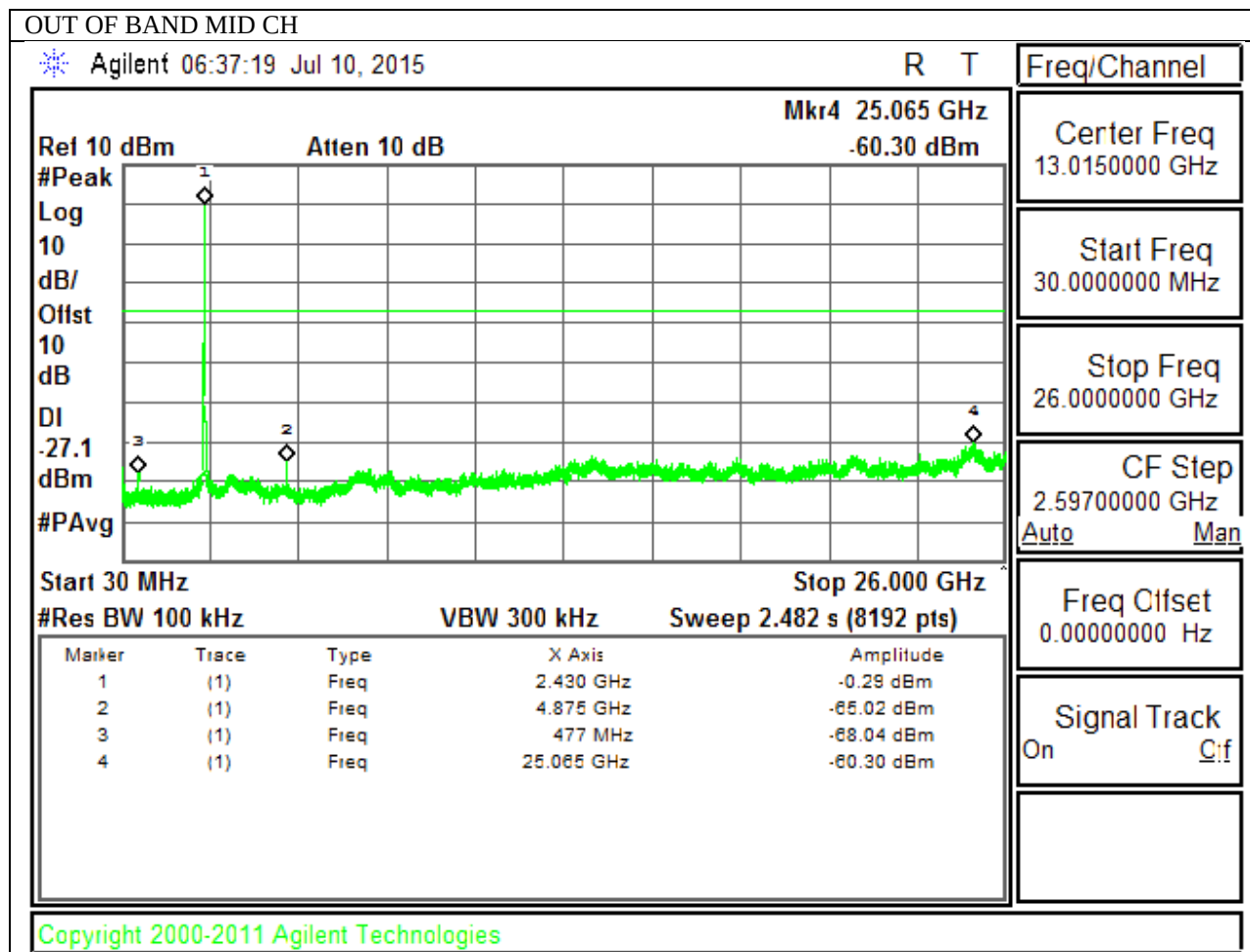


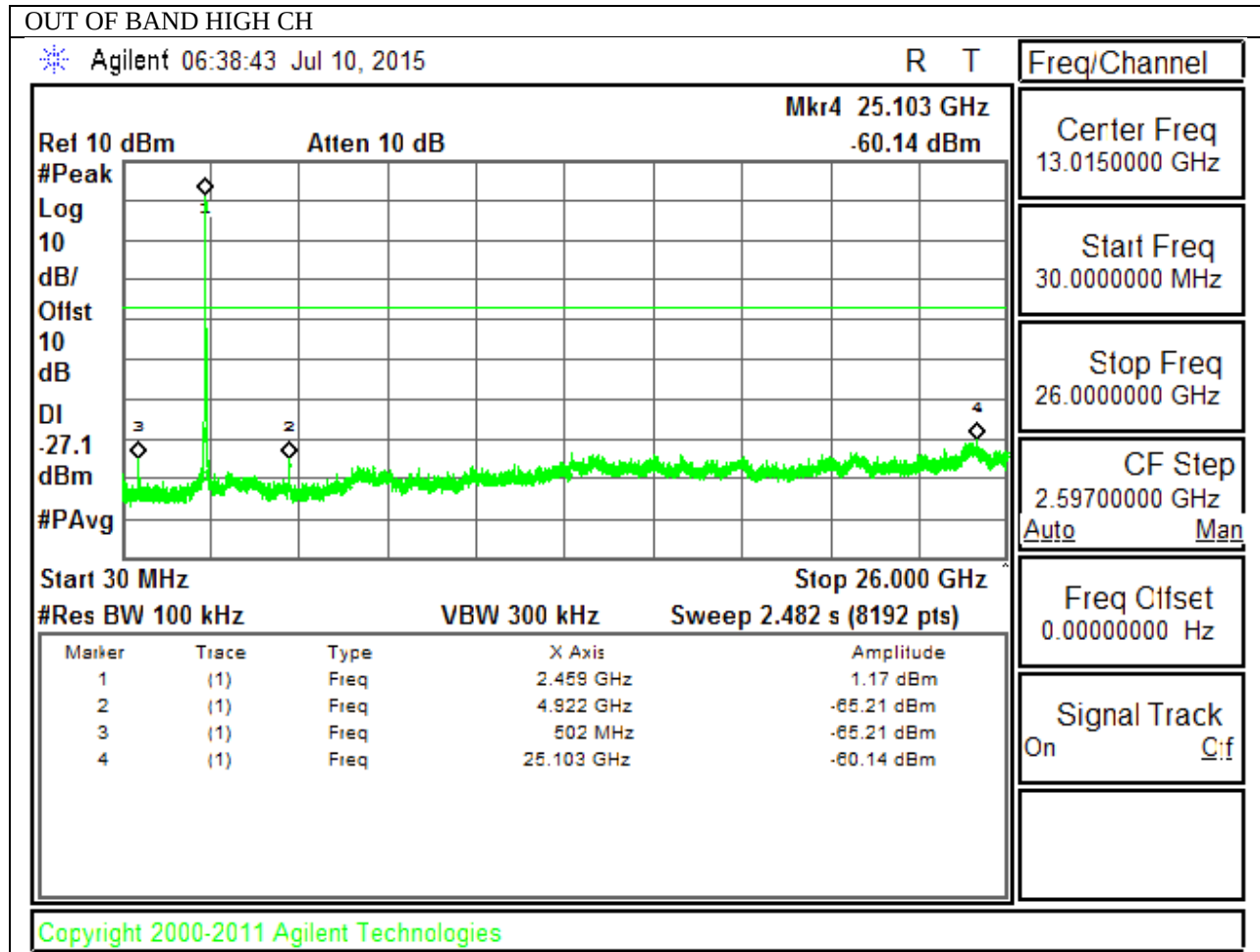
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

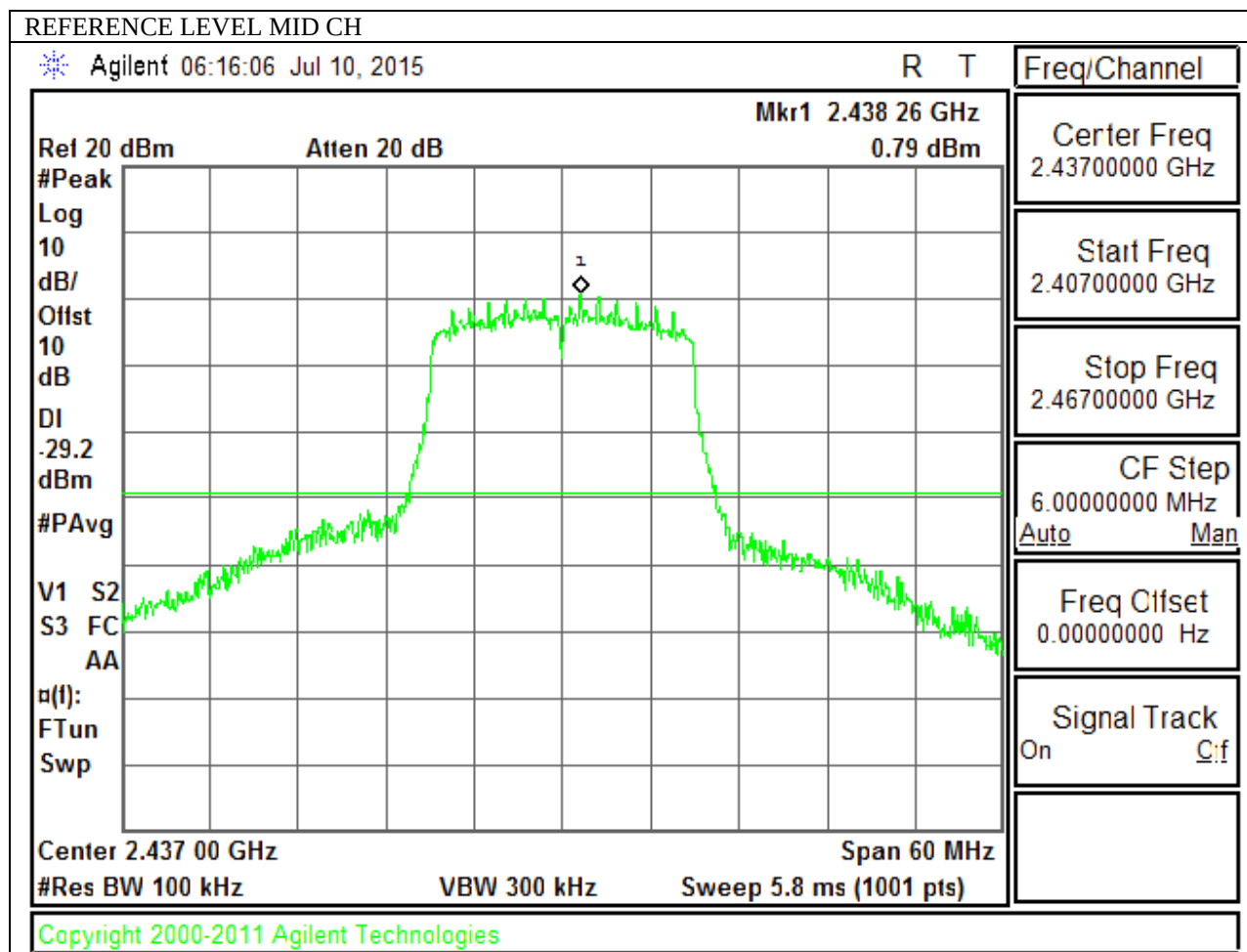




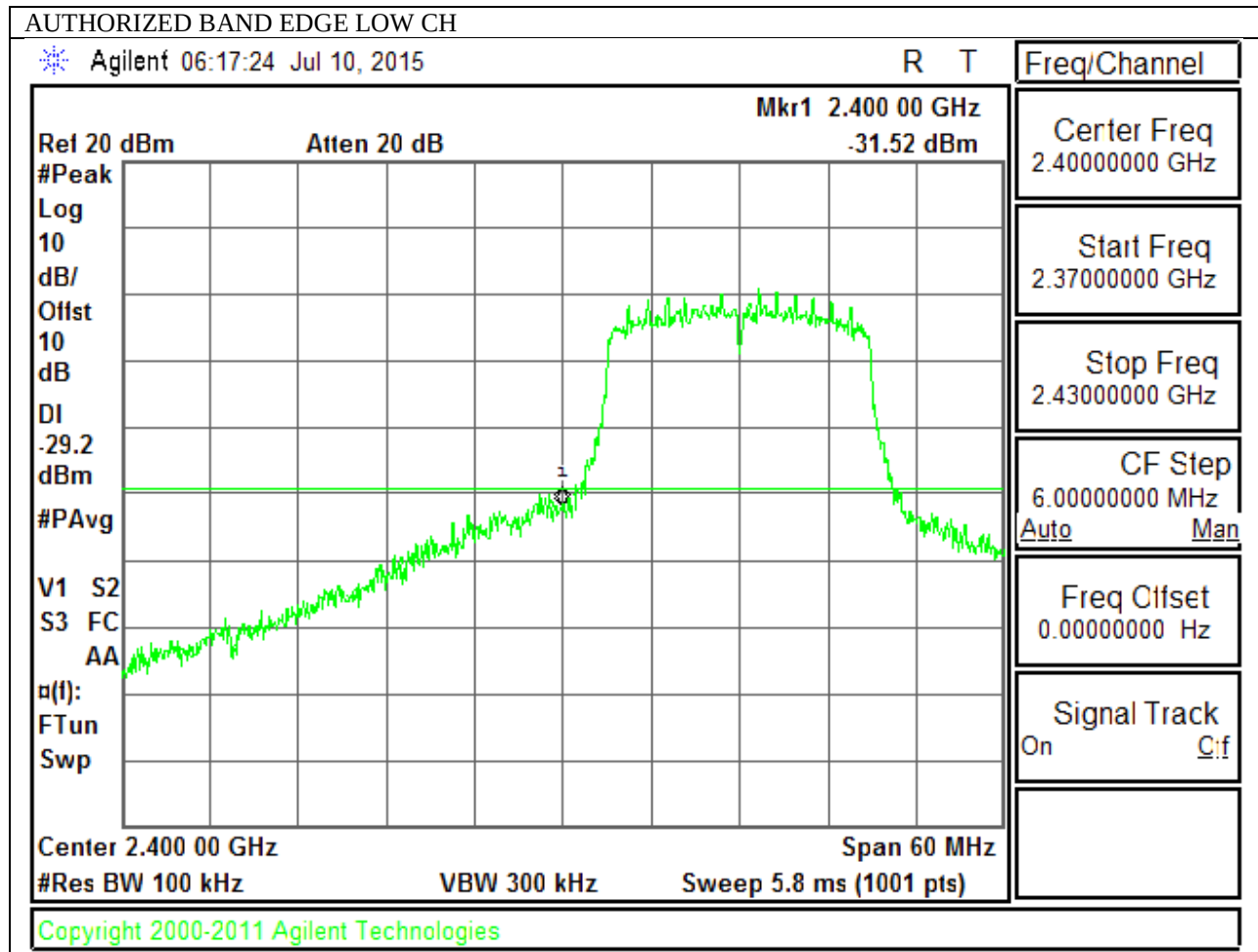


9.5.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

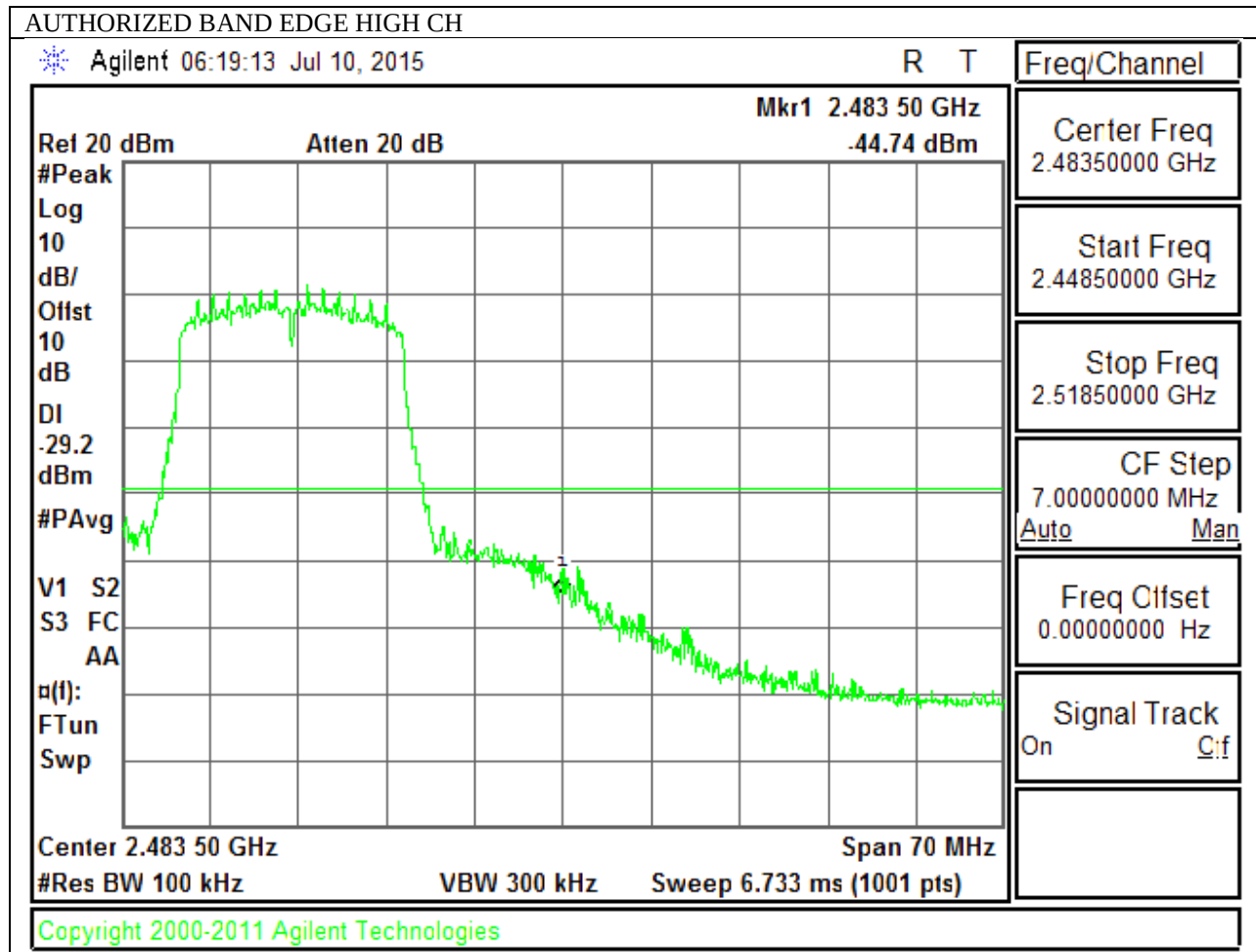
IN-BAND REFERENCE LEVEL



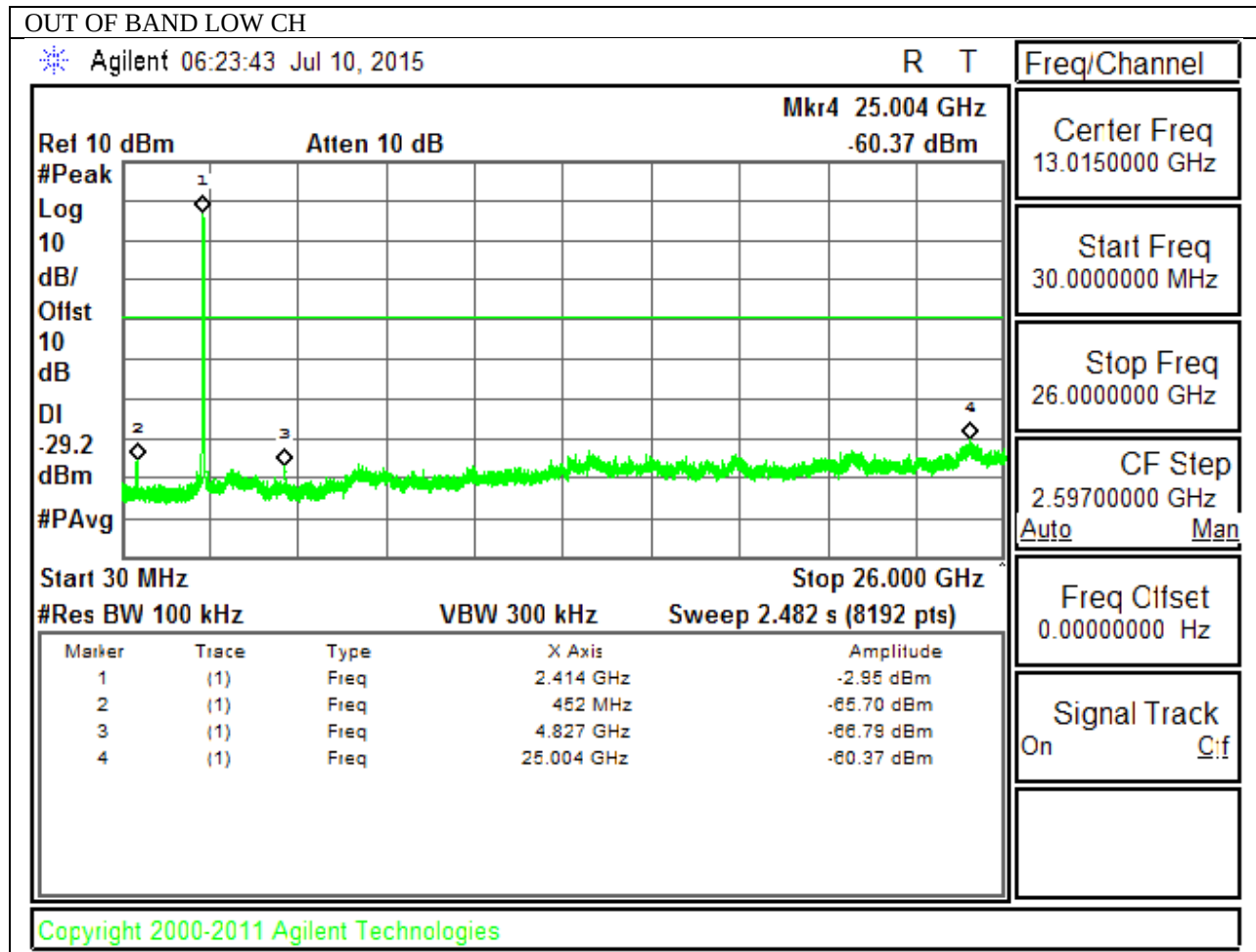
LOW CHANNEL BANDEDGE

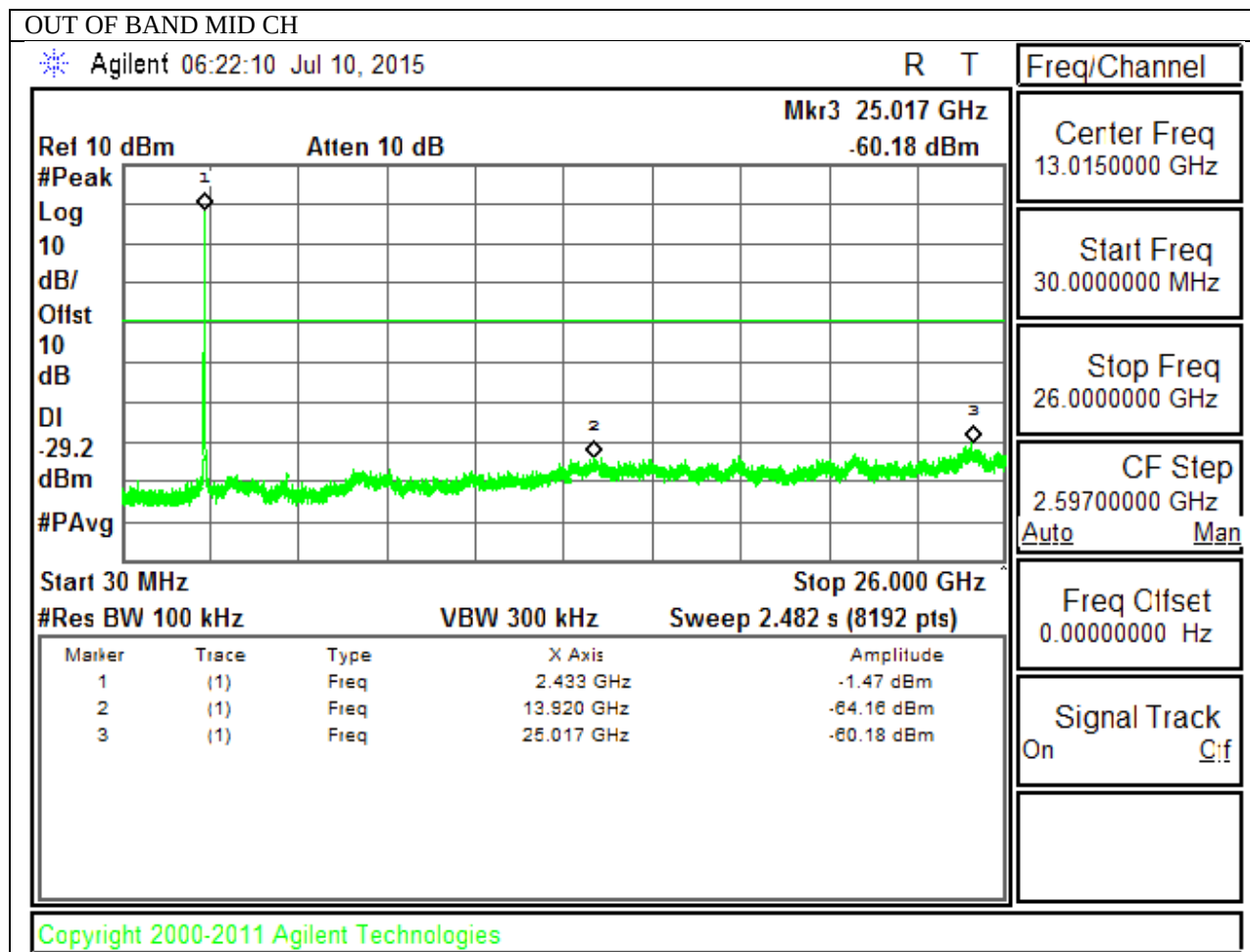


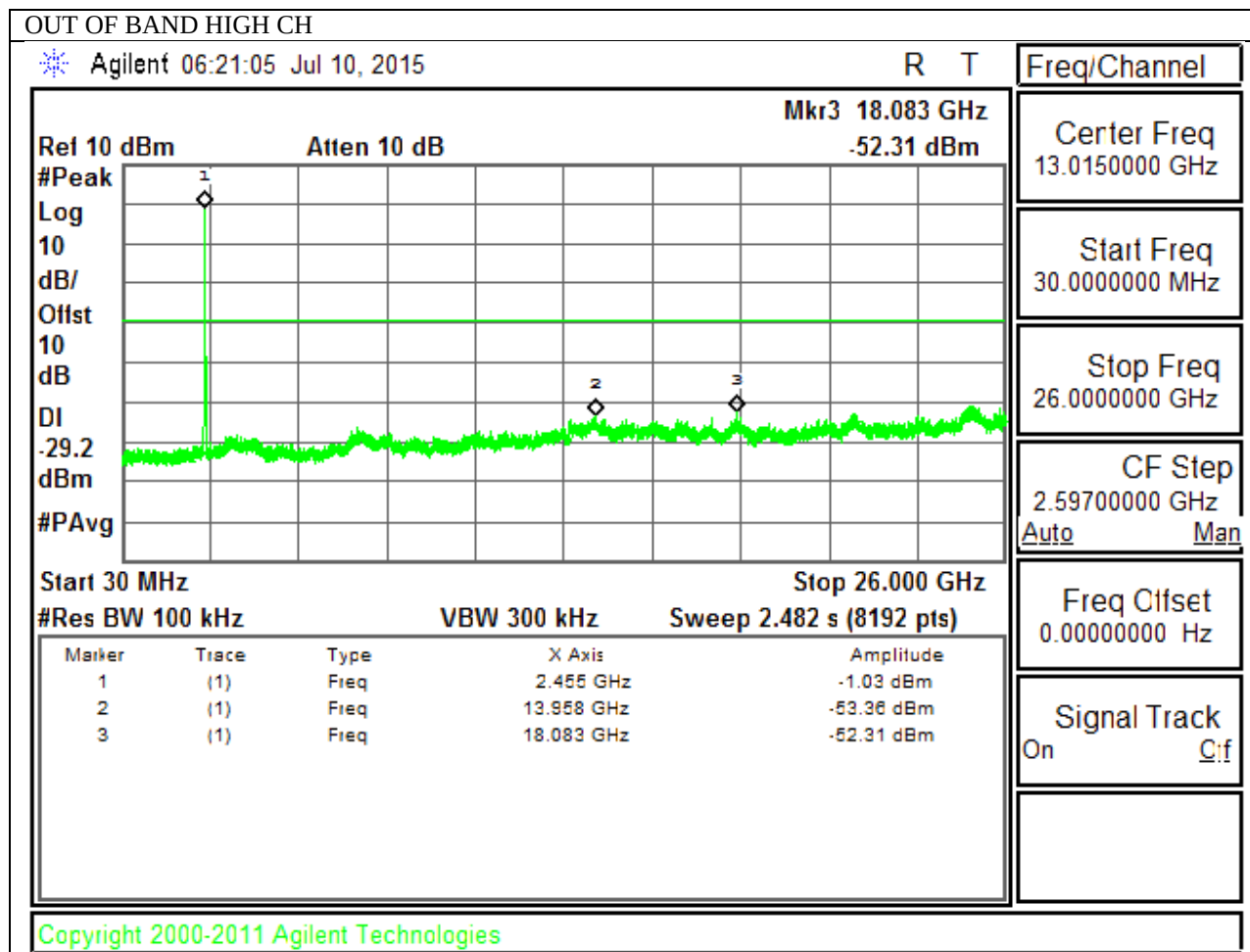
HIGH CHANNEL BANDEDGE



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 (μ V/m) at 3 m	Field Strength Limit (dB μ 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 for below 1GHz and 150cm for above 1GHz. 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 = 0.29dB; N mode = 0.35dB.

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.

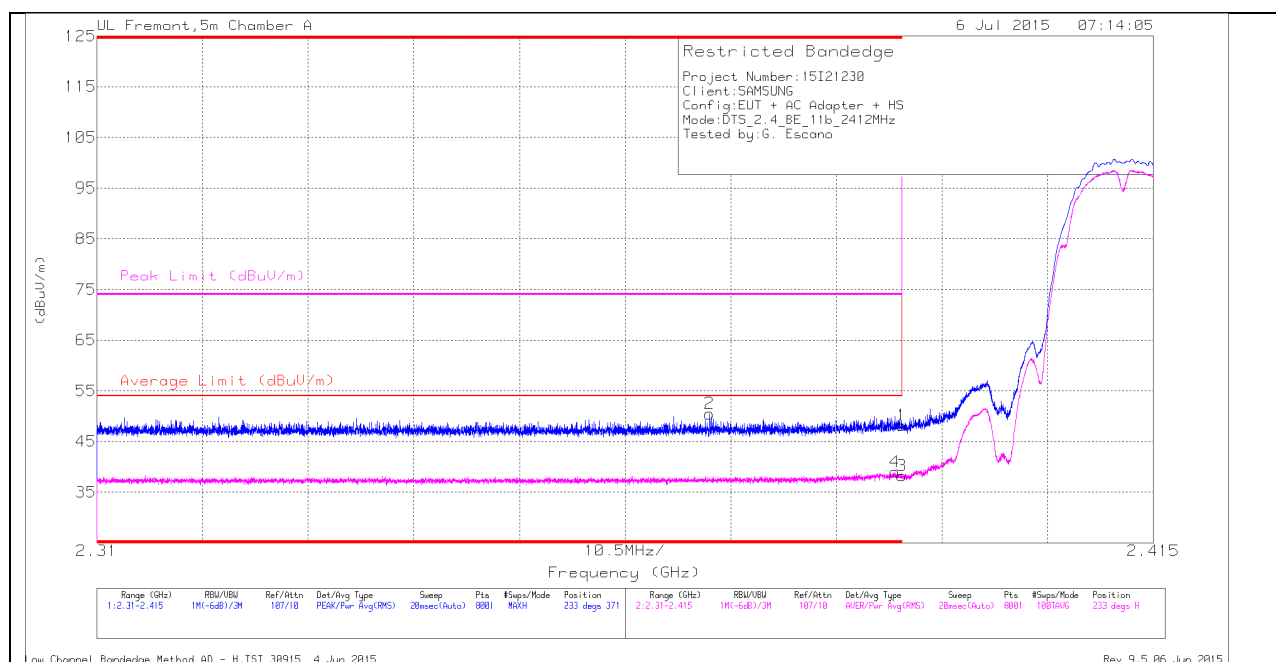
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

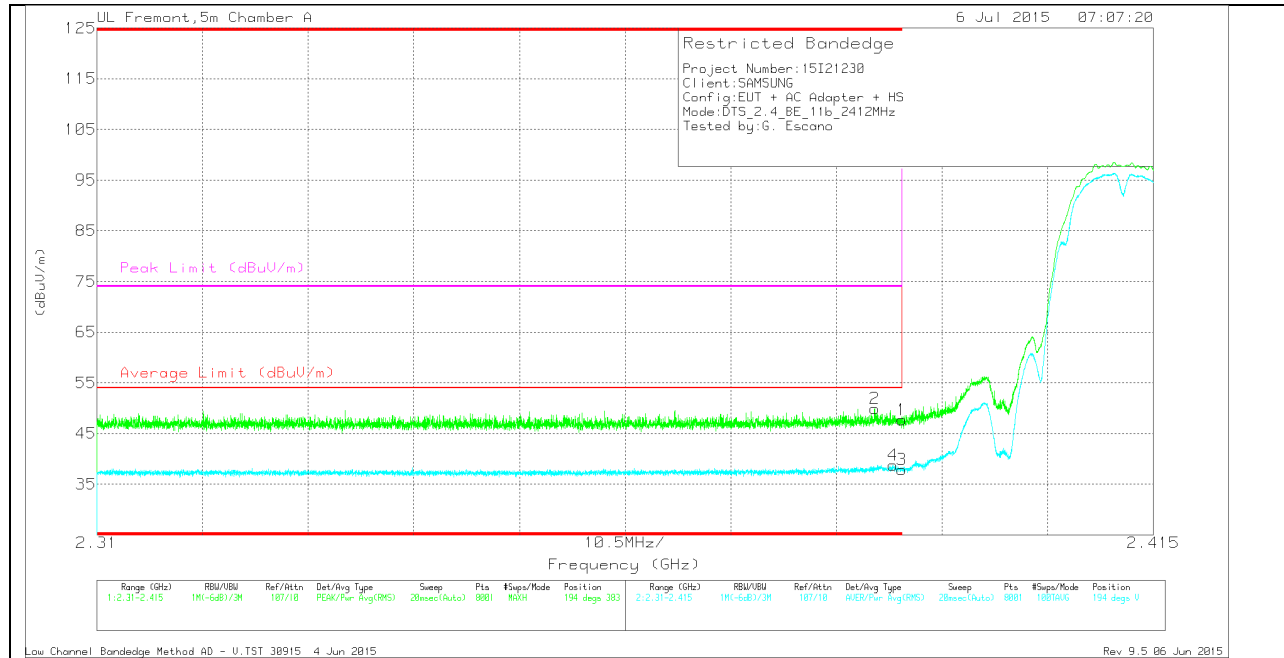
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (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	41.11	Pk	32	-24.9	0	48.21	-	-	74	-25.79	233	371	H
2	* 2.371	43.58	PK	31.9	-25	0	50.48	-	-	74	-23.52	233	371	H
3	* 2.39	31.19	RMS	32	-24.9	0	38.29	54	-15.71	-	-	233	371	H
4	* 2.389	31.87	RMS	32	-24.9	0	38.97	54	-15.03	-	-	233	371	H

VERTICAL PEAK AND AVERAGE PLOT

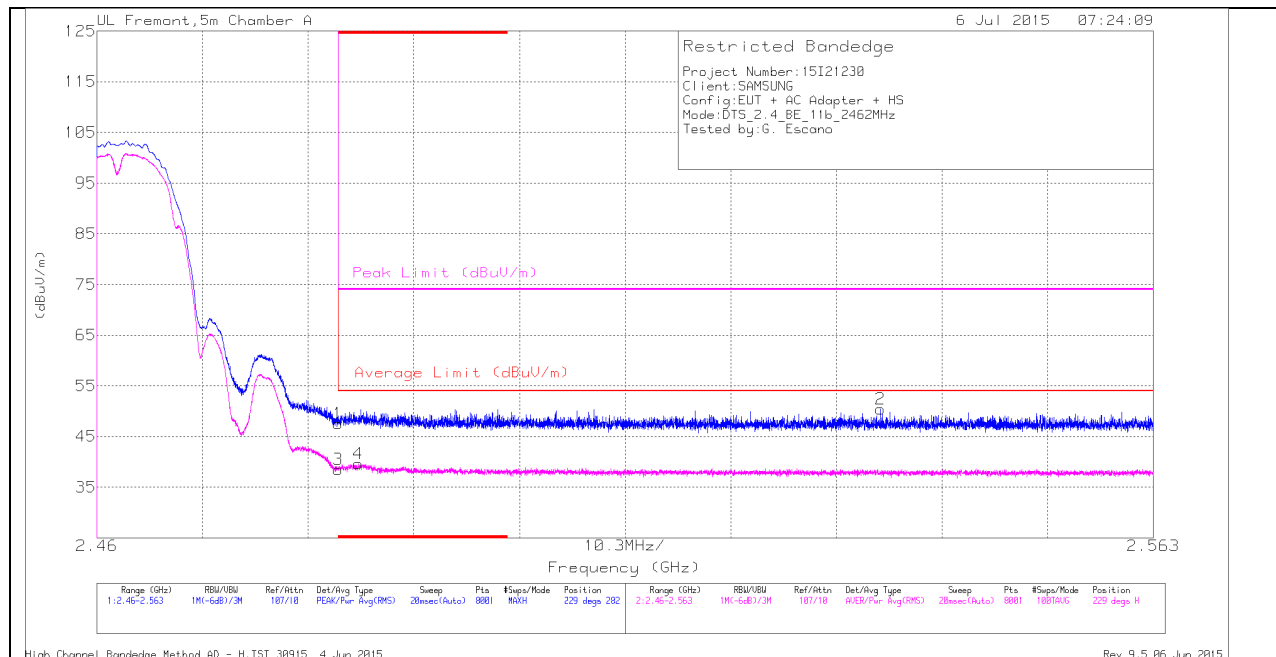


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.56	Pk	32	-24.9	0	47.66	-	-	74	-26.34	194	383	V
2	* 2.387	42.82	Pk	32	-24.9	0	49.92	-	-	74	-24.08	194	383	V
3	* 2.39	30.77	RMS	32	-24.9	0	37.87	54	-16.13	-	-	194	383	V
4	* 2.389	31.65	RMS	32	-24.9	0	38.75	54	-15.25	-	-	194	383	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

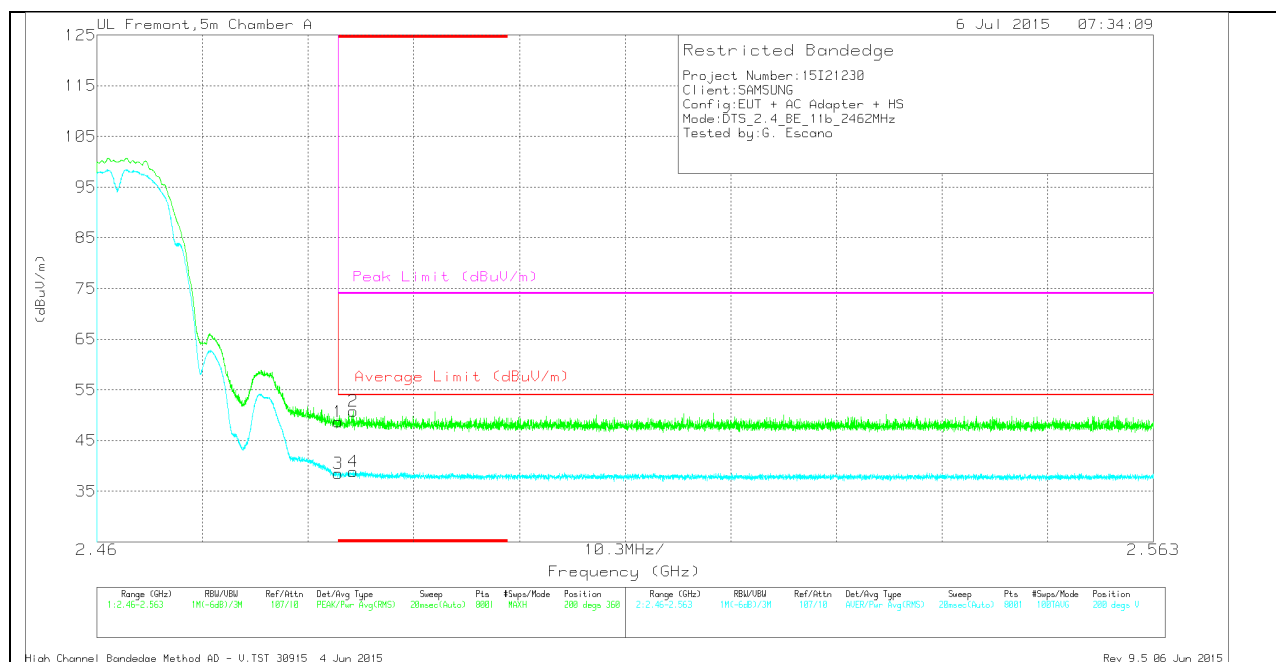
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	40.3	Pk	32.1	-24.8	0	47.6	-	-	74	-26.4	229	282	H
3	* 2.484	31.2	RMS	32.1	-24.8	0	38.5	54	-15.5	-	-	229	282	H
4	* 2.485	32.28	RMS	32.1	-24.8	0	39.58	54	-14.42	-	-	229	282	H
2	2.536	43	Pk	32.1	-24.7	0	50.4	-	-	74	-23.6	229	282	H

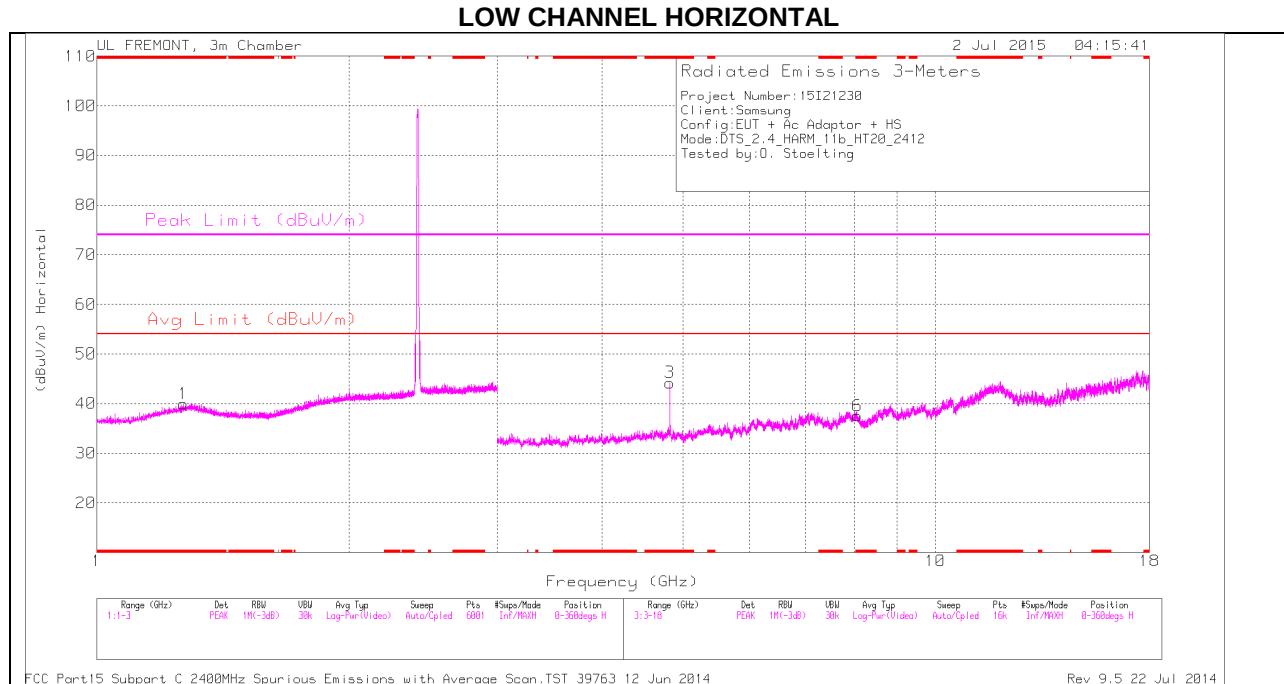
VERTICAL PEAK AND AVERAGE PLOT



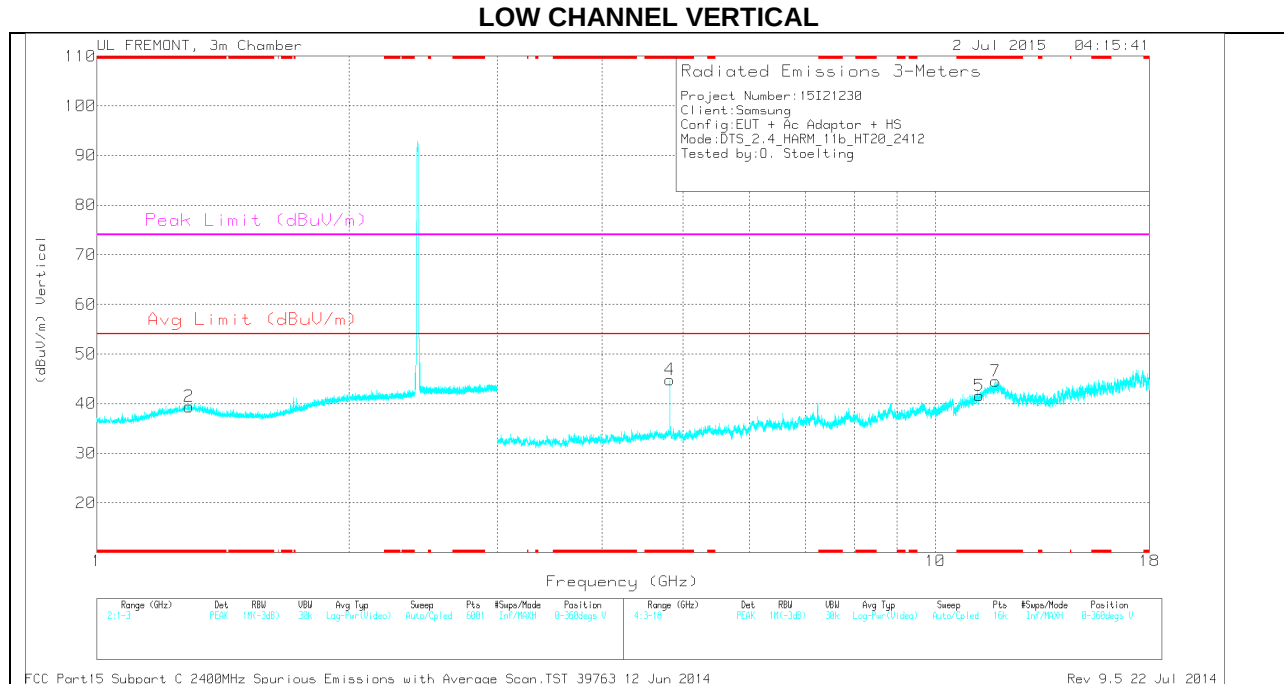
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	41.4	Pk	32.1	-24.8	0	48.7	-	-	74	-25.3	200	360	V
2	* 2.485	43.47	Pk	32.1	-24.8	0	50.77	-	-	74	-23.23	200	360	V
3	* 2.484	31.16	RMS	32.1	-24.8	0	38.46	54	-15.54	-	-	200	360	V
4	* 2.485	31.61	RMS	32.1	-24.8	0	38.91	54	-15.09	-	-	200	360	V

HARMONICS AND SPURIOUS EMISSIONS



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



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/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.269	33.51	PK	29.6	-23.2	39.91	-	-	74	-34.09	0-360	100	H
2	* 1.288	32.7	PK	29.8	-23.1	39.4	-	-	74	-34.6	0-360	100	V
3	* 4.824	39.62	PK	34	-29.4	44.22	-	-	74	-29.78	0-360	200	H
6	* 8.073	28.72	PK	35.7	-26.9	37.52	-	-	74	-36.48	0-360	200	H
4	* 4.824	40.25	PK	34	-29.4	44.85	-	-	74	-29.15	0-360	100	V
5	* 11.281	25.96	PK	38	-22.4	41.56	-	-	74	-32.44	0-360	200	V
7	* 11.8	27.9	PK	39	-22.4	44.5	-	-	74	-29.5	0-360	100	V

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

PK - Peak detector

RADIATED EMISSIONS

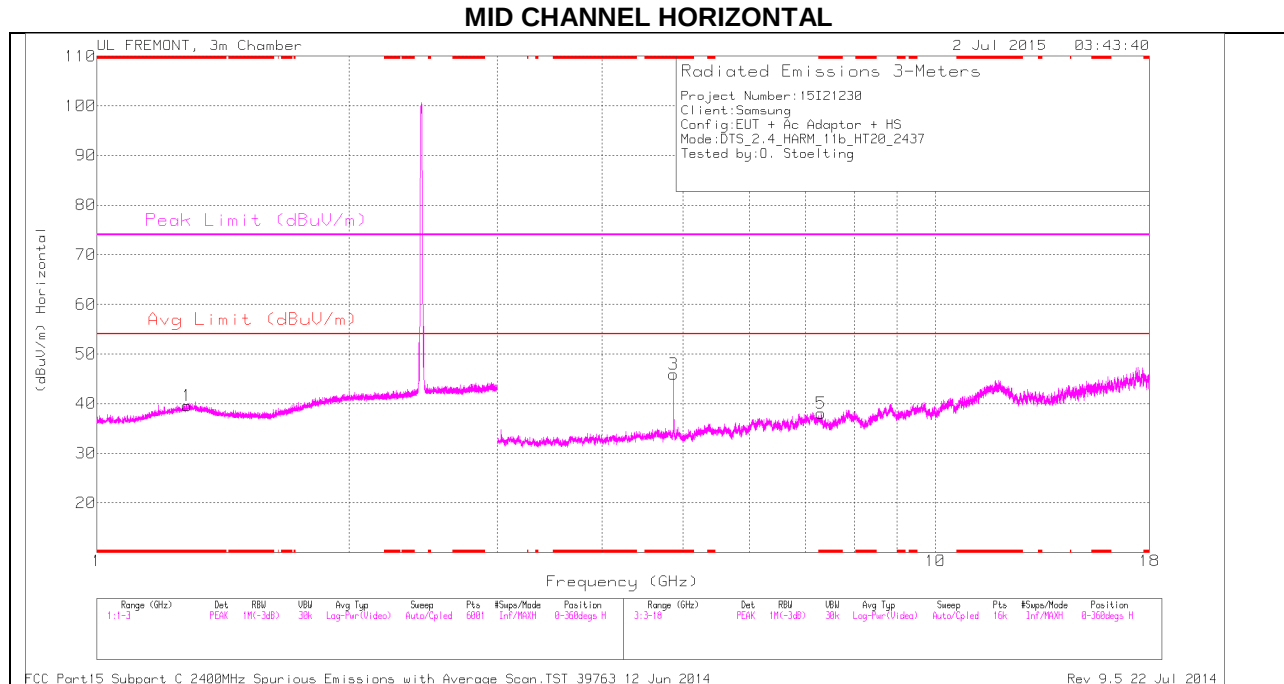
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.268	42.68	PK2	29.6	-23.2	49.08	-	-	74	-24.92	268	386	H
* 1.269	30.63	MAV1	29.6	-23.2	37.03	54	-16.97	-	-	268	386	H
* 1.289	42.46	PK2	29.8	-23.1	49.16	-	-	74	-24.84	268	100	V
* 1.286	30.93	MAV1	29.8	-23.1	37.63	54	-16.37	-	-	268	100	V
* 8.075	38.03	PK2	35.7	-26.9	46.83	-	-	74	-27.17	268	200	H
* 8.075	26.62	MAV1	35.7	-26.9	35.42	54	-18.58	-	-	268	200	H
* 4.824	46.47	PK2	34	-29.4	51.07	-	-	74	-22.93	118	210	V
* 4.824	41.62	MAV1	34	-29.4	46.22	54	-7.78	-	-	118	210	V
* 11.281	36.48	PK2	38	-22.4	52.08	-	-	74	-21.92	268	200	V
* 11.283	24.69	MAV1	38	-22.4	40.29	54	-13.71	-	-	268	200	V
* 11.801	37.67	PK2	39	-22.5	54.17	-	-	74	-19.83	268	100	V
* 11.799	25.61	MAV1	39	-22.4	42.21	54	-11.79	-	-	268	100	V

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

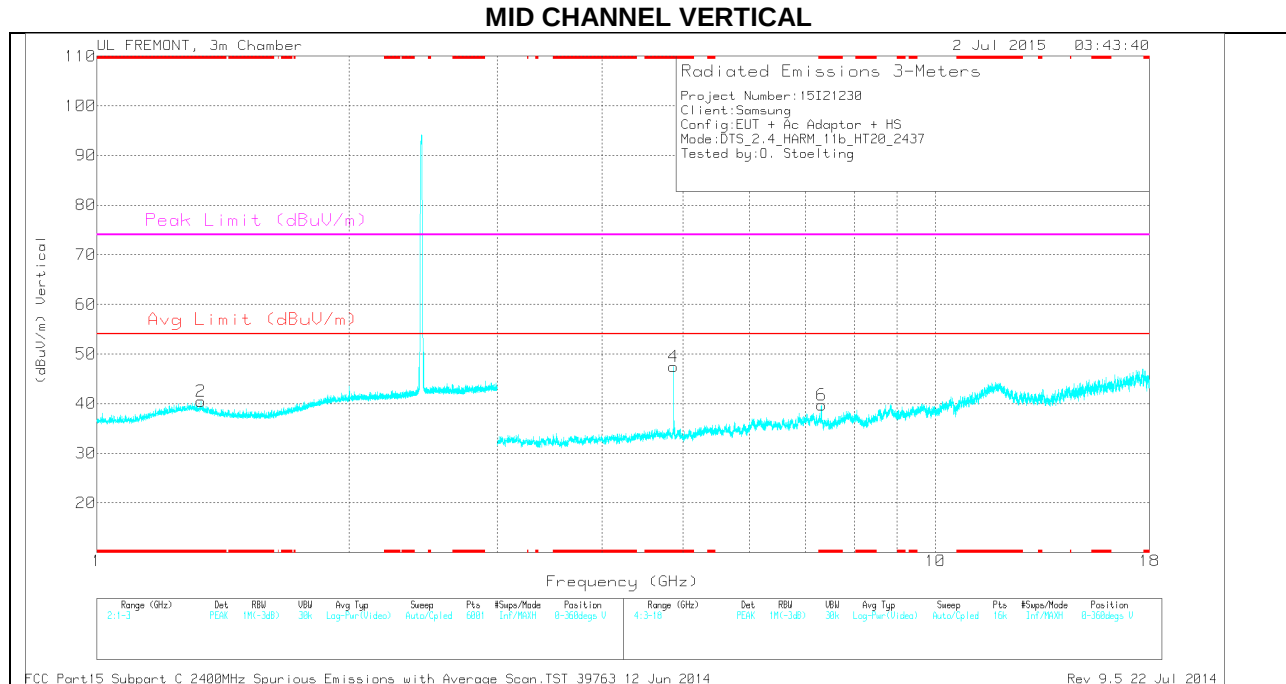
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

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



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



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/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.282	33.04	PK	29.7	-23.2	39.54	-	-	74	-34.46	0-360	100	H
2	* 1.33	34.13	PK	29.5	-23.2	40.43	-	-	74	-33.57	0-360	100	V
3	* 4.874	40.98	PK	34	-29.1	45.88	-	-	74	-28.12	0-360	200	H
5	* 7.309	29.92	PK	35.6	-27.5	38.02	-	-	74	-35.98	0-360	100	H
4	* 4.874	42.54	PK	34	-29.1	47.44	-	-	74	-26.56	0-360	100	V
6	* 7.312	31.49	PK	35.6	-27.4	39.69	-	-	74	-34.31	0-360	100	V

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

PK - Peak detector

RADIATED EMISSIONS

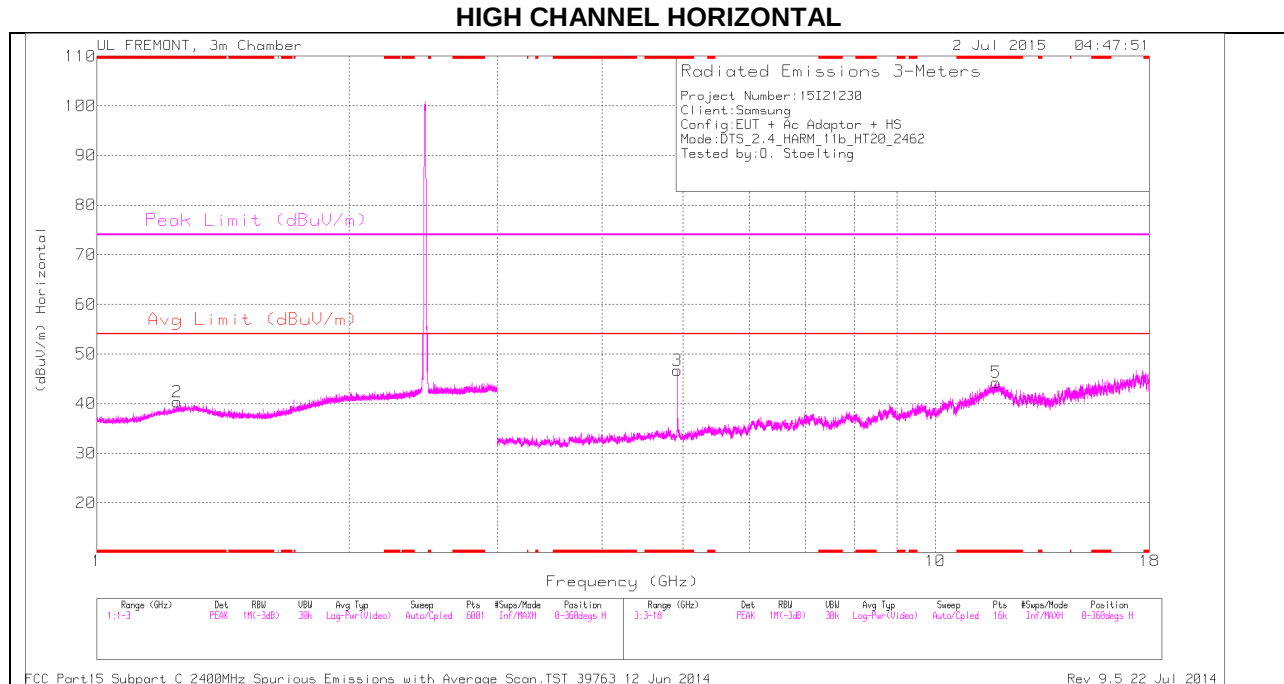
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.281	42.63	PK2	29.7	-23.2	49.13	-	-	74	-24.87	99	108	H
* 1.282	30.62	MAV1	29.7	-23.2	37.12	54	-16.88	-	-	99	108	H
* 1.329	42.53	PK2	29.5	-23.2	48.83	-	-	74	-25.17	99	100	V
* 1.331	31.06	MAV1	29.5	-23.2	37.36	54	-16.64	-	-	99	100	V
* 4.874	44.84	PK2	34	-29.1	49.74	-	-	74	-24.26	142	174	H
* 4.874	40.28	MAV1	34	-29.1	45.18	54	-8.82	-	-	142	174	H
* 7.31	39.18	PK2	35.6	-27.4	47.38	-	-	74	-26.62	99	100	H
* 7.31	28.07	MAV1	35.6	-27.5	36.17	54	-17.83	-	-	99	100	H
* 4.874	47.87	PK2	34	-29.1	52.77	-	-	74	-21.23	133	237	V
* 4.874	43.99	MAV1	34	-29.1	48.89	54	-5.11	-	-	133	237	V
* 7.313	40.55	PK2	35.6	-27.4	48.75	-	-	74	-25.25	114	301	V
* 7.312	30.85	MAV1	35.6	-27.4	39.05	54	-14.95	-	-	114	301	V

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

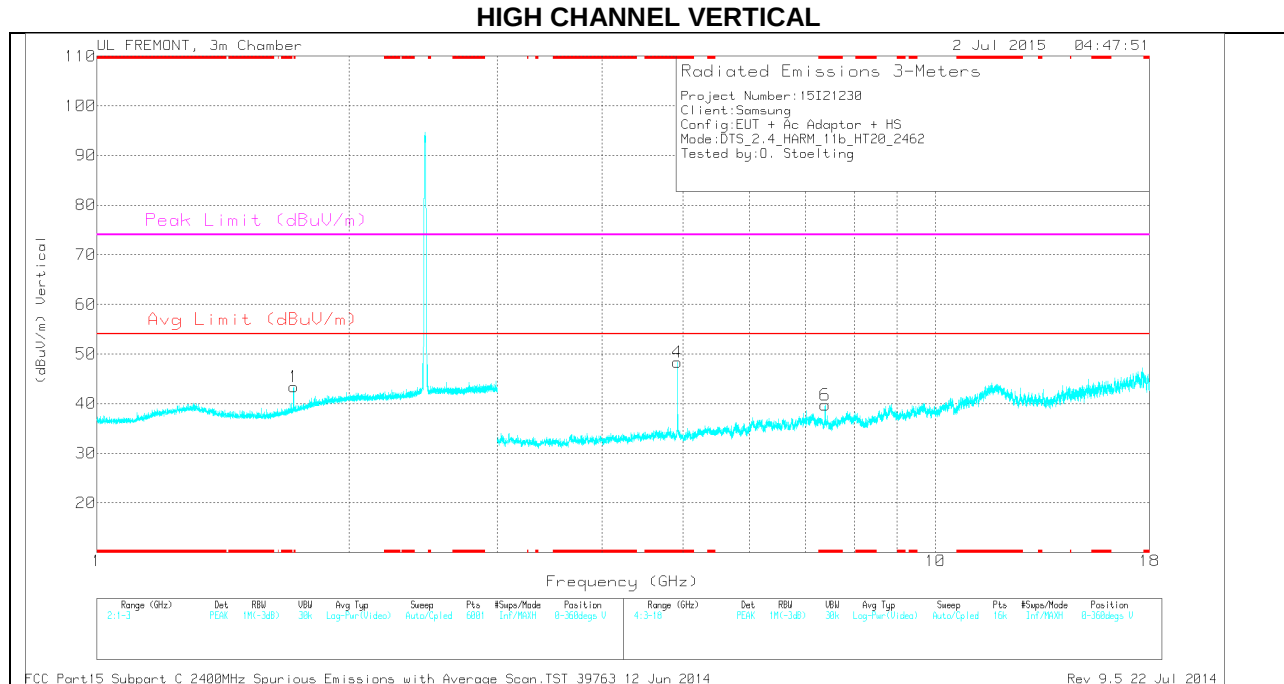
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

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



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



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/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.246	34.09	PK	29.4	-23.2	40.29	-	-	74	-33.71	0-360	200	H
3	* 4.924	42.29	PK	34	-29.6	46.69	-	-	74	-27.31	0-360	100	H
5	* 11.809	27.76	PK	39	-22.5	44.26	-	-	74	-29.74	0-360	100	H
4	* 4.924	43.9	PK	34	-29.6	48.3	-	-	74	-25.7	0-360	100	V
6	* 7.386	31.21	PK	35.6	-27.1	39.71	-	-	74	-34.29	0-360	100	V
1	1.716	37.04	PK	29.2	-22.8	43.44	-	-	-	-	0-360	200	V

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

PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.247	43.23	PK2	29.4	-23.2	49.43	-	-	74	-24.57	119	200	H
* 1.245	31.09	MAV1	29.4	-23.2	37.29	54	-16.71	-	-	119	200	H
* 4.924	46.27	PK2	34	-29.6	50.67	-	-	74	-23.33	271	100	H
* 4.924	41.36	MAV1	34	-29.6	45.76	54	-8.24	-	-	271	100	H
* 11.807	37	PK2	39	-22.5	53.5	-	-	74	-20.5	119	100	H
* 11.809	25.63	MAV1	39	-22.5	42.13	54	-11.87	-	-	119	100	H
* 4.924	47.91	PK2	34	-29.6	52.31	-	-	74	-21.69	133	313	V
* 4.924	44.4	MAV1	34	-29.6	48.8	54	-5.2	-	-	133	313	V
* 7.387	40.86	PK2	35.6	-27.1	49.36	-	-	74	-24.64	119	164	V
* 7.387	31.42	MAV1	35.6	-27.1	39.92	54	-14.08	-	-	119	164	V
1.715	30.36	MAV1	29.2	-22.7	36.86	-	-	-	-	316	270	V
1.718	42.84	PK2	29.2	-22.7	49.34	-	-	-	-	316	270	V

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

PK2 - KDB558074 Method: Maximum Peak

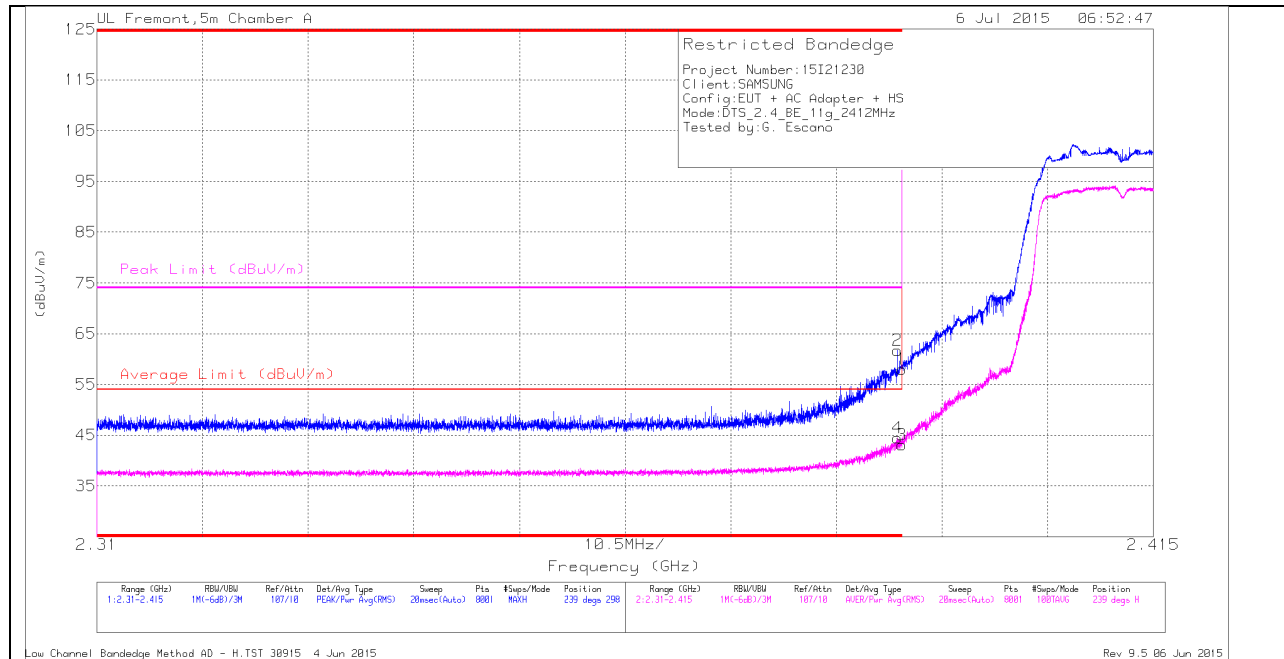
MAV1 - KDB558074 Option 1 Maximum RMS Average

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

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

RESTRICTED BANDEDGE (LOW CHANNEL)

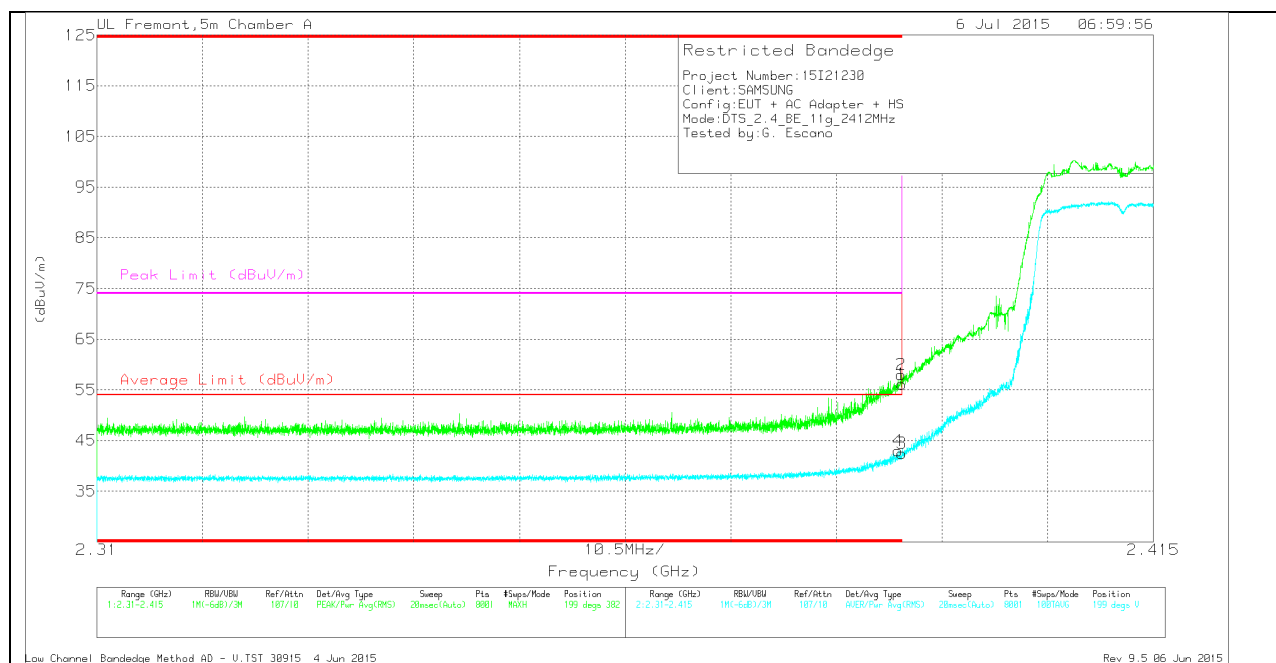
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	50.91	Pk	32	-24.9	0	58.01	-	-	74	-15.99	239	298	H
2	* 2.39	54.59	Pk	32	-24.9	0	61.69	-	-	74	-12.31	239	298	H
3	* 2.39	35.71	RMS	32	-24.9	.29	43.1	54	-10.9	-	-	239	298	H
4	* 2.39	37.06	RMS	32	-24.9	.29	44.45	54	-9.55	-	-	239	298	H

VERTICAL PEAK AND AVERAGE PLOT

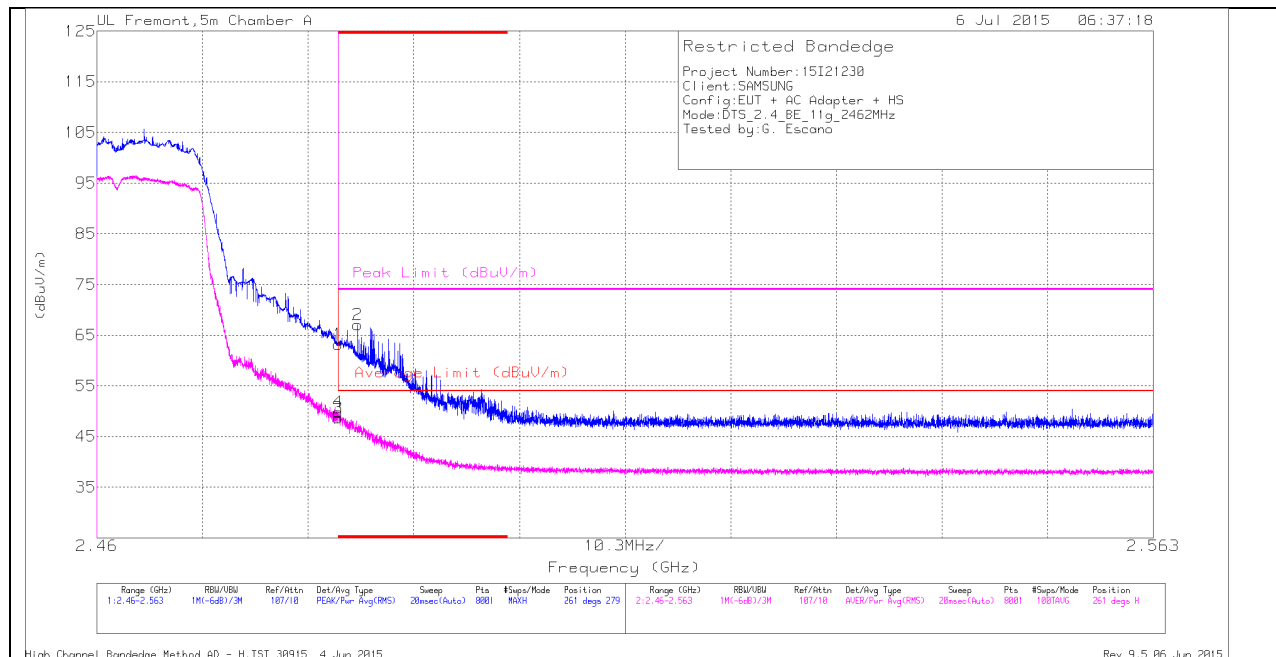


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	49.04	Pk	32	-24.9	0	56.14	-	-	74	-17.86	199	382	V
2	* 2.39	50.87	Pk	32	-24.9	0	57.97	-	-	74	-16.03	199	382	V
3	* 2.39	35.06	RMS	32	-24.9	.29	42.45	54	-11.55	-	-	199	382	V
4	* 2.39	35.54	RMS	32	-24.9	.29	42.93	54	-11.07	-	-	199	382	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

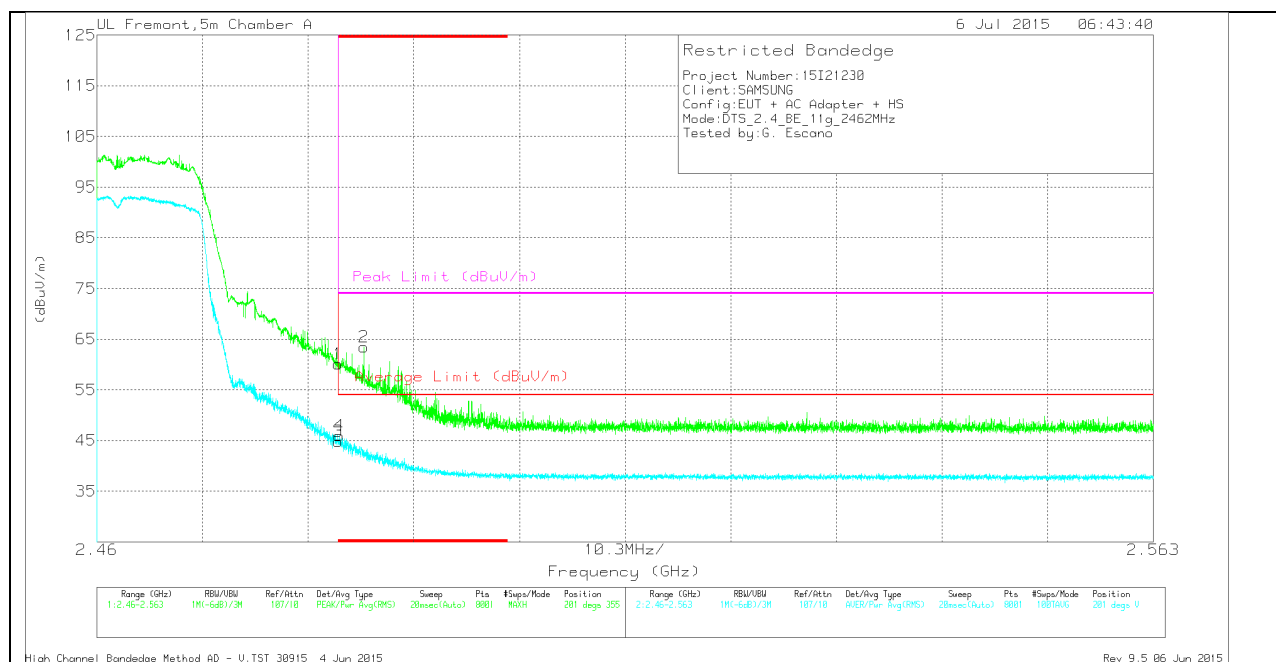
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	55.95	Pk	32.1	-24.8	0	63.25	-	-	74	-10.75	261	279	H
2	* 2.485	59.74	Pk	32.1	-24.8	0	67.04	-	-	74	-6.96	261	279	H
3	* 2.484	41.05	RMS	32.1	-24.8	.29	48.64	54	-5.36	-	-	261	279	H
4	* 2.484	42.18	RMS	32.1	-24.8	.29	49.77	54	-4.23	-	-	261	279	H

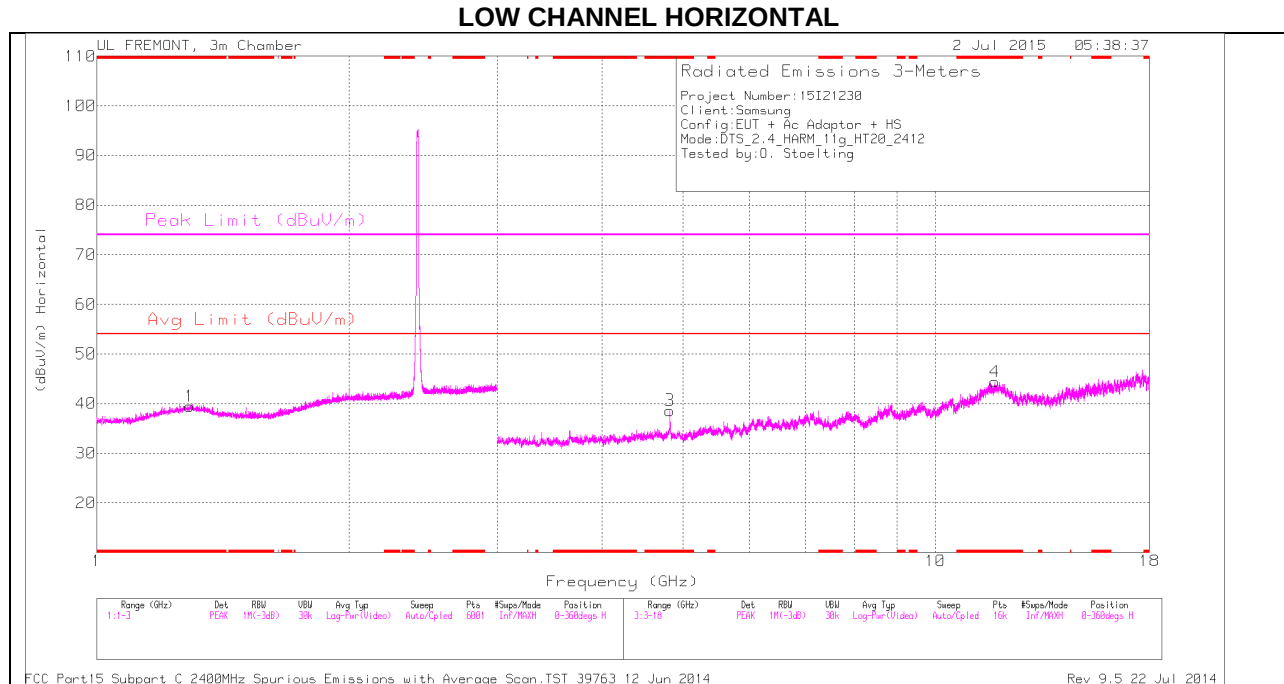
VERTICAL PEAK AND AVERAGE PLOT



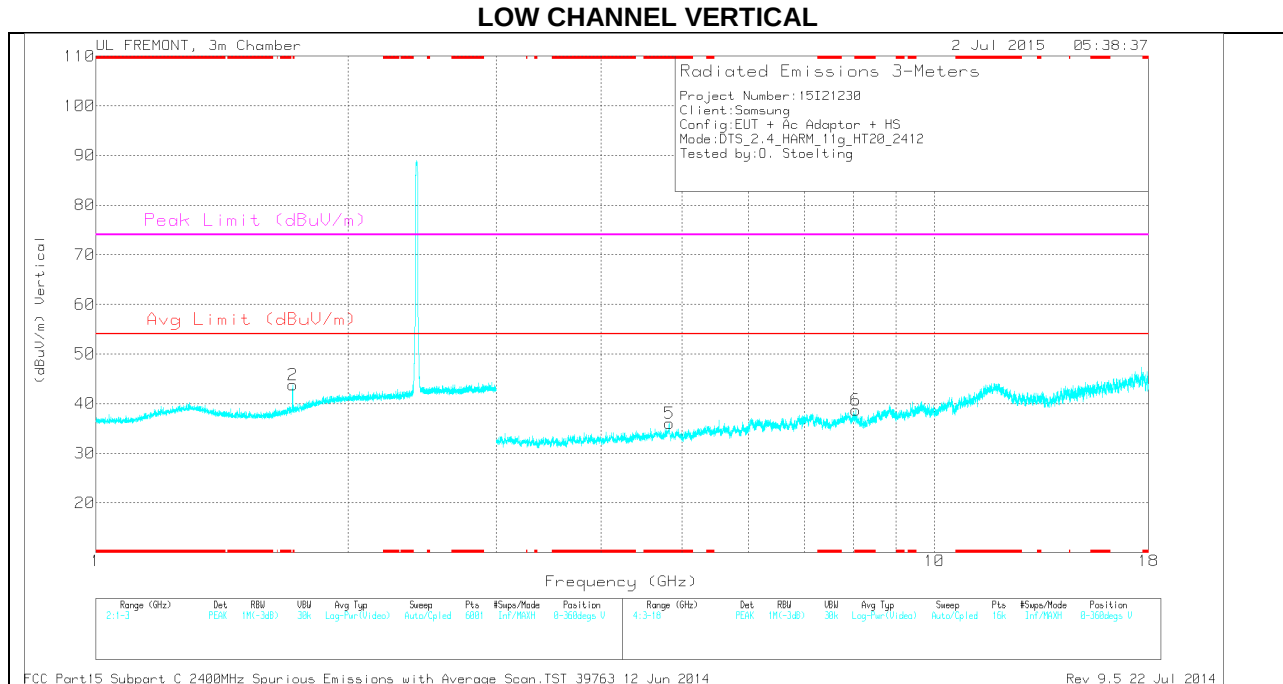
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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
1	* 2.484	52.75	Pk	32.1	-24.8	60.05	-	-	74	-13.95	201	355	V
2	* 2.486	56.16	Pk	32.1	-24.8	63.46	-	-	74	-10.54	201	355	V
3	* 2.484	37.55	RMS	32.1	-24.8	44.85	54	-9.15	-	-	201	355	V
4	* 2.484	38.69	RMS	32.1	-24.8	45.99	54	-8.01	-	-	201	355	V

HARMONICS AND SPURIOUS EMISSIONS



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



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/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	* 1.29	32.75	PK	29.8	-23.1	0	39.45	-	-	74	-34.55	0-360	100	H
3	* 4.824	34.03	PK	34	-29.4	0	38.63	-	-	74	-35.37	0-360	200	H
4	* 11.779	27.92	PK	39	-22.5	0	44.42	-	-	74	-29.58	0-360	200	H
5	* 4.827	31.4	PK	34	-29.4	0	36	-	-	74	-38	0-360	200	V
6	* 8.054	29.83	PK	35.7	-26.8	0	38.73	-	-	74	-35.27	0-360	200	V
2	1.716	37.35	PK	29.2	-22.8	0	43.75	-	-	-	-	0-360	100	V

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

PK - Peak detector

RADIATED EMISSIONS

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.29	42.51	PK2	29.8	-23.1	0	49.21	-	-	74	-24.79	255	100	H
* 1.289	30.9	MAV1	29.8	-23.1	.29	37.89	54	-16.11	-	-	255	100	H
* 4.824	42.76	PK2	34	-29.4	0	47.36	-	-	74	-26.64	146	247	H
* 4.824	30.16	MAV1	34	-29.4	.29	35.05	54	-18.95	-	-	146	247	H
* 11.779	37.05	PK2	39	-22.5	0	53.55	-	-	74	-20.45	255	200	H
* 11.778	25.43	MAV1	39	-22.5	.29	42.22	54	-11.78	-	-	255	200	H
* 4.829	41.48	PK2	34	-29.3	0	46.18	-	-	74	-27.82	255	194	V
* 4.826	29.33	MAV1	34	-29.4	.29	34.22	54	-19.78	-	-	255	194	V
* 8.053	38.07	PK2	35.7	-26.8	0	46.97	-	-	74	-27.03	255	200	V
* 8.054	26.25	MAV1	35.7	-26.8	.29	35.44	54	-18.56	-	-	255	200	V
1.715	30.41	MAV1	29.2	-22.7	.29	37.2	-	-	-	-	64	180	V
1.716	42.26	PK2	29.2	-22.8	0	48.66	-	-	-	-	64	180	V

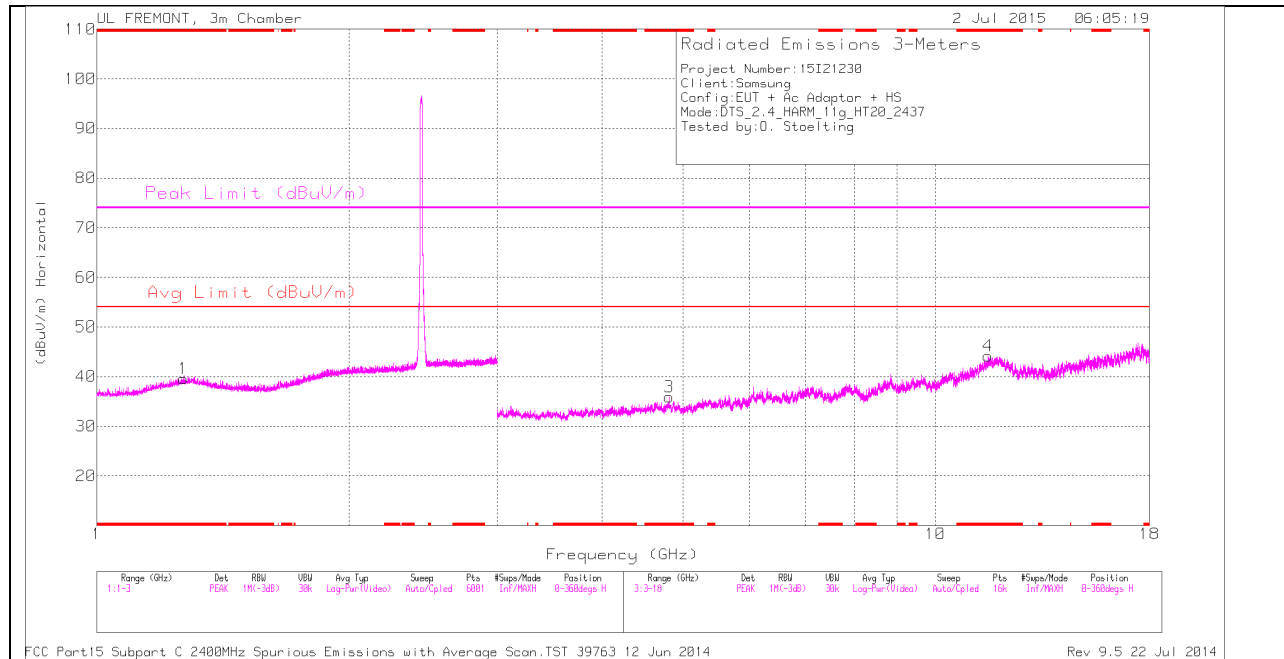
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

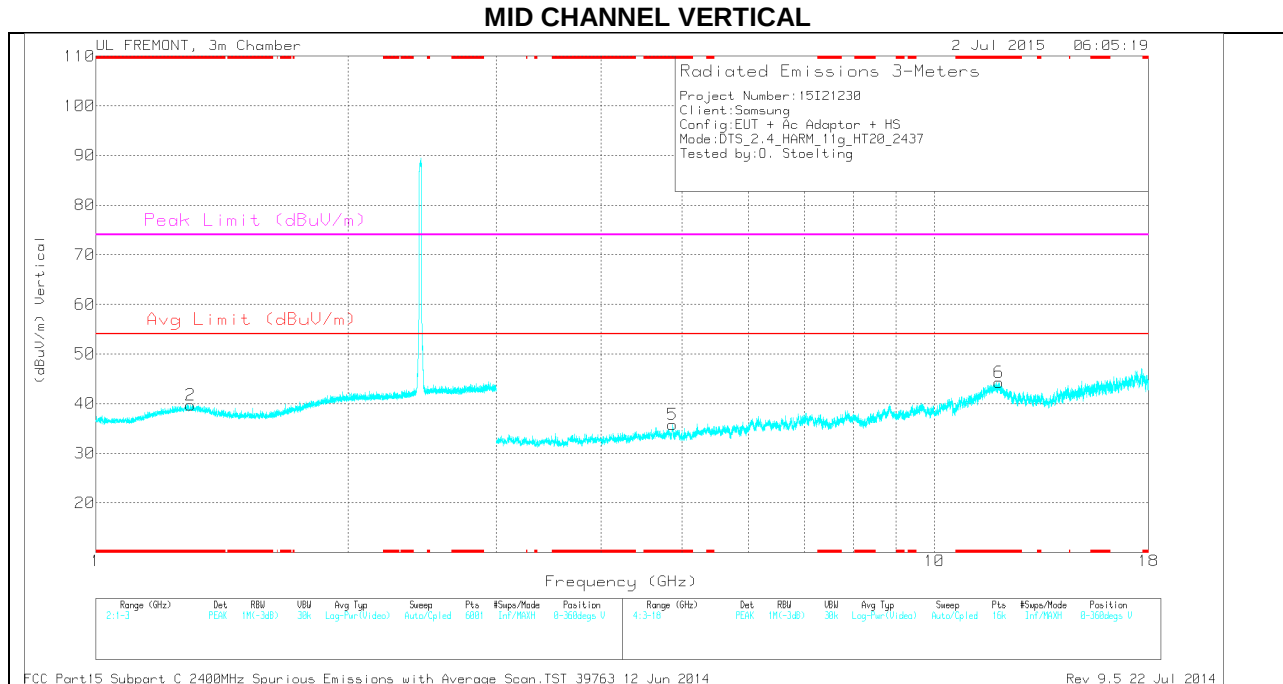
MAV1 - KDB558074 Option 1 Maximum RMS Average

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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.



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/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	* 1.267	33.24	PK	29.6	-23.2	0	39.64	-	-	74	-34.36	0-360	200	H
2	* 1.296	32.98	PK	29.9	-23.2	0	39.68	-	-	74	-34.32	0-360	100	V
3	* 4.811	31.26	PK	34	-29.4	0	35.86	-	-	74	-38.14	0-360	200	H
4	* 11.557	28.05	PK	38.5	-22.4	0	44.15	-	-	74	-29.85	0-360	100	H
5	* 4.873	30.85	PK	34	-29.1	0	35.75	-	-	74	-38.25	0-360	200	V
6	* 11.929	28.33	PK	39.1	-23.2	0	44.23	-	-	74	-29.77	0-360	200	V

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

PK - Peak detector

RADIATED EMISSIONS

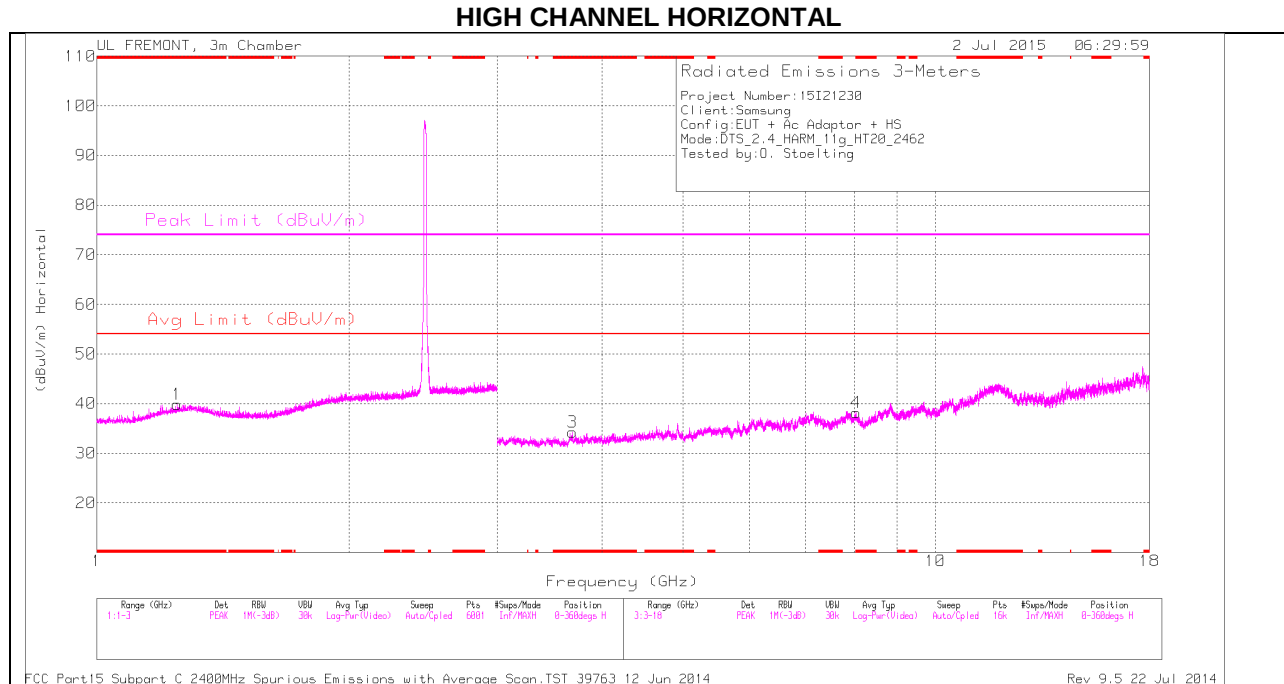
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.267	42.78	PK2	29.6	-23.2	0	49.18	-	-	74	-24.82	37	200	H
* 1.266	31.06	MAV1	29.6	-23.2	.29	37.75	54	-16.25	-	-	37	200	H
* 1.295	42.54	PK2	29.8	-23.2	0	49.14	-	-	74	-24.86	37	100	V
* 1.296	30.98	MAV1	29.8	-23.2	.29	37.87	54	-16.13	-	-	37	100	V
* 11.558	36.55	PK2	38.5	-22.3	0	52.75	-	-	74	-21.25	37	100	H
* 11.558	25.31	MAV1	38.5	-22.3	.29	41.8	54	-12.2	-	-	37	100	H
* 4.809	40.14	PK2	34	-29.5	0	44.64	-	-	74	-29.36	37	200	H
* 4.81	28.49	MAV1	34	-29.5	.29	33.28	54	-20.72	-	-	37	200	H
* 11.929	38.06	PK2	39.1	-23.2	0	53.96	-	-	74	-20.04	37	112	V
* 11.927	25.55	MAV1	39.1	-23.2	.29	41.74	54	-12.26	-	-	37	112	V
* 4.871	40.25	PK2	34	-29.1	0	45.15	-	-	74	-28.85	37	200	V
* 4.871	28.86	MAV1	34	-29.1	.29	34.05	54	-19.95	-	-	37	200	V

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

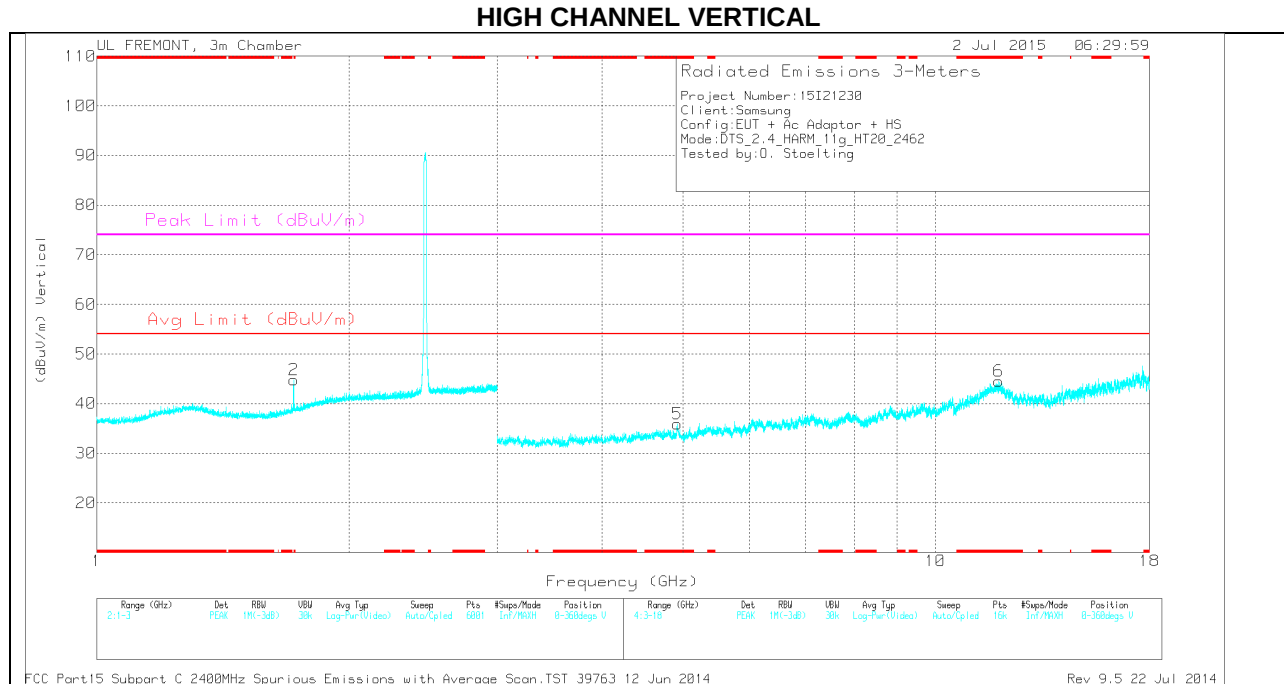
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

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



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



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/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	* 1.247	33.6	PK	29.4	-23.2	0	39.8	-	-	74	-34.2	0-360	200	H
3	* 3.689	31.47	PK	33	-30.2	0	34.27	-	-	74	-39.73	0-360	100	H
4	* 8.042	29.34	PK	35.7	-26.8	0	38.24	-	-	74	-35.76	0-360	200	H
5	* 4.919	31.35	PK	34	-29.5	0	35.85	-	-	74	-38.15	0-360	200	V
6	* 11.9	28.29	PK	39.1	-22.8	0	44.59	-	-	74	-29.41	0-360	200	V
2	1.717	38.35	PK	29.2	-22.8	0	44.75	-	-	-	-	0-360	100	V

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

PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.248	42.79	PK2	29.4	-23.2	0	48.99	-	-	74	-25.01	299	200	H
* 1.247	31.15	MAV1	29.4	-23.2	.29	37.64	54	-16.36	-	-	299	200	H
* 8.042	37.93	PK2	35.7	-26.8	0	46.83	-	-	74	-27.17	299	200	H
* 8.043	26.68	MAV1	35.7	-26.8	.29	35.87	54	-18.13	-	-	299	200	H
* 3.689	40.77	PK2	33	-30.2	0	43.57	-	-	74	-30.43	299	100	H
* 3.691	28.7	MAV1	33	-30.2	.29	31.79	54	-22.21	-	-	299	100	H
* 11.901	36.83	PK2	39.1	-22.7	0	53.23	-	-	74	-20.77	299	382	V
* 11.898	25.13	MAV1	39.1	-22.8	.29	41.72	54	-12.28	-	-	299	382	V
* 4.921	39.91	PK2	34	-29.6	0	44.31	-	-	74	-29.69	299	200	V
* 4.917	28.71	MAV1	34	-29.5	.29	33.5	54	-20.5	-	-	299	200	V
1.717	42.22	PK2	29.2	-22.8	0	48.62	-	-	-	-	39	242	V
1.717	30.35	MAV1	29.2	-22.8	.29	37.04	-	-	-	-	39	242	V

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

PK2 - KDB558074 Method: Maximum Peak

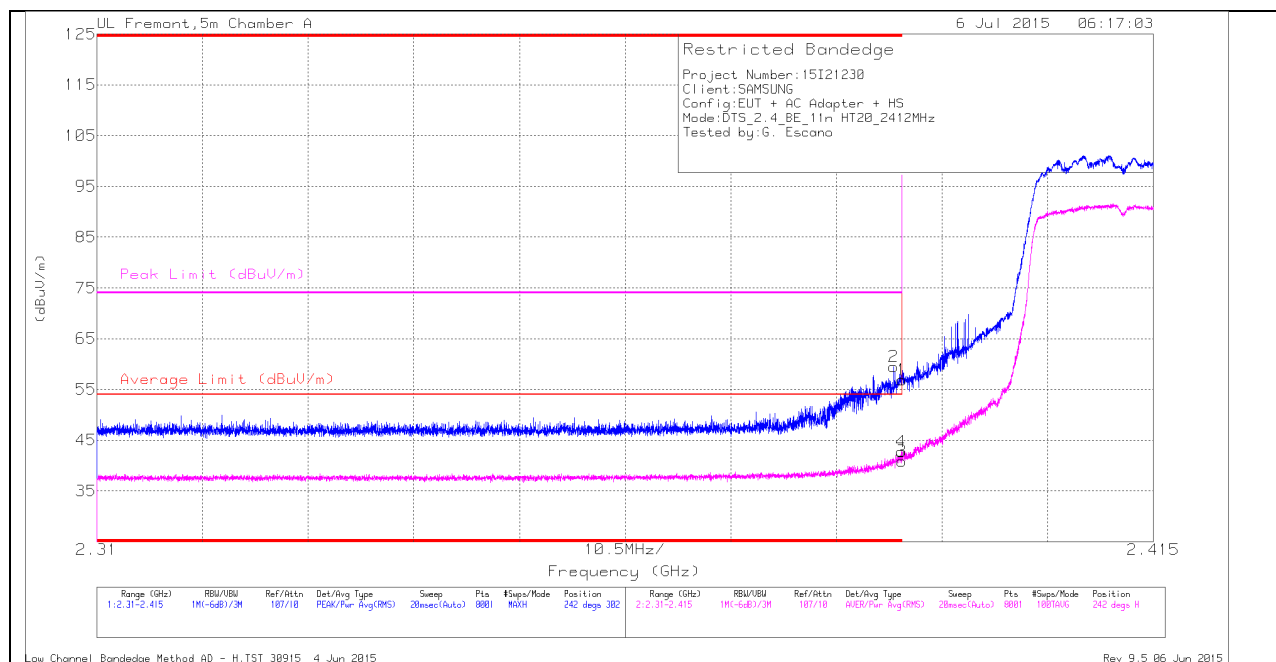
MAV1 - KDB558074 Option 1 Maximum RMS Average

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

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

RESTRICTED BANDEDGE (LOW CHANNEL)

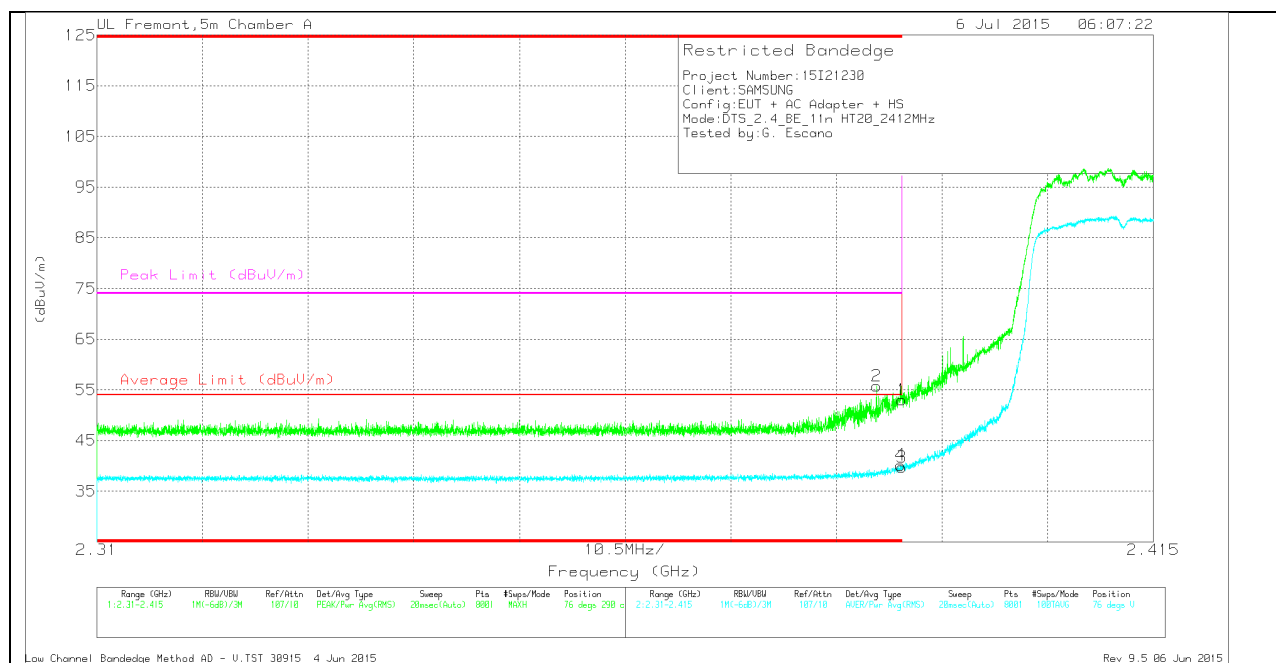
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	49.75	Pk	32	-24.9	0	56.85	-	-	74	-17.15	242	302	H
2	* 2.389	52.41	Pk	32	-24.9	0	59.51	-	-	74	-14.49	242	302	H
3	* 2.39	33.35	RMS	32	-24.9	.35	40.8	54	-13.2	-	-	242	302	H
4	* 2.39	35.27	RMS	32	-24.9	.35	42.72	54	-11.28	-	-	242	302	H

VERTICAL PEAK AND AVERAGE PLOT

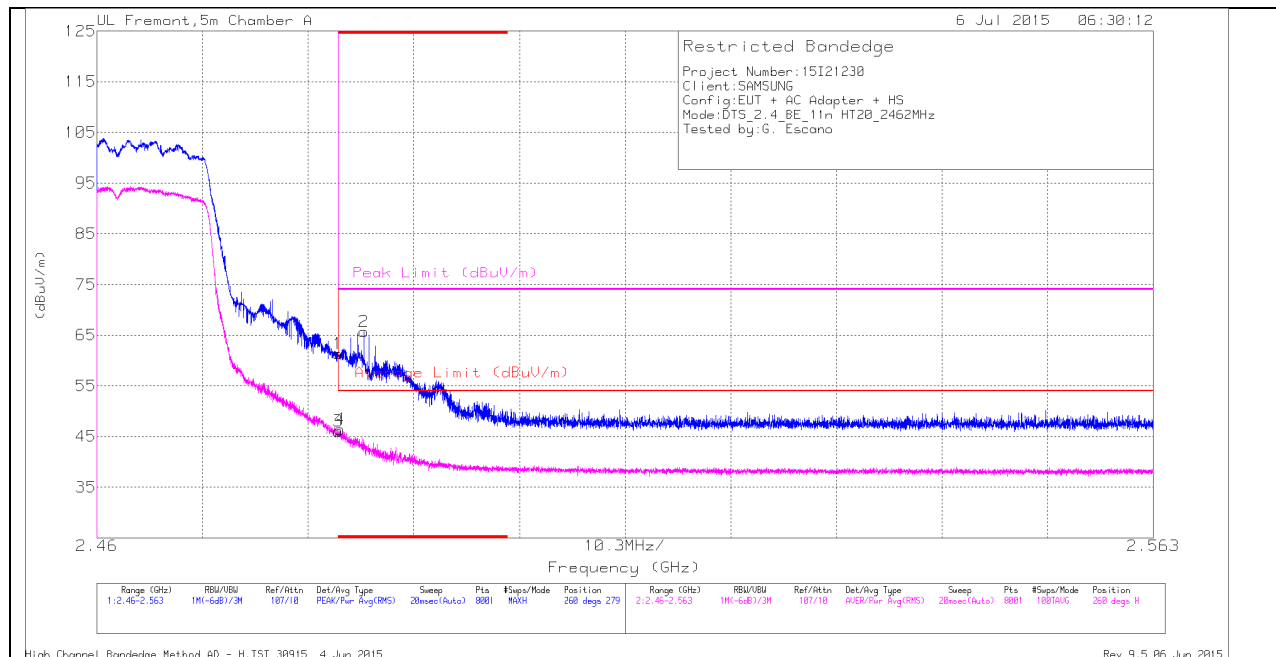


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.97	Pk	32	-24.9	0	53.07	-	-	74	-20.93	76	290	V
2	* 2.387	48.69	Pk	32	-24.9	0	55.79	-	-	74	-18.21	76	290	V
3	* 2.39	32.31	RMS	32	-24.9	.35	39.76	54	-14.24	-	-	76	290	V
4	* 2.39	32.72	RMS	32	-24.9	.35	40.17	54	-13.83	-	-	76	290	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

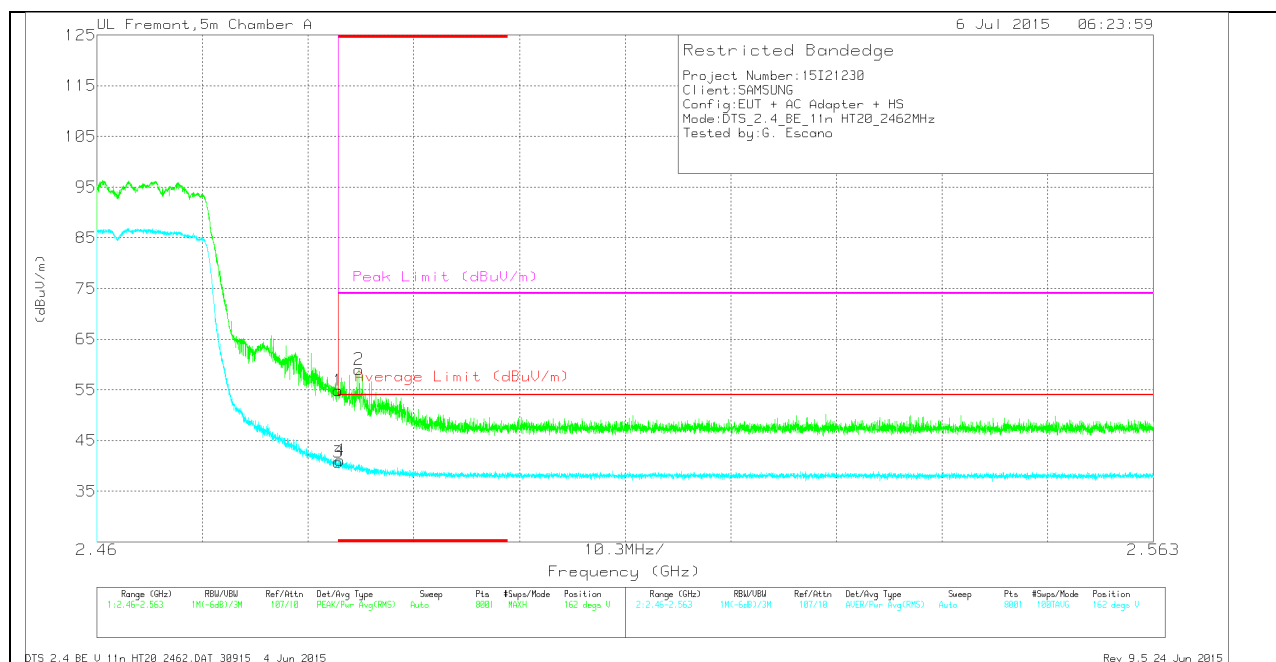
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	54.09	Pk	32.1	-24.8	0	61.39	-	-	74	-12.61	260	279	H
2	* 2.486	58.44	Pk	32.1	-24.8	0	65.74	-	-	74	-8.26	260	279	H
3	* 2.484	38.38	RMS	32.1	-24.8	.35	46.03	54	-7.97	-	-	260	279	H
4	* 2.484	38.84	RMS	32.1	-24.8	.35	46.49	54	-7.51	-	-	260	279	H

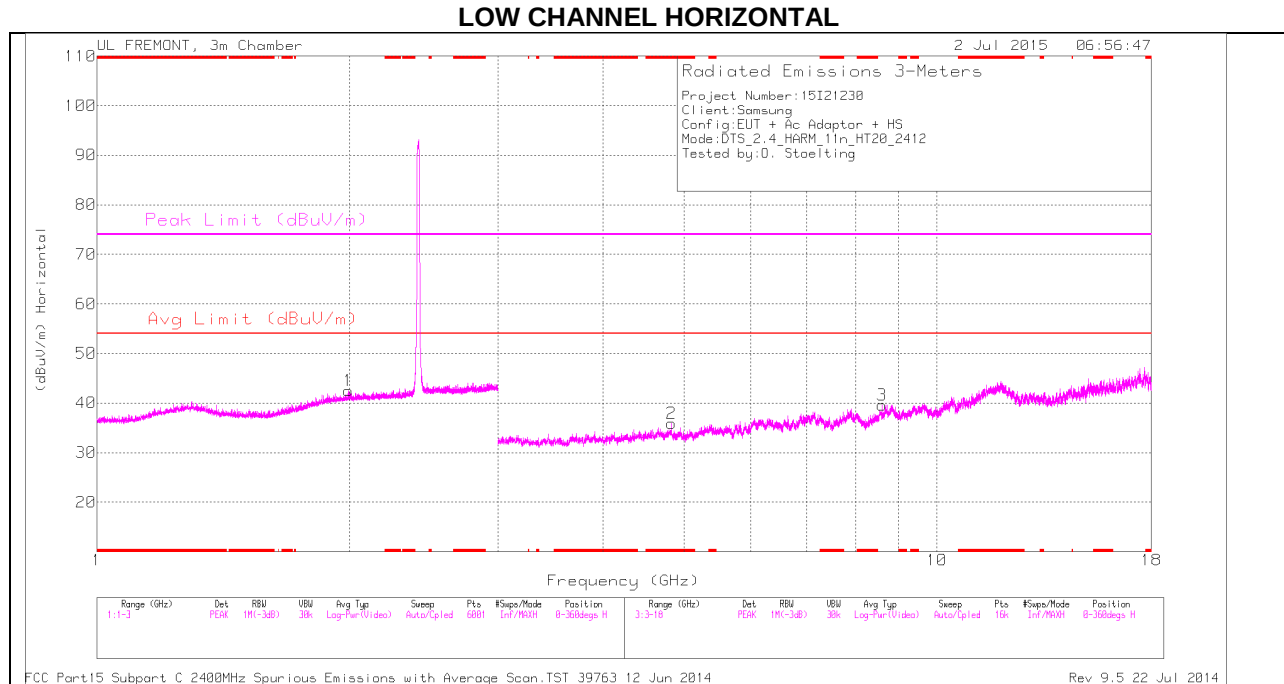
VERTICAL PEAK AND AVERAGE PLOT



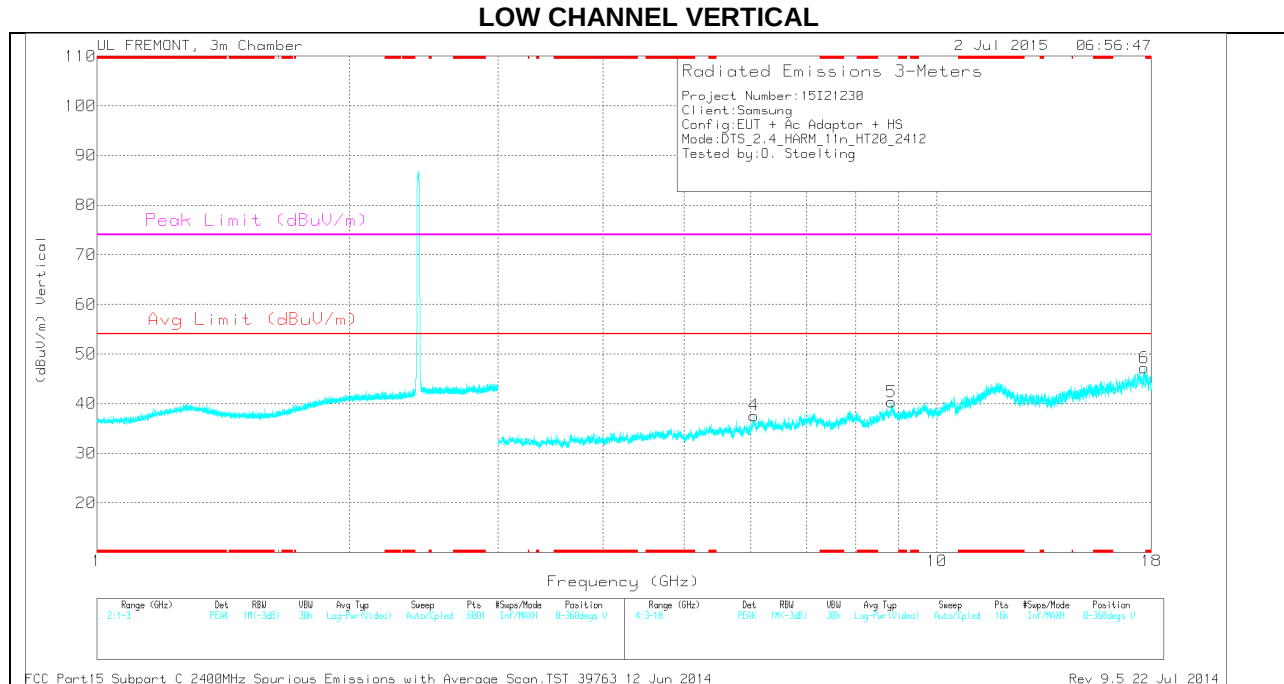
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	47.54	Pk	32.1	-24.8	0	54.84	-	-	74	-19.16	162	301	V
2	* 2.486	51.74	Pk	32.1	-24.8	0	59.04	-	-	74	-14.96	162	301	V
3	* 2.484	33.13	RMS	32.1	-24.8	.35	40.78	54	-13.22	-	-	162	301	V
4	* 2.484	33.41	RMS	32.1	-24.8	.35	41.06	54	-12.94	-	-	162	301	V

HARMONICS AND SPURIOUS EMISSIONS



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



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/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
2	* 4.828	31.26	PK	34	-29.4	0	35.86	-	-	74	-38.14	0-360	200	H
1	1.991	33.45	PK	31.5	-22.5	0	42.45	-	-	-	-	0-360	200	H
4	6.054	30.82	PK	35.2	-28.4	0	37.62	-	-	-	-	0-360	200	V
3	8.603	29.49	PK	35.8	-25.7	0	39.59	-	-	-	-	0-360	100	H
5	8.836	29.41	PK	35.9	-25	0	40.31	-	-	-	-	0-360	200	V
6	17.657	26.49	PK	41.4	-20.7	0	47.19	-	-	-	-	0-360	100	V

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

PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.829	42.87	PK2	34	-29.4	0	47.47	-	-	74	-26.53	175	303	H
* 4.827	29.82	MAv1	34	-29.4	.35	34.76	54	-19.24	-	-	175	303	H
1.992	44.44	PK2	31.5	-22.5	0	53.44	-	-	74	-20.56	319	201	H
1.993	42.61	PK2	31.5	-22.5	0	51.61	-	-	74	-22.39	359	200	H
6.053	38.72	PK2	35.2	-28.5	0	45.42	-	-	74	-28.58	319	201	V
8.602	36.68	PK2	35.8	-25.7	0	46.78	-	-	74	-27.22	319	100	H
8.834	35.91	PK2	35.9	-25	0	46.81	-	-	74	-27.19	319	201	V
17.655	35.3	PK2	41.4	-20.7	0	56	-	-	74	-18	319	100	V

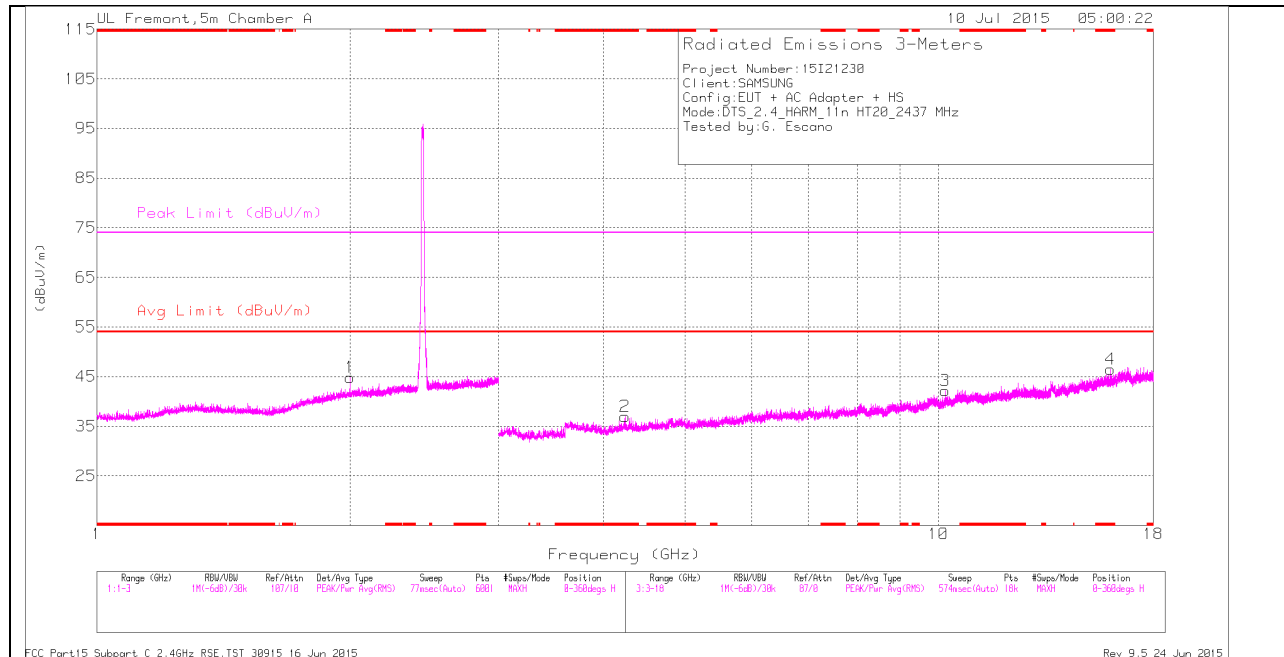
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

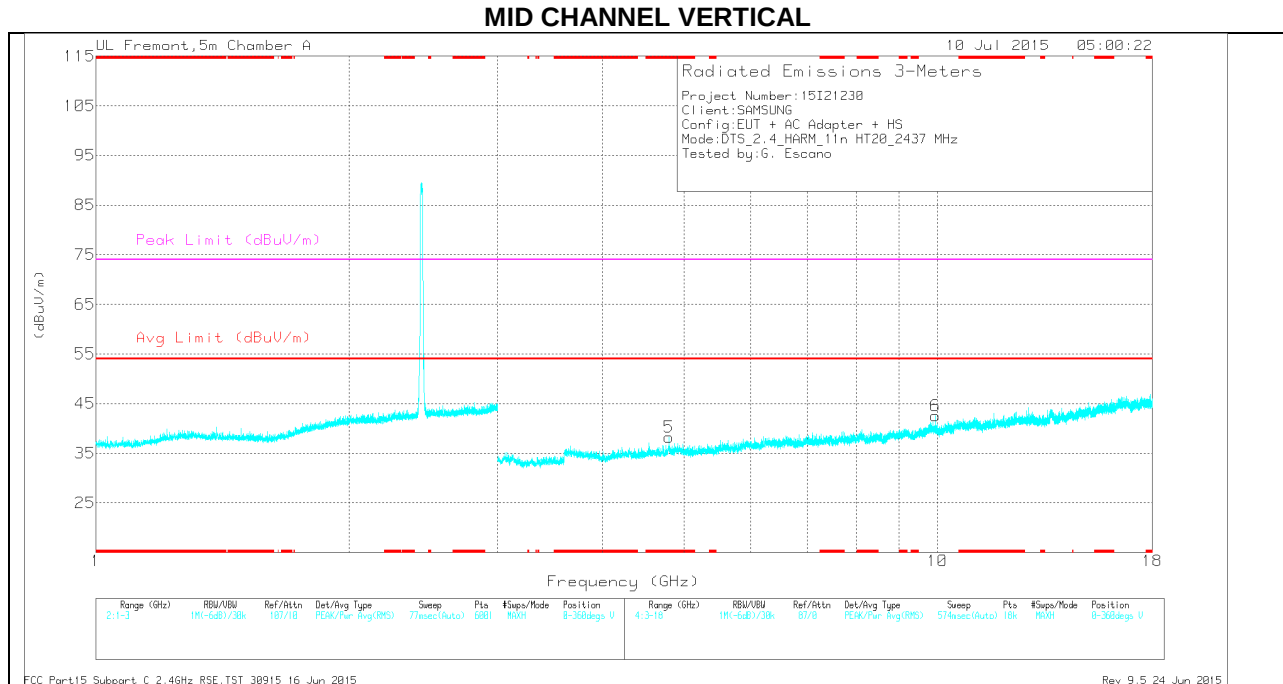
MAv1 - KDB558074 Option 1 Maximum RMS Average

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.



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 T136 (dB/m)	Amp/Cbl/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	* 4.242	34.78	Pk	33.4	-31.2	0	36.98	-	-	74	-37.02	0-360	100	H
4	* 16.008	28.54	Pk	41	-23.1	0	46.44	-	-	74	-27.56	0-360	201	H
5	* 4.795	35.49	Pk	34	-31.3	0	38.19	-	-	74	-35.81	0-360	100	V
1	2	39	Pk	31.1	-25.3	0	44.8	-	-	-	-	0-360	100	H
6	9.945	28.96	Pk	37	-23.4	0	42.56	-	-	-	-	0-360	100	V
3	10.185	28.9	Pk	37.2	-23.9	0	42.2	-	-	-	-	0-360	100	H

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

Pk - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 16.006	35.1	PK2	41	-23.1	0	53	-	-	74	-21	120	155	H
* 16.009	23.32	MAV1	41	-23.1	.35	41.57	54	-12.43	-	-	120	155	H
* 4.241	41.86	PK2	33.4	-31.2	0	44.06	-	-	74	-29.94	337	142	H
* 4.242	30.19	MAV1	33.4	-31.2	.35	32.74	54	-21.26	-	-	337	142	H
* 4.794	41.77	PK2	34	-31.3	0	44.47	-	-	74	-29.53	224	140	V
* 4.794	30.01	MAV1	34	-31.3	.35	33.06	54	-20.94	-	-	224	140	V
2	44.18	PK2	31.1	-25.3	0	49.98	-	-	-	-	315	107	H
9.944	34.78	PK2	37	-23.4	0	48.38	-	-	-	-	45	131	V
10.186	35.36	PK2	37.2	-23.9	0	48.66	-	-	-	-	245	163	H

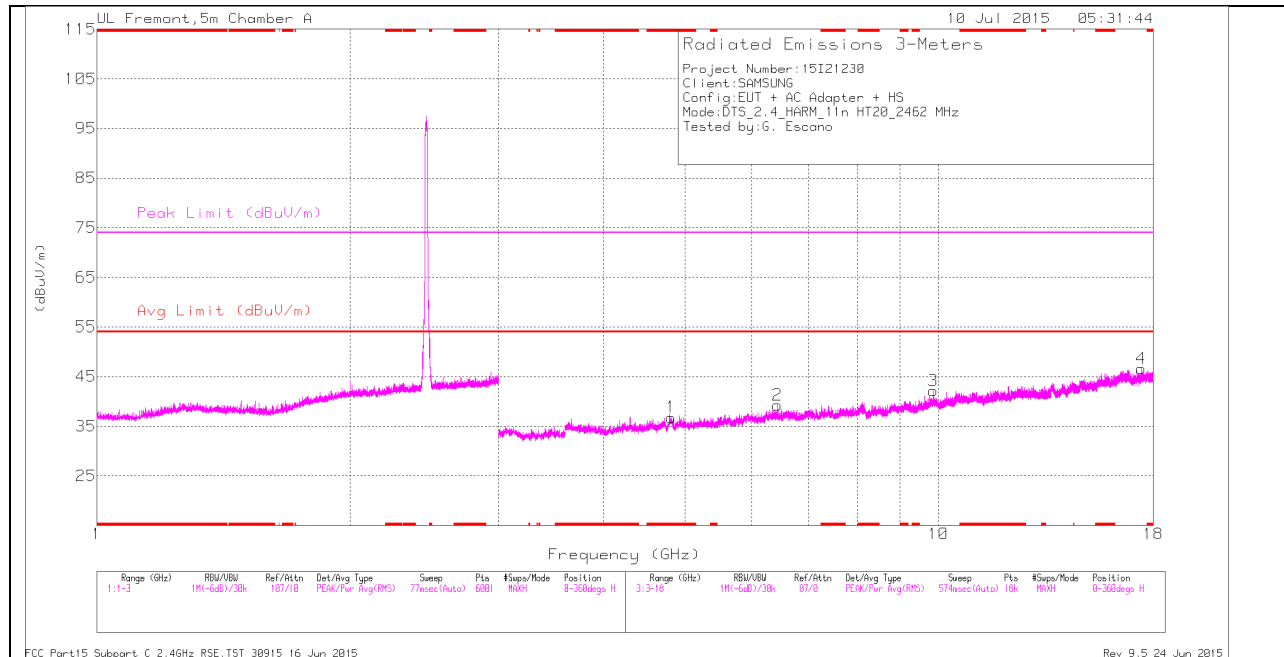
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

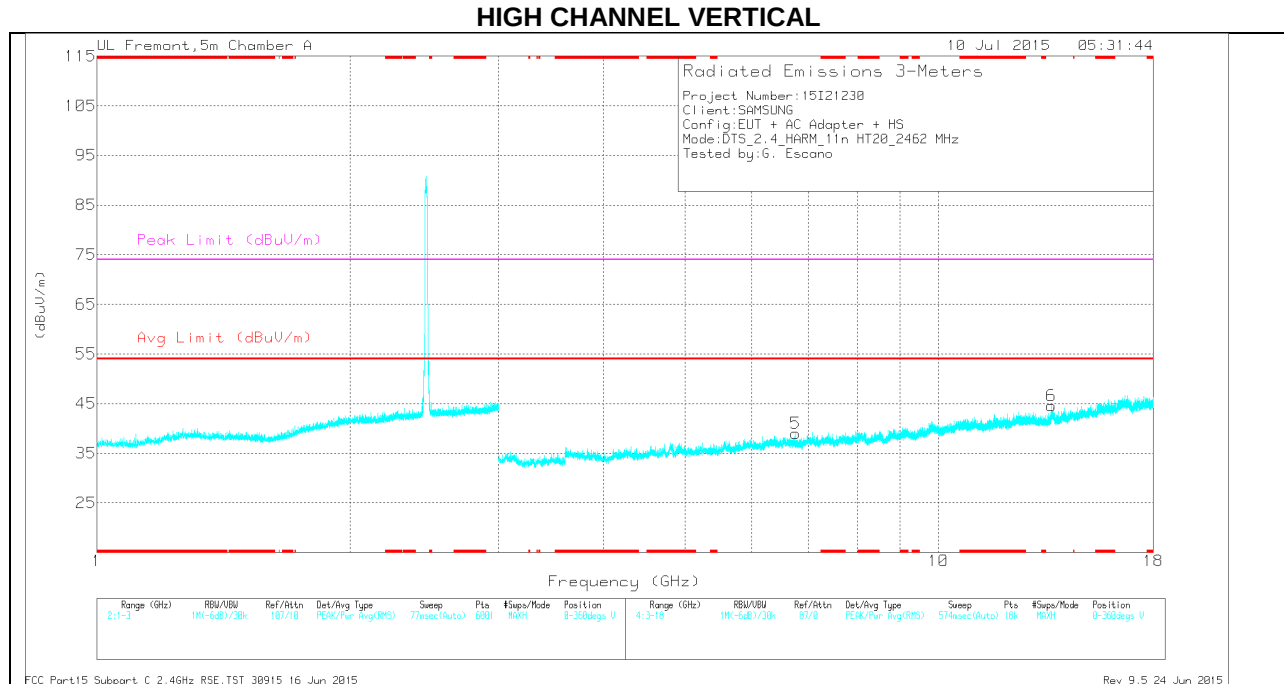
MAV1 - KDB558074 Option 1 Maximum RMS Average

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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.



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 T136 (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	* 4.817	33.88	Pk	33.9	-31	0	36.78	-	-	74	-37.22	0-360	201	H
2	6.433	32.52	Pk	35.5	-28.8	0	39.22	-	-	-	-	0-360	201	H
5	6.766	31.03	Pk	35.6	-27.6	0	39.03	-	-	-	-	0-360	200	V
3	9.851	28.72	Pk	37	-23.6	0	42.12	-	-	-	-	0-360	201	H
6	13.624	28.34	Pk	38.9	-22.7	0	44.54	-	-	-	-	0-360	200	V
4	17.411	28.63	Pk	41.4	-23.4	0	46.63	-	-	-	-	0-360	100	H

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

Pk - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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
* 4.816	36.67	PK2	33.9	-31	0	39.57	-	-	74	-34.43	303	231	H
* 4.816	30.1	MAV1	33.9	-31	.35	33.35	54	-20.65	-	-	303	231	H
6.432	39.05	PK2	35.5	-28.8	0	45.75	-	-	-	-	328	240	H
6.765	36.98	PK2	35.6	-27.6	0	44.98	-	-	-	-	46	246	V
9.852	35.44	PK2	37	-23.6	0	48.84	-	-	-	-	273	189	H
13.625	34.7	PK2	38.9	-22.6	0	51	-	-	-	-	16	171	V
17.413	35.05	PK2	41.4	-23.4	0	53.05	-	-	-	-	112	169	H

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

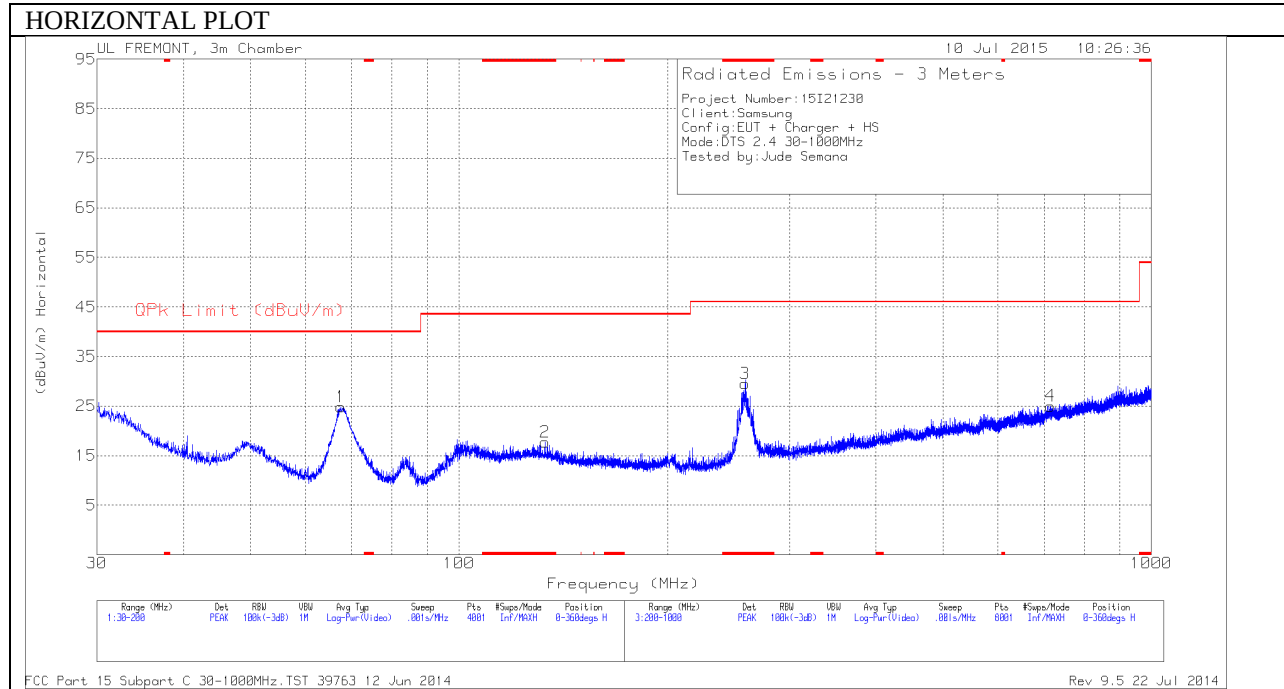
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

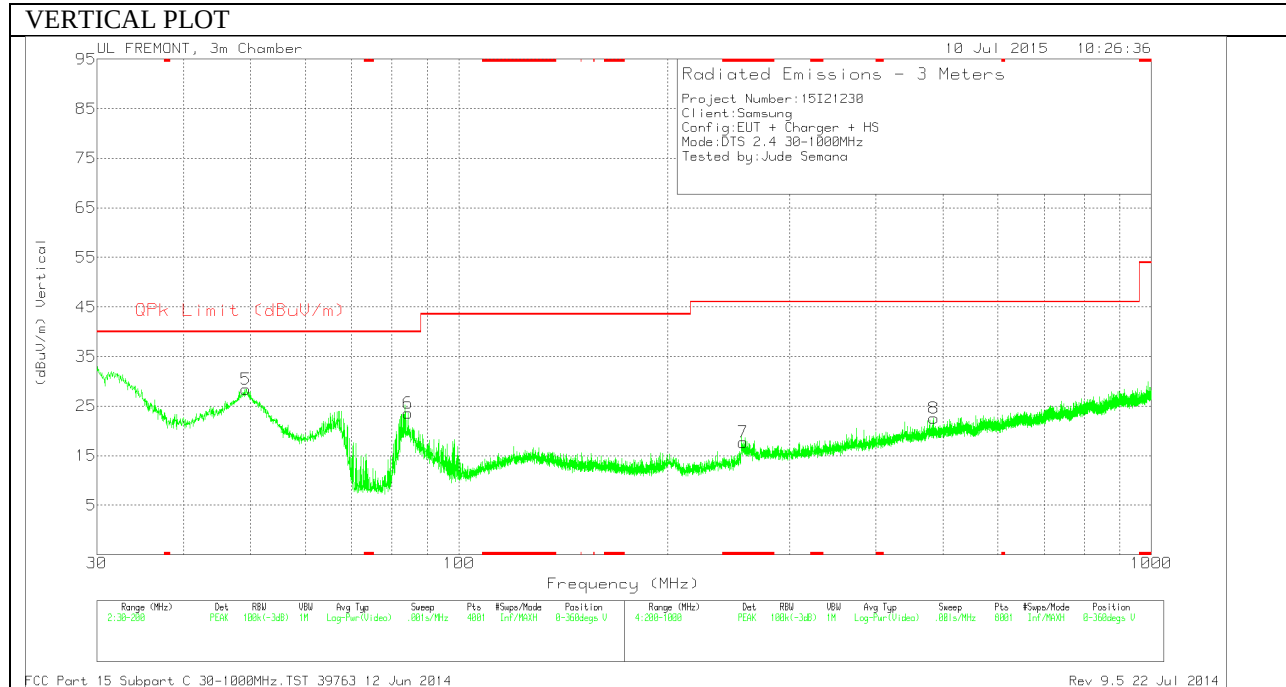
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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 T185 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 133.0625	29.88	PK	13.7	-25.9	17.68	43.52	-25.84	0-360	200	H
3	* 258.7	42.24	PK	11.9	-24.6	29.54	46.02	-16.48	0-360	100	H
7	* 257.4	30.57	PK	11.7	-24.6	17.67	46.02	-28.35	0-360	100	V
5	49.21	46.84	PK	8.5	-26.9	28.44	40	-11.56	0-360	100	V
1	67.4425	43.34	PK	8.2	-26.7	24.84	40	-15.16	0-360	300	H
6	84.4	42.47	PK	7.6	-26.5	23.57	40	-16.43	0-360	100	V
8	485.2	30.1	PK	17.5	-25	22.6	46.02	-23.42	0-360	300	V
4	714.7	28.73	PK	20.3	-24	25.03	46.02	-20.99	0-360	100	H

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

PK - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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 C63.10.

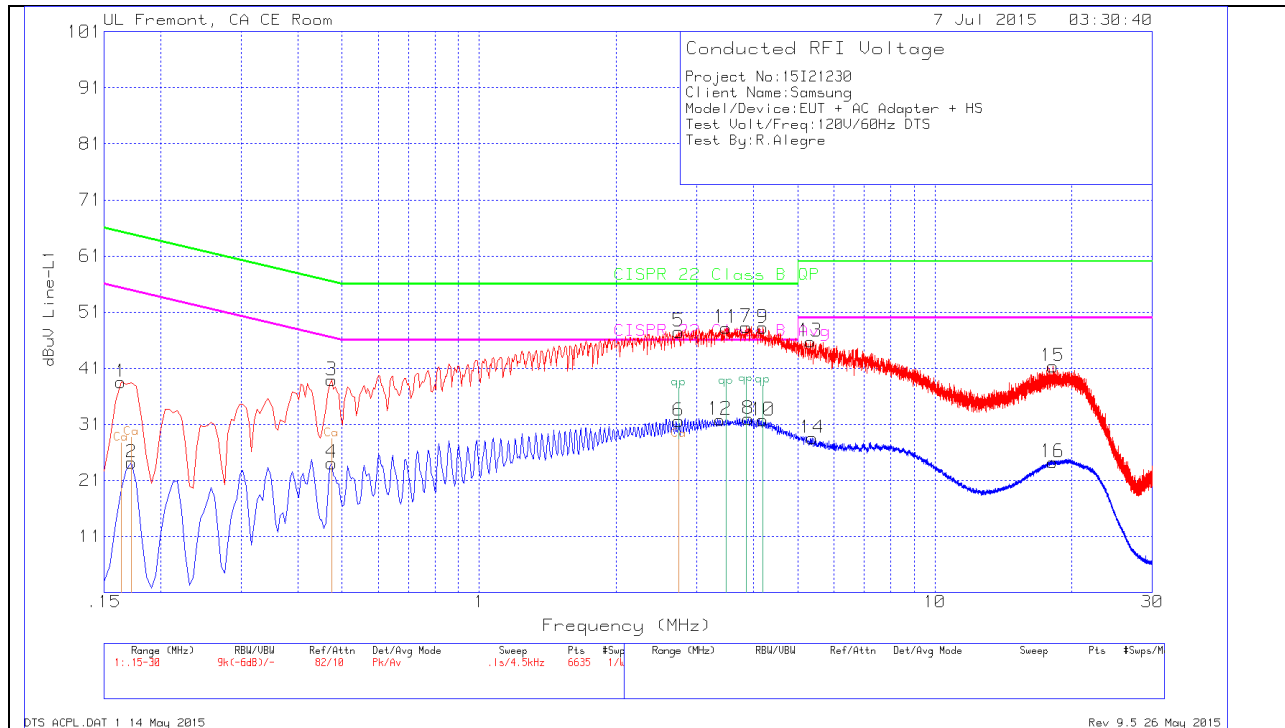
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
1	.1635	37.34	Pk	1.2	0	38.54	65.28	-26.74	-	-
2	.1725	23.07	Av	1.1	0	24.17	-	-	54.84	-30.67
3	.474	38.46	Pk	.4	0	38.86	56.44	-17.58	-	-
4	.474	23.7	Av	.4	0	24.1	-	-	46.44	-22.34
5	2.742	47.23	Pk	.2	.1	47.53	56	-8.47	-	-
6	2.742	31.31	Av	.2	.1	31.61	-	-	46	-14.39
7	3.8535	48.04	Pk	.2	.1	48.34	56	-7.66	-	-
8	3.894	31.67	Av	.2	.1	31.97	-	-	46	-14.03
9	4.1955	47.93	Pk	.2	.1	48.23	56	-7.77	-	-
10	4.1955	31.4	Av	.2	.1	31.7	-	-	46	-14.3
11	3.48	47.9	Pk	.2	.1	48.2	56	-7.8	-	-
12	3.3765	31.49	Av	.2	.1	31.79	-	-	46	-14.21
13	5.334	45.45	Pk	.2	.1	45.75	60	-14.25	-	-
14	5.3835	28.23	Av	.2	.1	28.53	-	-	50	-21.47
15	18.159	40.82	Pk	.3	.2	41.32	60	-18.68	-	-
16	18.141	23.74	Av	.3	.2	24.24	-	-	50	-25.76

Pk - Peak detector

Av - Average detection

Ca - CISPR average detection

Range 1: Line-L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
2.74313	27.29	Ca	.2	.1	27.59	-	-	46	-18.41
3.85238	28.33	Ca	.2	.1	28.63	-	-	46	-17.37
4.19438	28.07	Ca	.2	.1	28.37	-	-	46	-17.63
3.48113	27.95	Ca	.2	.1	28.25	-	-	46	-17.75

Ca - CISPR average detection

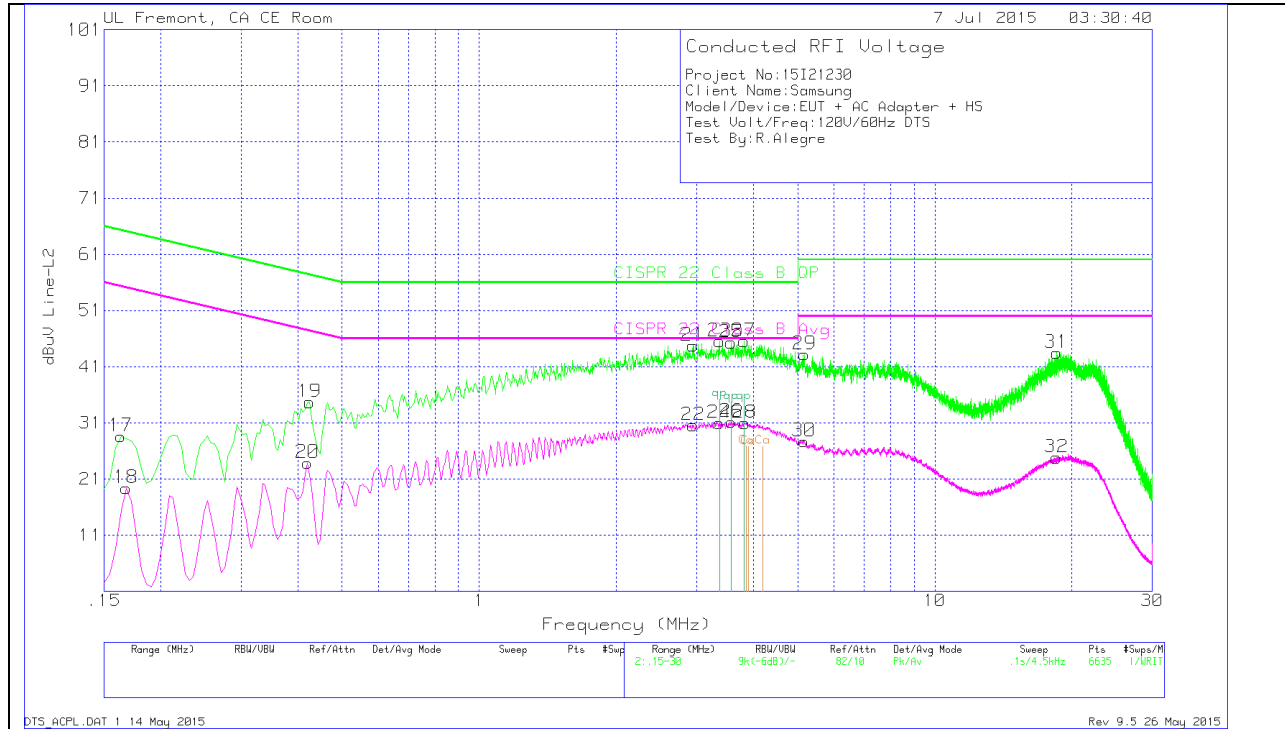
Quasi-Peak Emissions

Range 1: Line-L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
2.74313	37.18	Qp	.2	.1	37.48	56	-18.52	-	-
3.85238	37.83	Qp	.2	.1	38.13	56	-17.87	-	-
4.19438	37.66	Qp	.2	.1	37.96	56	-18.04	-	-
3.48113	37.41	Qp	.2	.1	37.71	56	-18.29	-	-

Qp - Quasi-Peak detector

LINE 2 PLOT



LINE 2 RESULTS

Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
17	.1635	27.3	Pk	1.3	0	28.6	65.28	-36.68	-	-
18	.168	18.08	Av	1.3	0	19.38	-	-	55.06	-35.68
19	.4245	34.32	Pk	.4	0	34.72	57.36	-22.64	-	-
20	.42	23.46	Av	.4	0	23.86	-	-	47.45	-23.59
21	2.9445	44.45	Pk	.2	.1	44.75	56	-11.25	-	-
22	2.949	30.29	Av	.2	.1	30.59	-	-	46	-15.41
23	3.372	45.23	Pk	.2	.1	45.53	56	-10.47	-	-
24	3.363	30.66	Av	.2	.1	30.96	-	-	46	-15.04
25	3.5745	45	Pk	.2	.1	45.3	56	-10.7	-	-
26	3.579	30.86	Av	.2	.1	31.16	-	-	46	-14.84
27	3.813	45.25	Pk	.2	.1	45.55	56	-10.45	-	-
28	3.8265	30.68	Av	.2	.1	30.98	-	-	46	-15.02
29	5.1765	42.91	Pk	.2	.1	43.21	60	-16.79	-	-
30	5.163	27.4	Av	.2	.1	27.7	-	-	50	-22.3
31	18.5235	42.97	Pk	.3	.2	43.47	60	-16.53	-	-
32	18.519	24.34	Av	.3	.2	24.84	-	-	50	-25.16

Pk - Peak detector

Av - Average detection

Ca - CISPR average detection

Range 2: Line-L2 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
3.37313	26.56	Ca	.2	.1	26.86	-	-	46	-19.14
3.57338	26.43	Ca	.2	.1	26.73	-	-	46	-19.27
3.81188	26.5	Ca	.2	.1	26.8	-	-	46	-19.2

Ca - CISPR average detection

Quasi-Peak Emissions

Range 2: Line-L2 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
3.37313	34.94	Qp	.2	.1	35.24	56	-20.76	-	-
3.57338	34.42	Qp	.2	.1	34.72	56	-21.28	-	-
3.81188	34.49	Qp	.2	.1	34.79	56	-21.21	-	-

Qp - Quasi-Peak detector