



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

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

MODEL NUMBER: SM-G150N0 , SM-G155S

FCC ID: A3LSMG150

REPORT NUMBER: 15I20924-E4

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Prepared for

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NVLAP LAB CODE 200065-0

Revision History

Issue			
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/WCDMA/LTE Phone + Bluetooth and WLAN 2.4GHz b/g/n.
MODEL: SM-G150N0, SM-G155S
SERIAL NUMBER: R38G40TQMVX (Conducted), R38G40TQM9X (Radiated)
DATE TESTED: MAY 8 – JUN 5, 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, and ANSI C63.10-2009.

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(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/WCDMA/LTE 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	17.4	54.95
2412 - 2462	802.11g	14.2	26.30
2412 - 2462	802.11n HT20	12.3	16.98

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of 2.61 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 and also cover open and close, it was determined that X orientation with cover open was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation with cover open.

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	ETA0U83KWK	DK1FB05HS	N/A
Earphone	Samsung	N/A	N/A	N/A

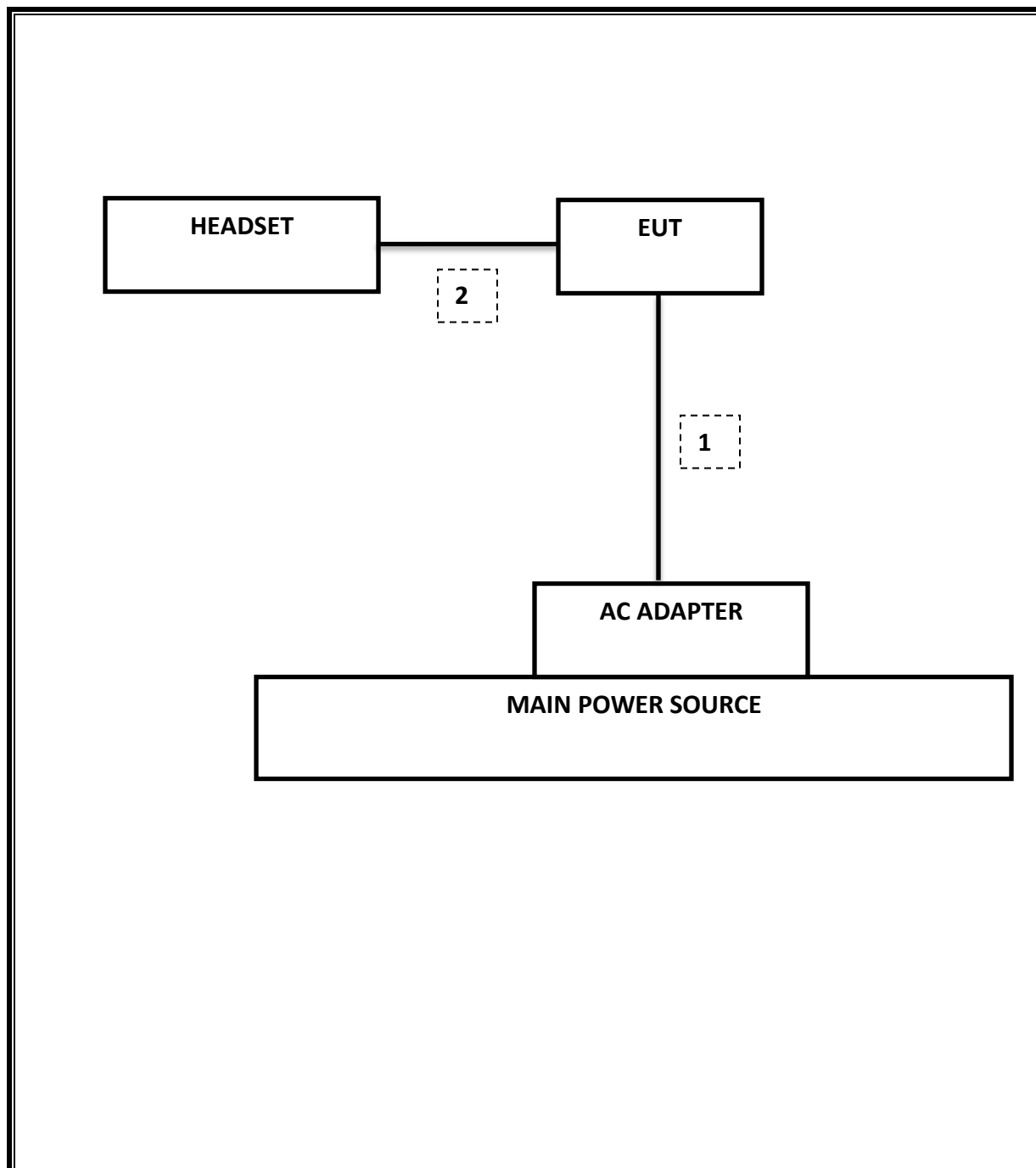
I/O CABLES

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	06/28/15
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	03/06/16
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/16
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 5GHz	Micro-Tronics	LPS17541	F00219	05/23/16
High Pass Filter 6GHz	Micro-Tronics	HPS17542	F00222	05/22/16
High Pass Filter 3GHz	Micro-Tronics	HPM17543	F00224	05/22/16

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Version 9.5, 07/22/14
Conducted Software	UL	UL EMC	Version 9.5, 05/17/14
CLT Software	UL	UL RF	Version 1.0, 02/02/15
Antenna Port Software	UL	UL RF	Version 2.1.1.1, 1/20/15

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-247 5.2.1	Occupied Band width (6dB)	>500KHz	Conducted	Pass	8.54 MHz
2.1051, 15.247 (d)	RSS-247 5.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-29.82 dBm
15.247	RSS-247 5.4.4	TX conducted output power	<30dBm		Pass	17.4 dBm
15.247	RSS-247 5.2.2	PSD	<8dBm		Pass	-1.23 dBm
15.207 (a)	RSS-GEN 8.8	AC Power Line conducted emissions	Section 10	Radiated	Pass	43.16dBuV(AV)
15.205, 15.209	RSS-GEN 8.9/7	Radiated Spurious Emission	< 54dBuV/m		Pass	49.13dBuV/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 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	9.06	0.5
Mid	2437	9.52	0.5
High	2462	8.54	0.5
Worst		8.54	

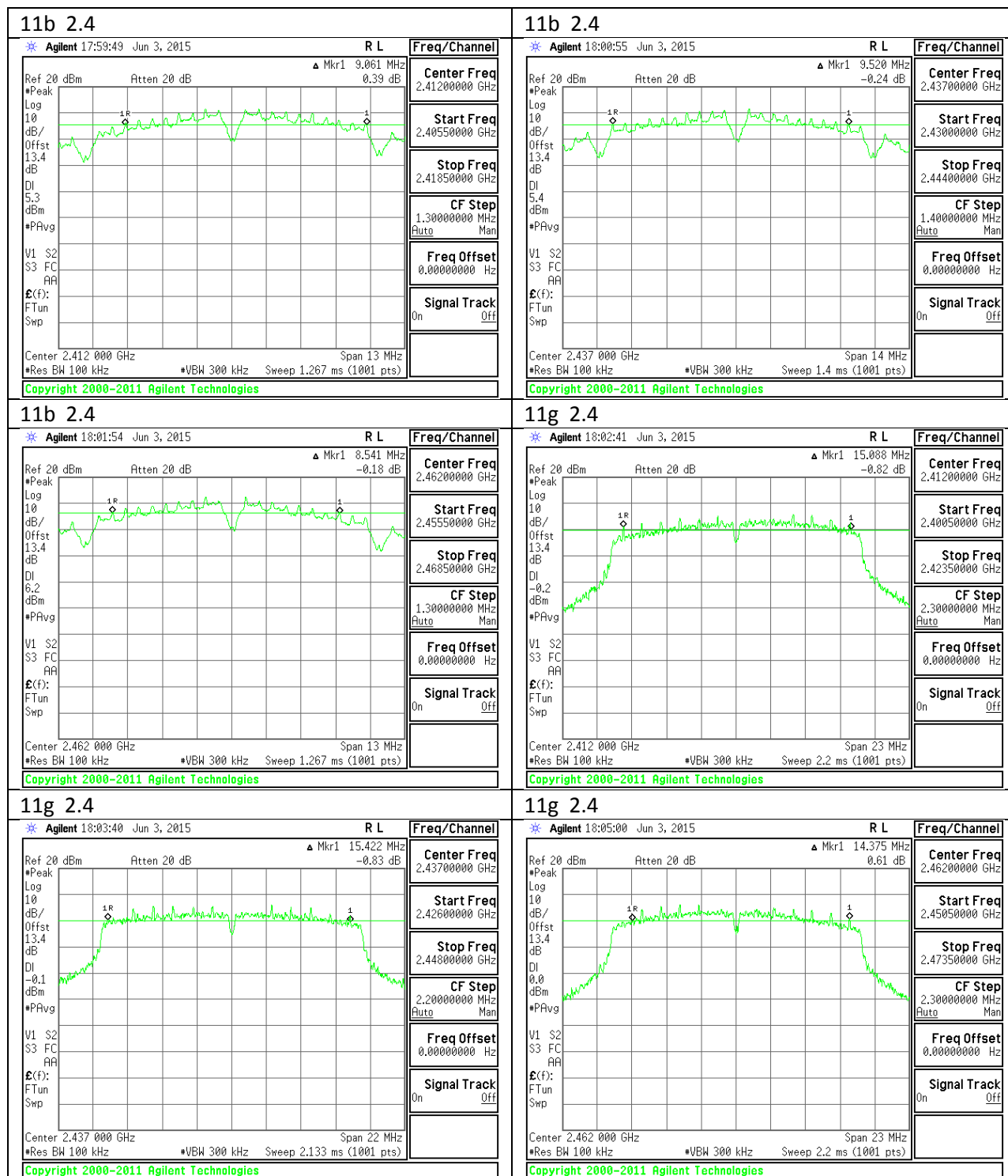
9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

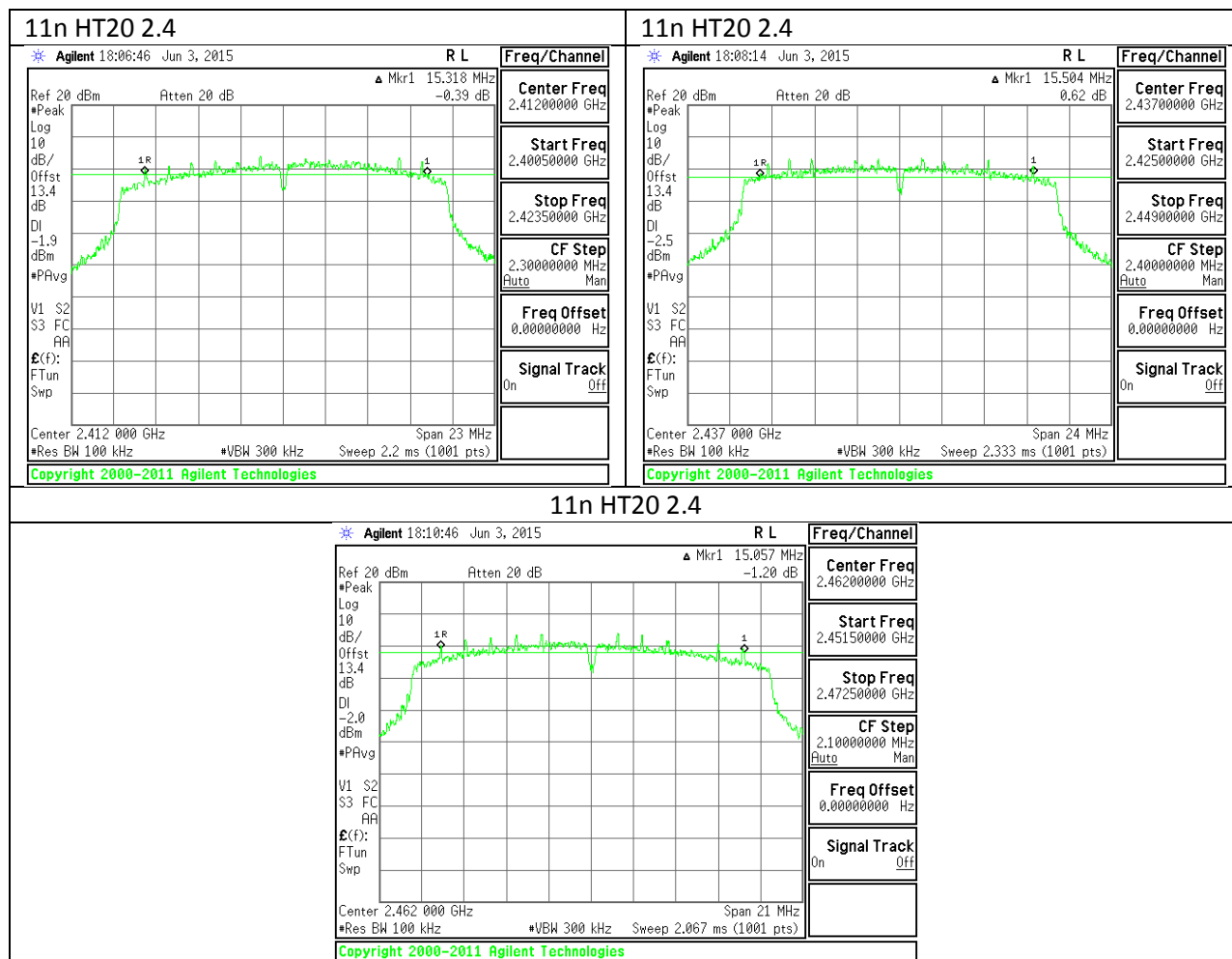
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	15.09	0.5
Mid	2437	15.42	0.5
High	2462	14.38	0.5
Worst		14.38	

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	15.32	0.5
Mid	2437	15.50	0.5
High	2462	15.06	0.5
Worst		15.06	

9.1.4. 6 dB BANDWIDTH MID CH PLOTS





9.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

9.2.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	13.78
Mid	2437	14.33
High	2462	13.72
Worst		14.33

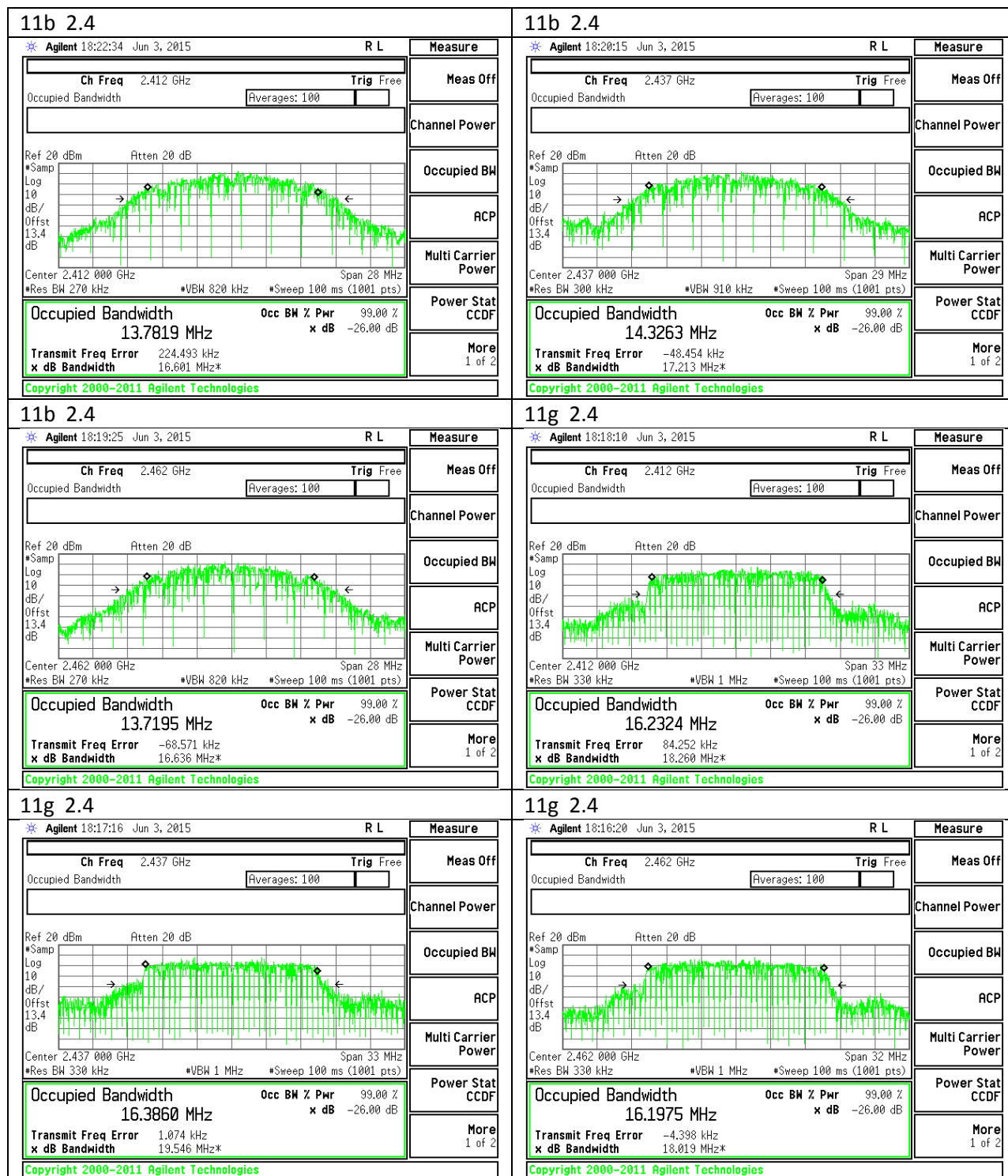
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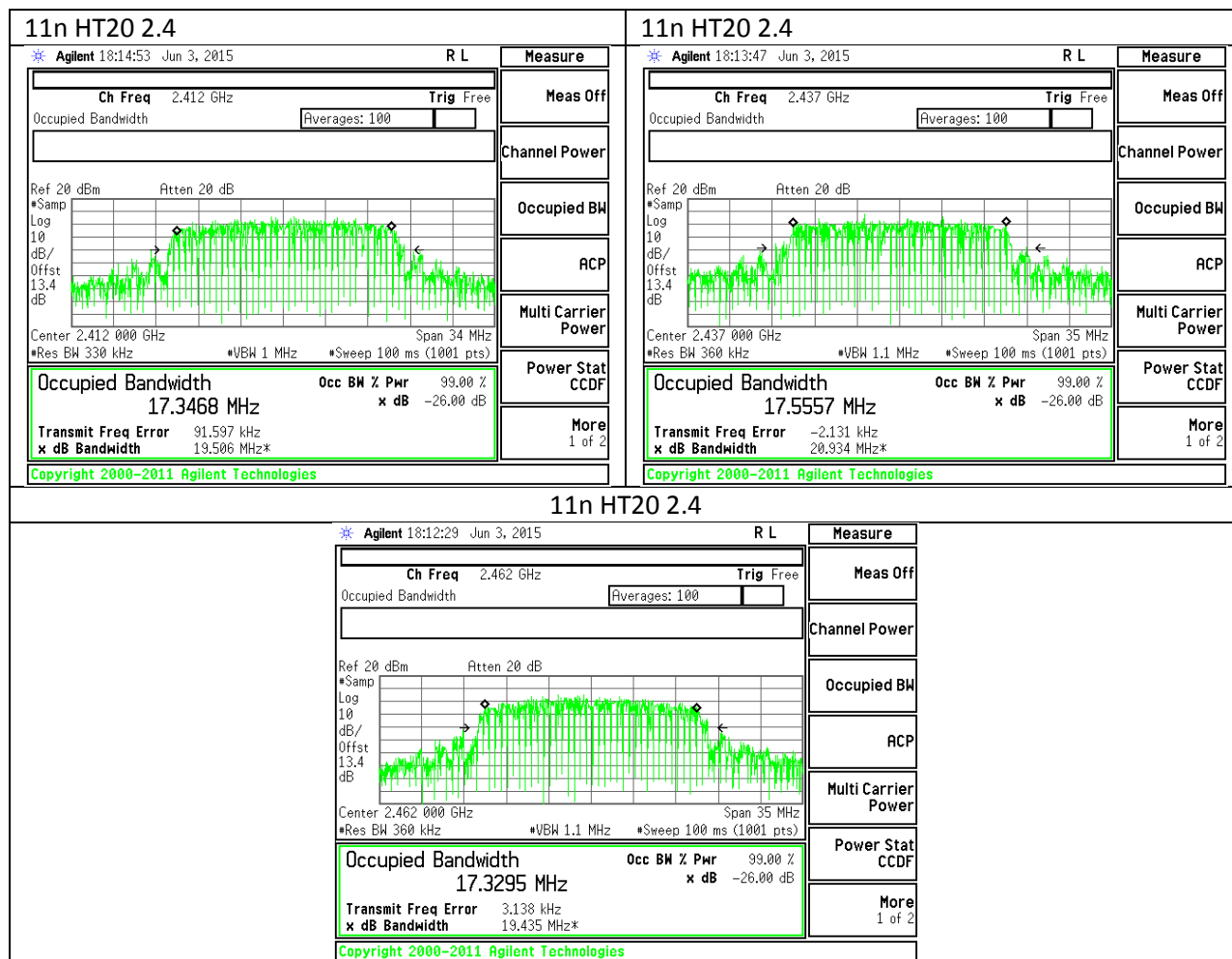
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.23
Mid	2437	16.39
High	2462	16.20
Worst		16.39

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.35
Mid	2437	17.56
High	2462	17.33
Worst		17.56

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	2.61	30.00	30	36	30.00
Mid	2437	2.61	30.00	30	36	30.00
High	2462	2.61	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	17.20	17.20	30.00	-12.80
Mid	2437	17.10	17.10	30.00	-12.90
High	2462	17.40	17.40	30.00	-12.60
Worst			17.40		

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	2.61	30.00	30	36	30.00
Mid	2437	2.61	30.00	30	36	30.00
High	2462	2.61	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	13.90	13.90	30.00	-16.10
Mid	2437	14.20	14.20	30.00	-15.80
High	2462	14.10	14.10	30.00	-15.90
Worst			14.20		

9.3.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	2.61	30.00	30	36	30.00
Mid	2437	2.61	30.00	30	36	30.00
High	2462	2.61	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	12.30	12.30	30.00	-17.70
Mid	2437	11.70	11.70	30.00	-18.30
High	2462	11.50	11.50	30.00	-18.50
Worst			12.30		

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	-1.91	8.0	-9.9
Mid	2437	-2.48	8.0	-10.5
High	2462	-1.23	8.0	-9.2

9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

PSD Results

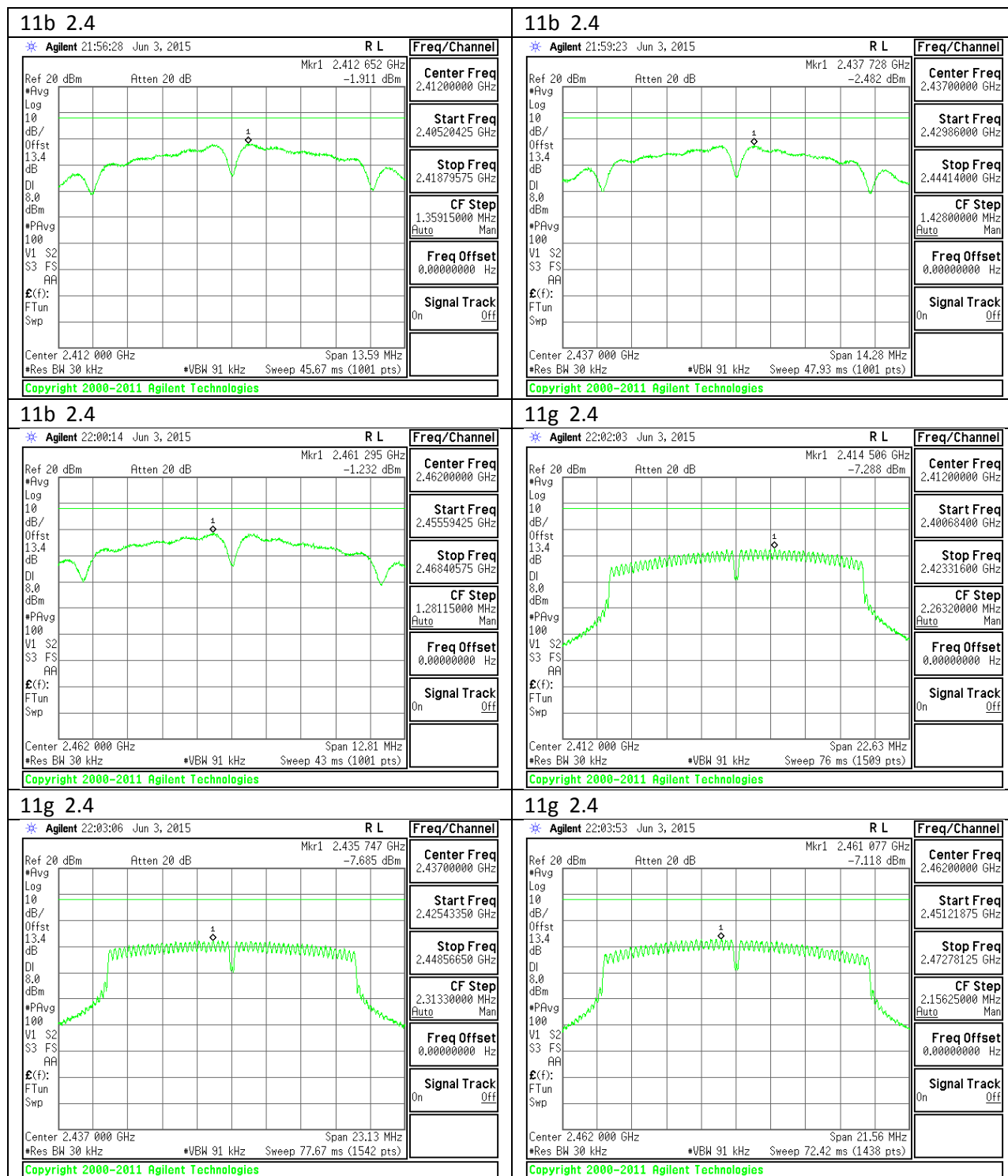
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-7.29	8.0	-15.3
Mid	2437	-7.69	8.0	-15.7
High	2462	-7.12	8.0	-15.1

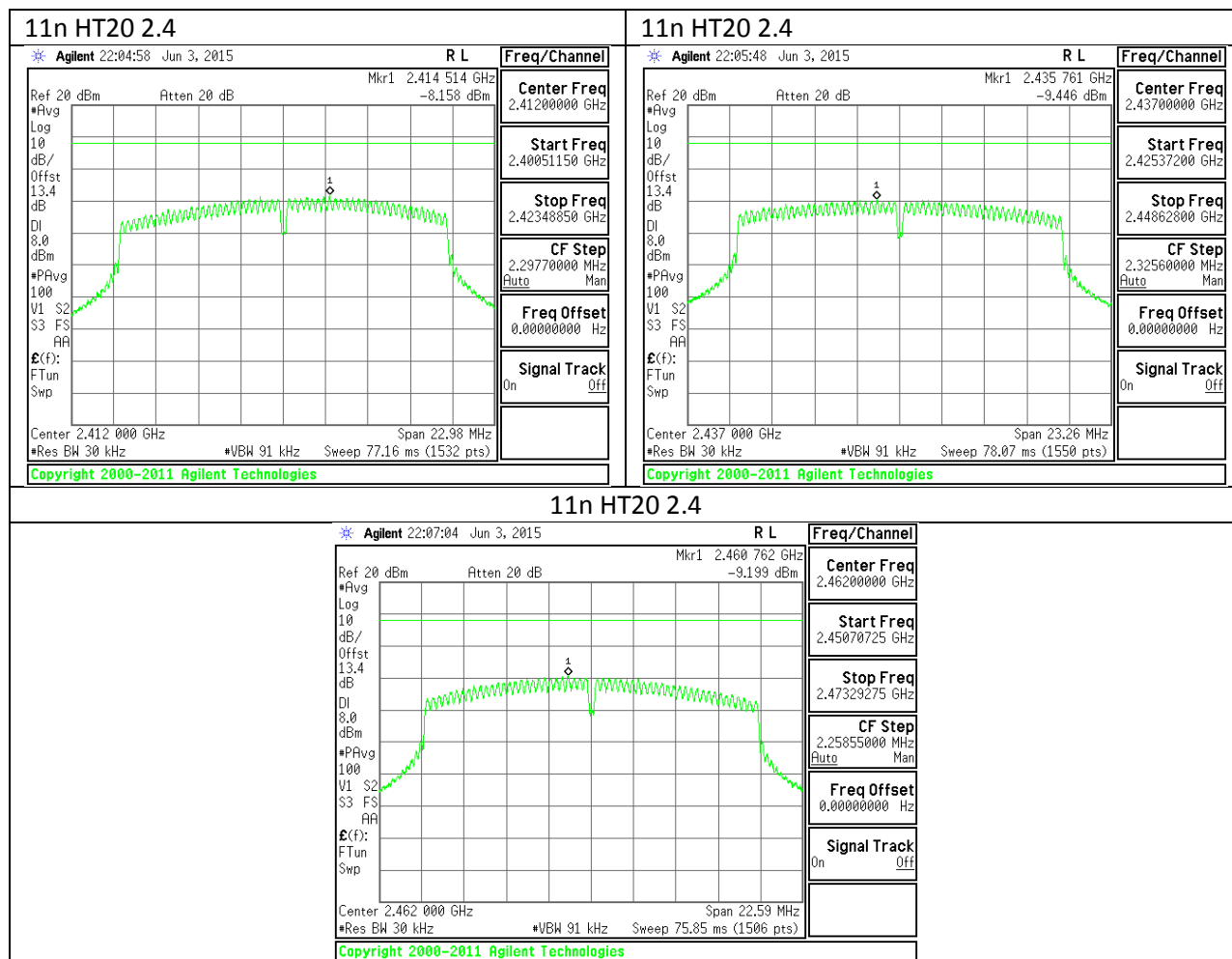
9.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-8.16	8.0	-16.2
Mid	2437	-9.45	8.0	-17.4
High	2462	-9.12	8.0	-17.1

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.

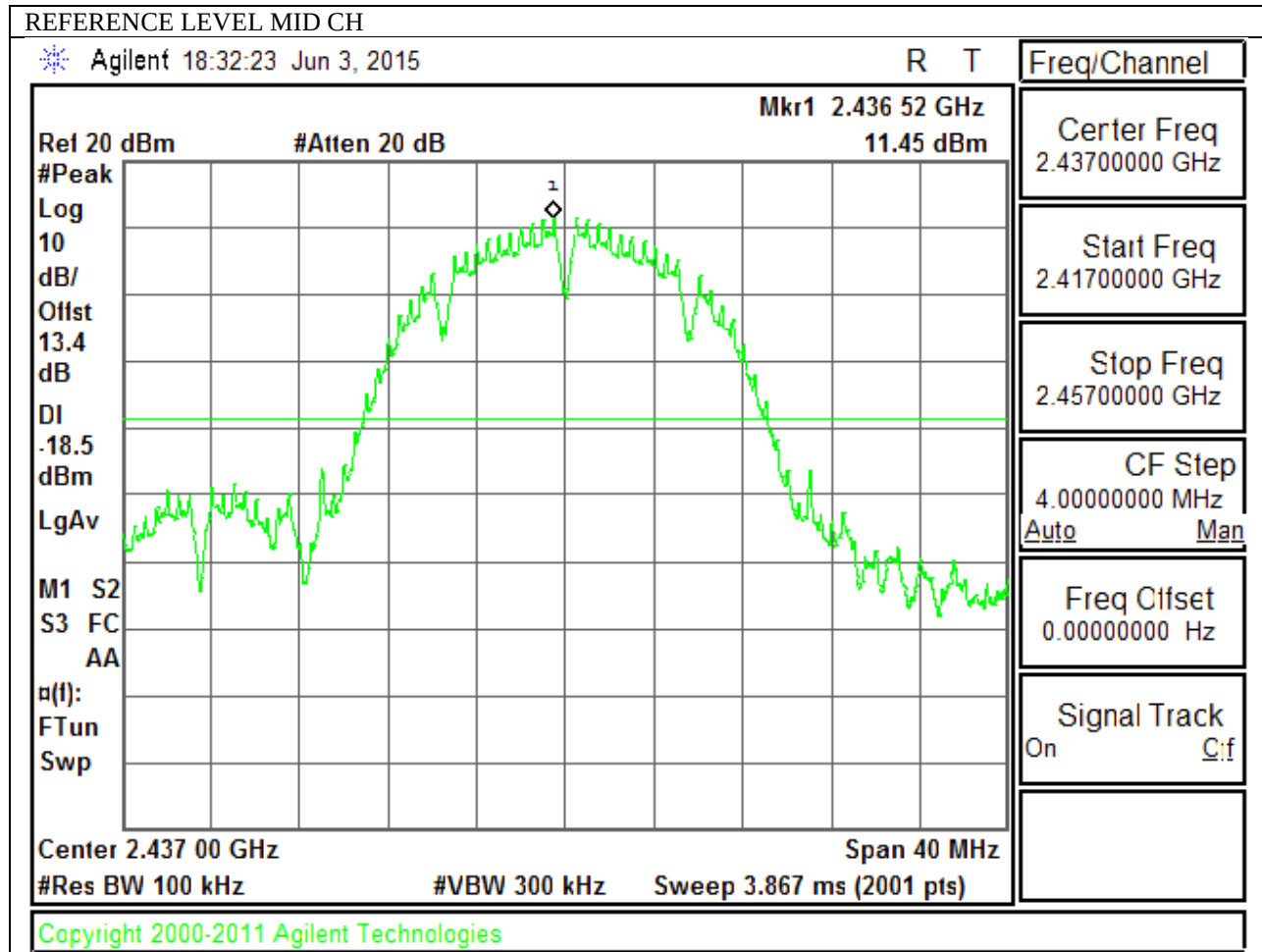
TEST PROCEDURE

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.

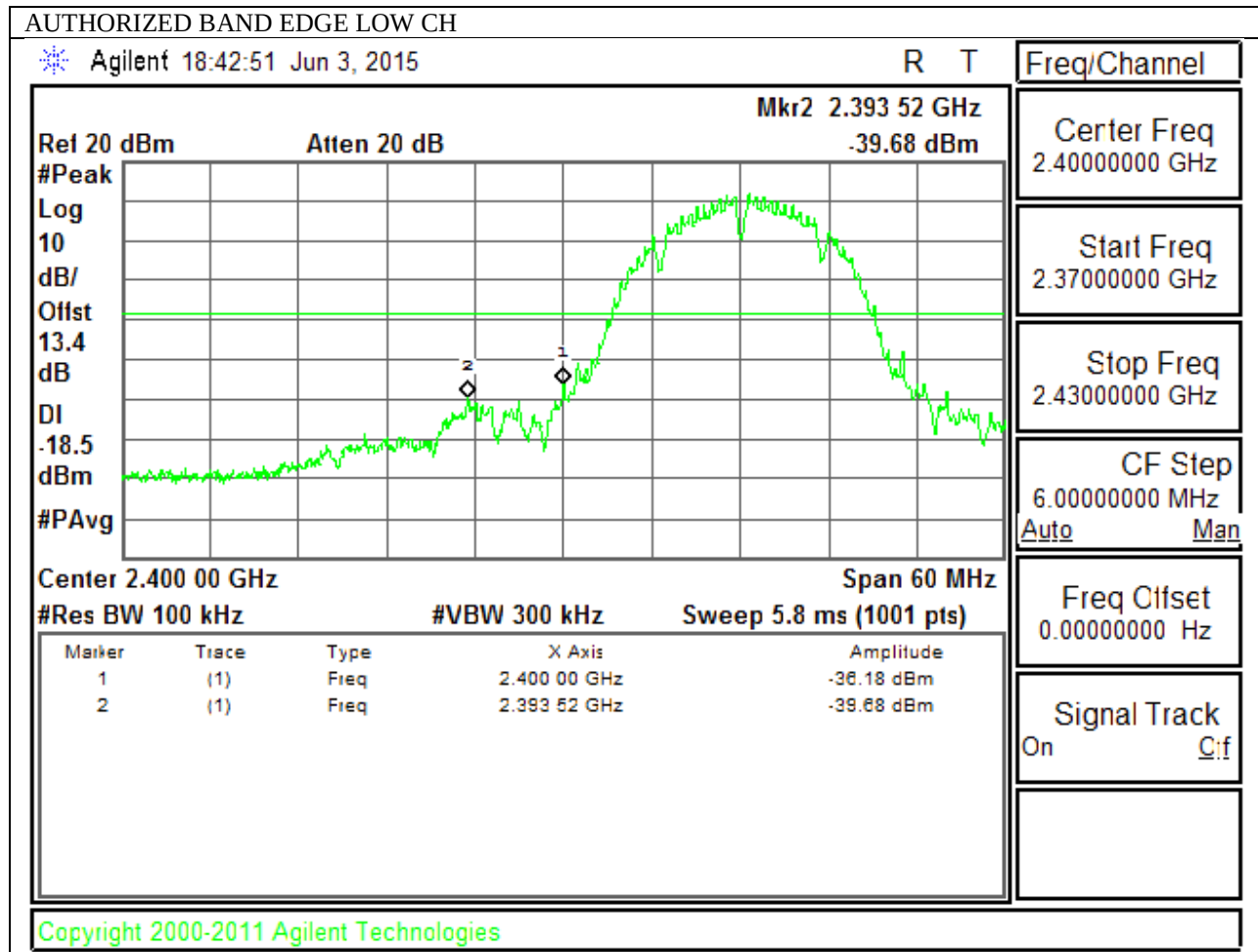
RESULTS

9.5.1. 802.11b MODE IN THE 2.4 GHz BAND

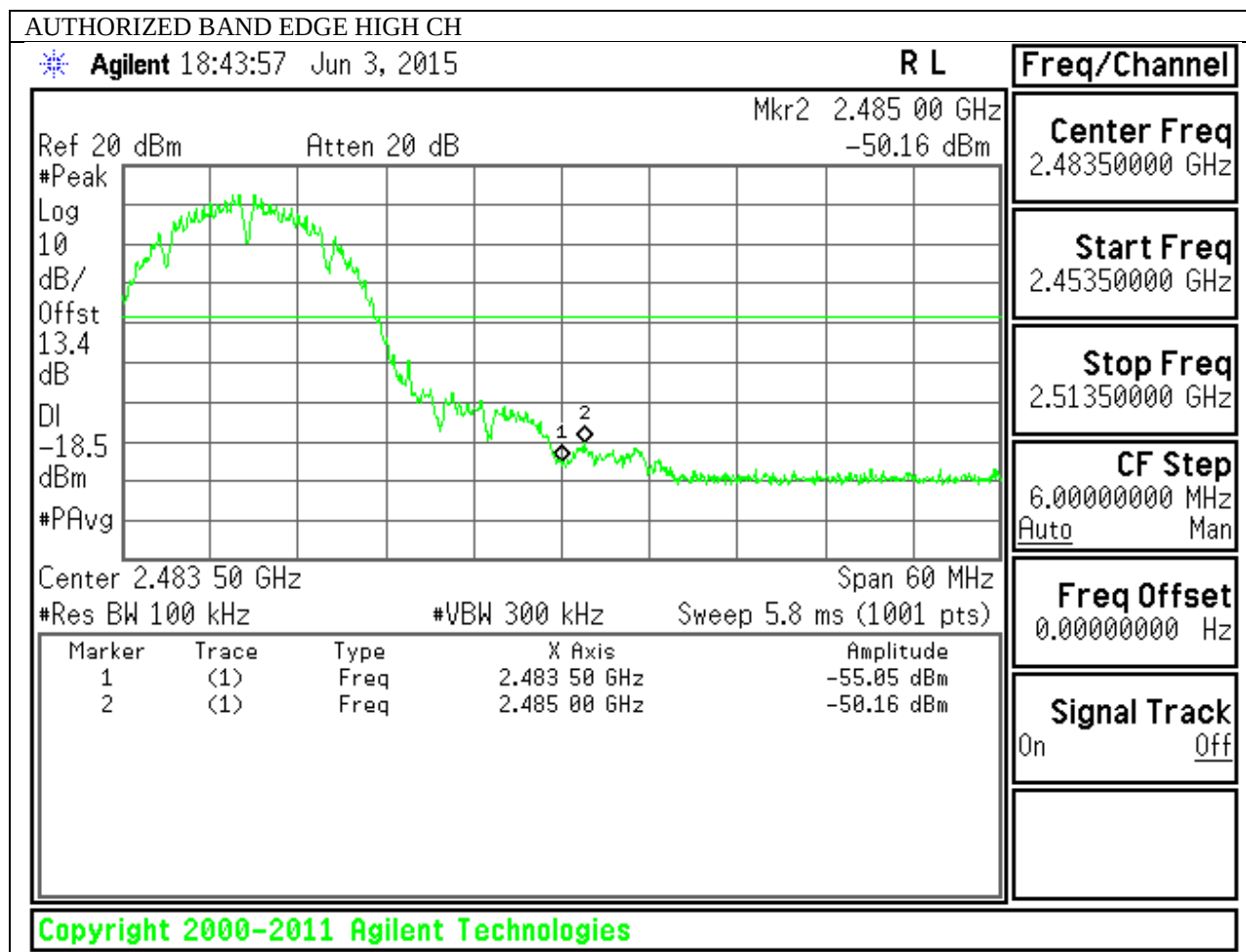
IN-BAND REFERENCE LEVEL



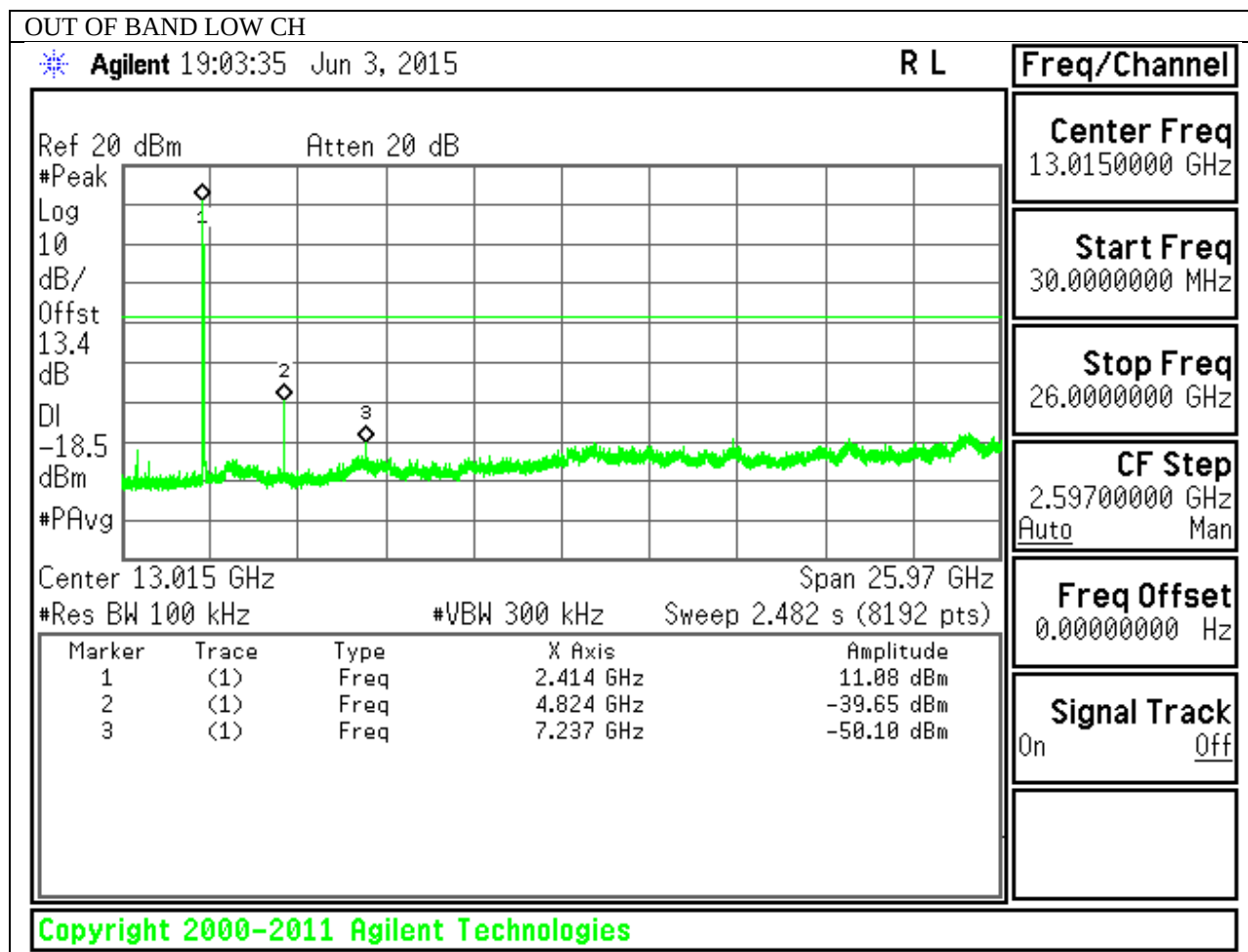
LOW CHANNEL BANDEDGE

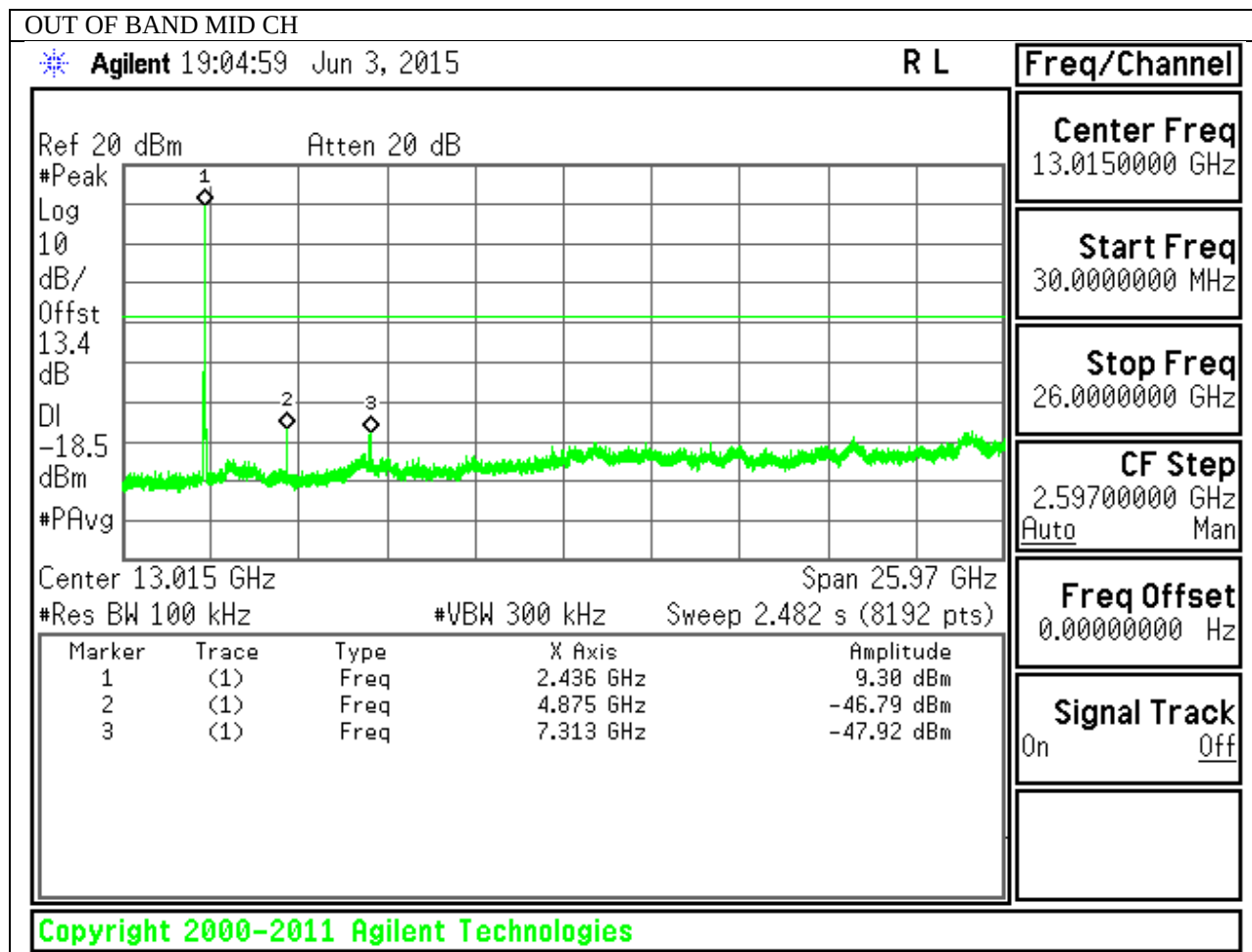


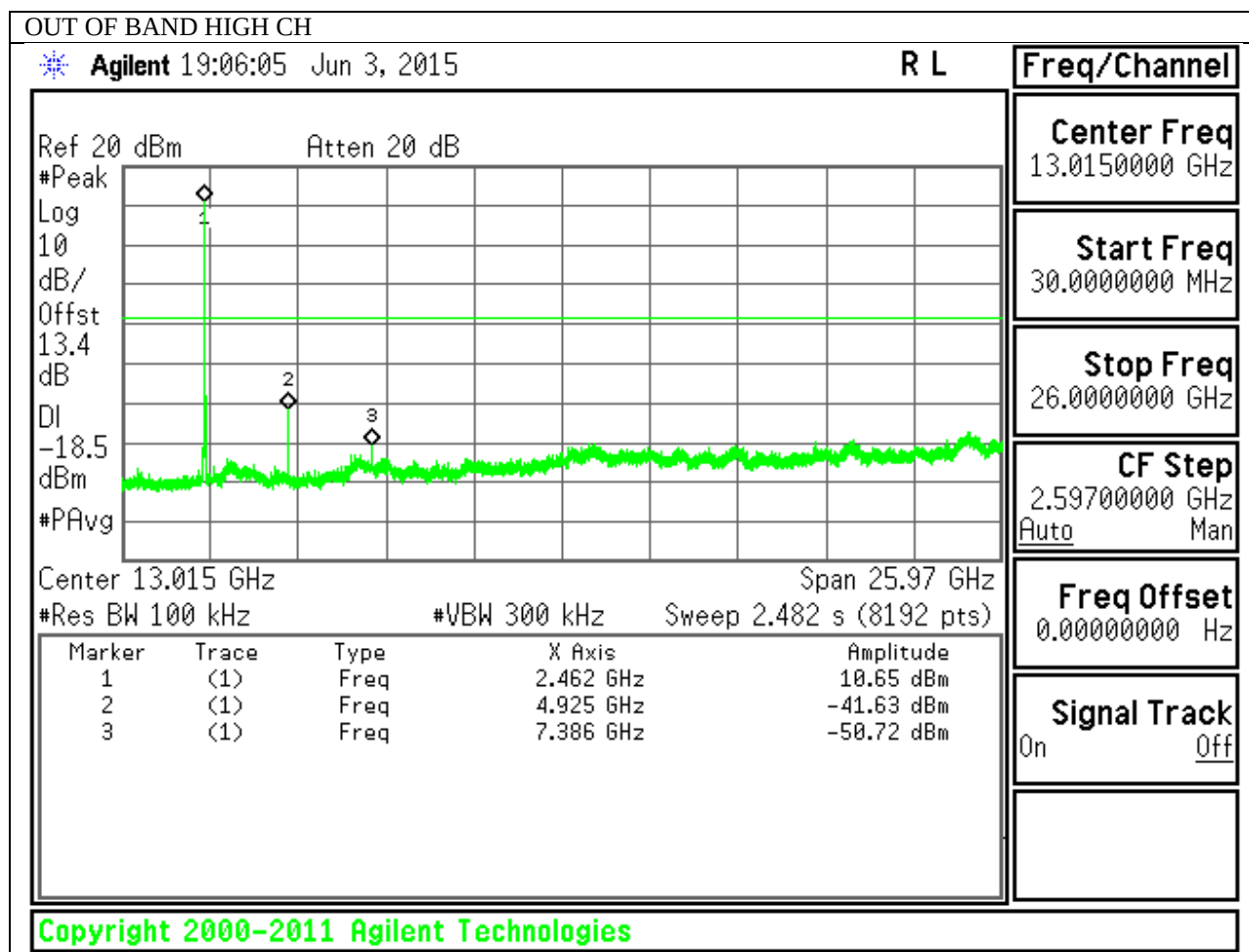
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

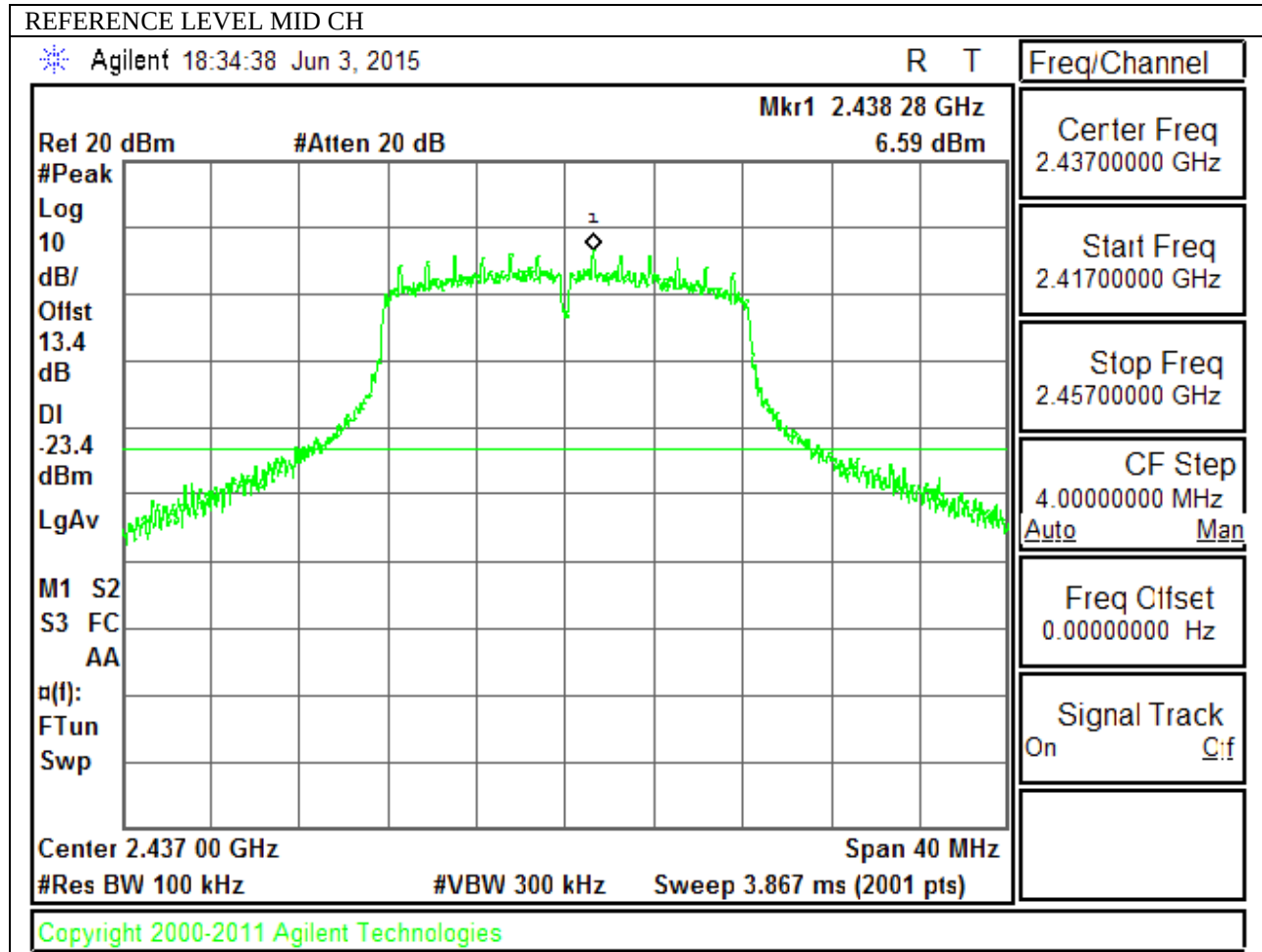




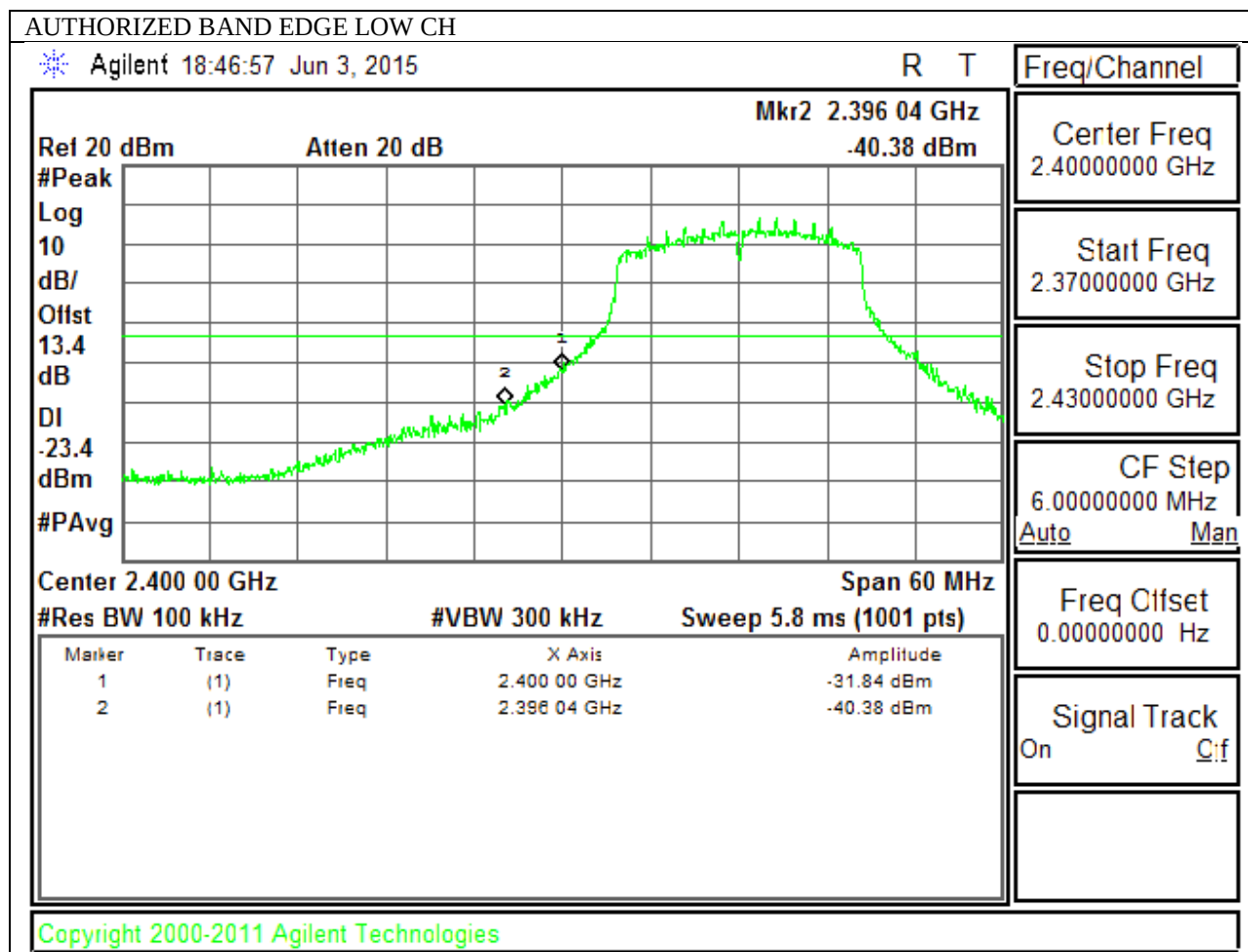


9.5.2. 802.11g MODE IN THE 2.4 GHz BAND

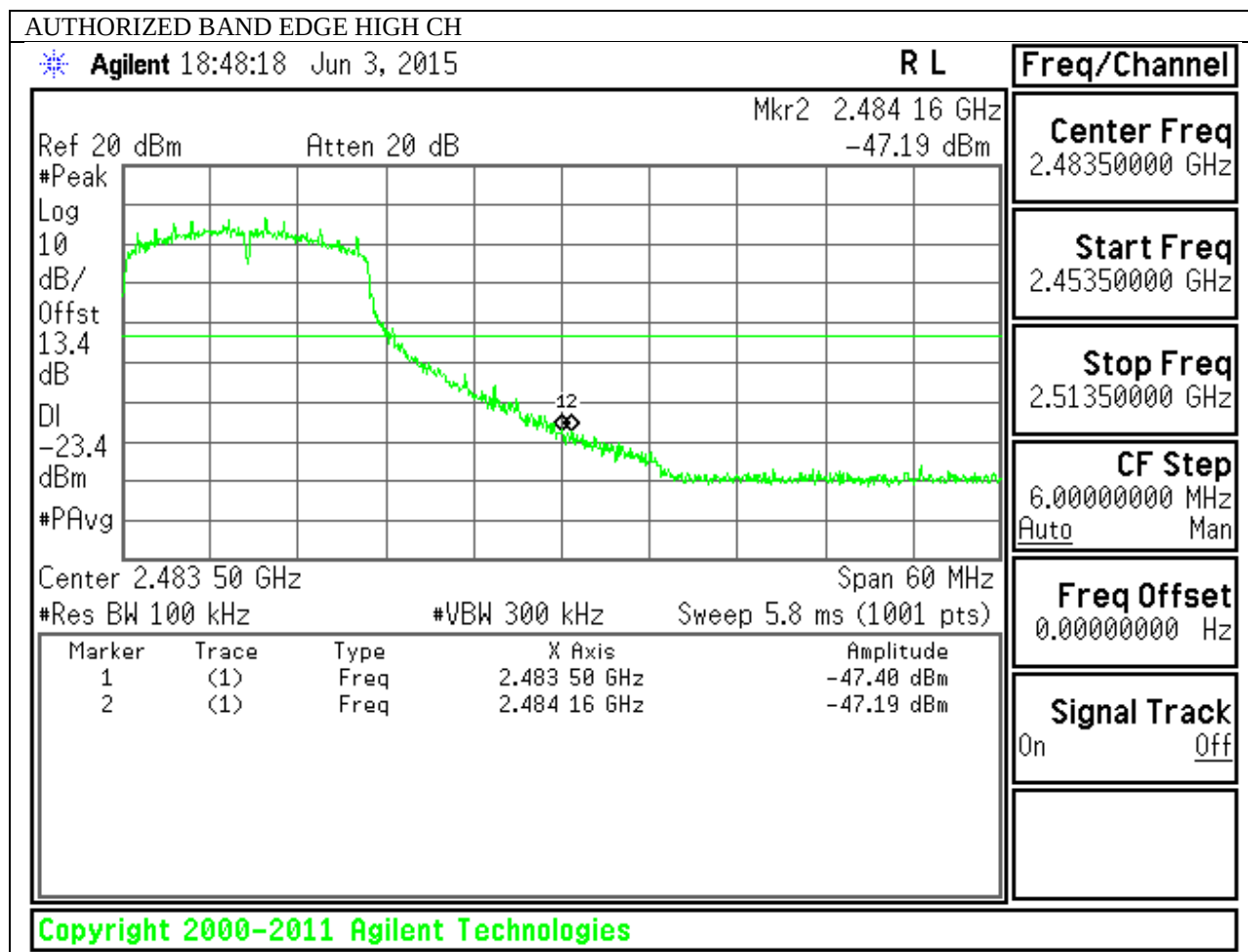
IN-BAND REFERENCE LEVEL



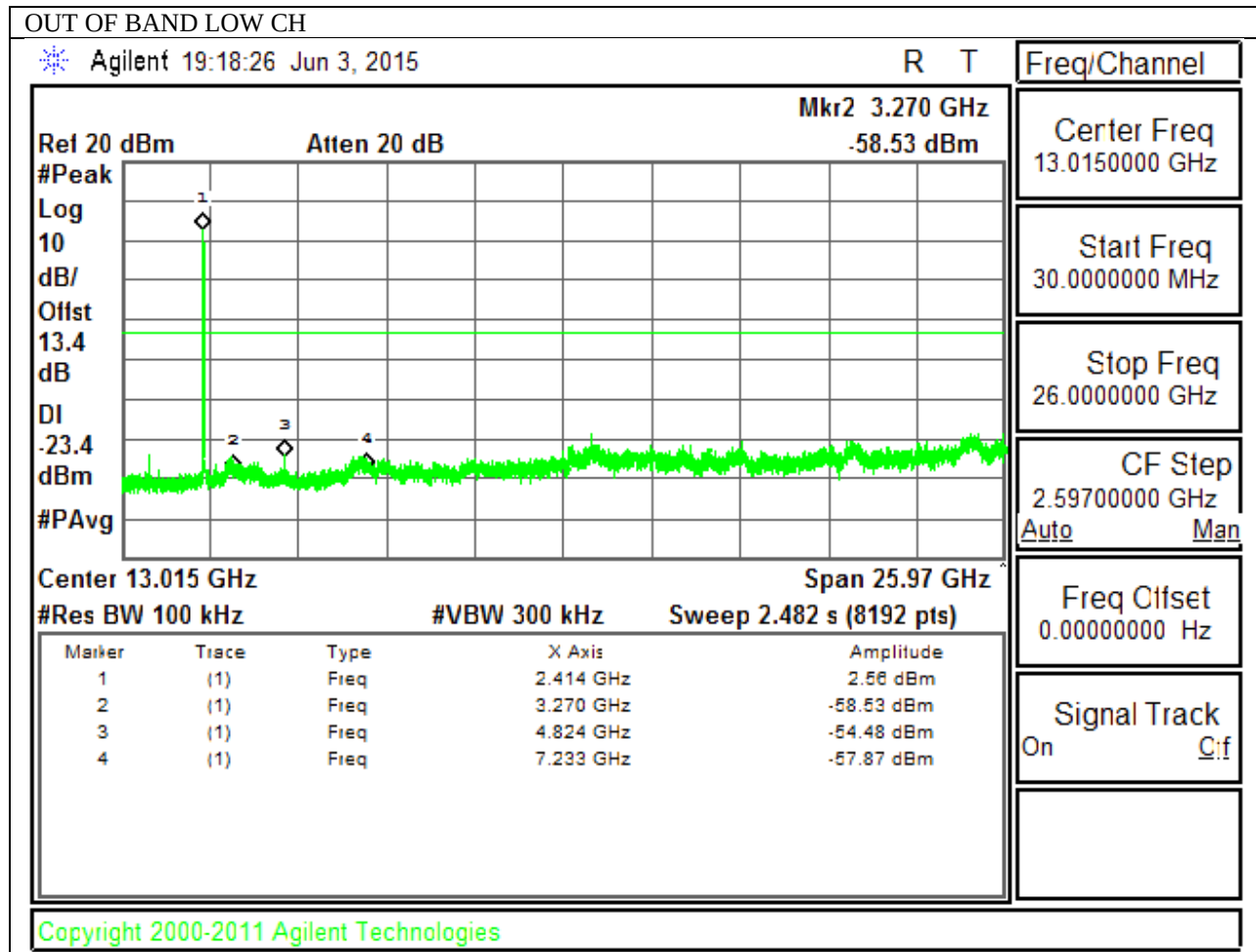
LOW CHANNEL BANDEDGE

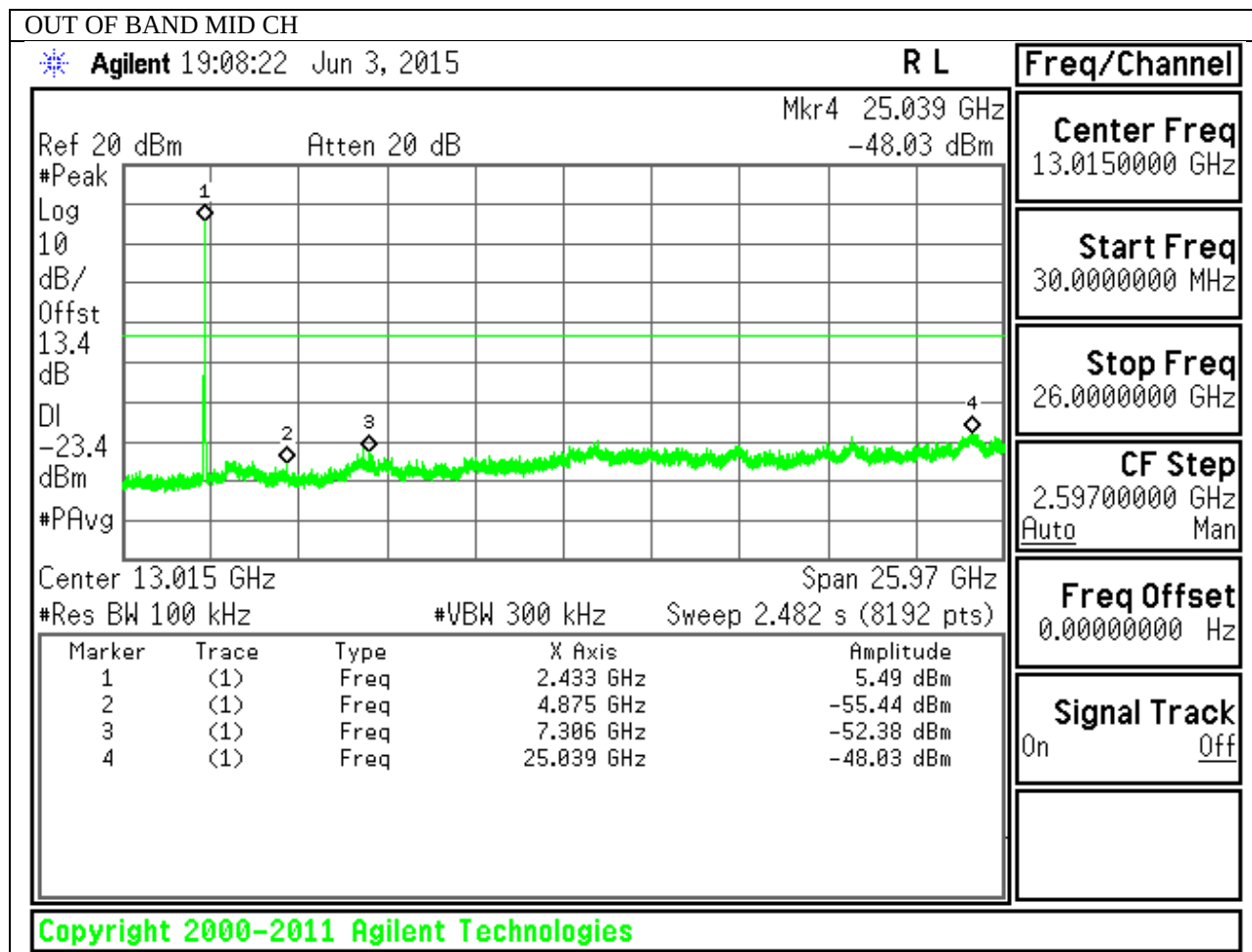


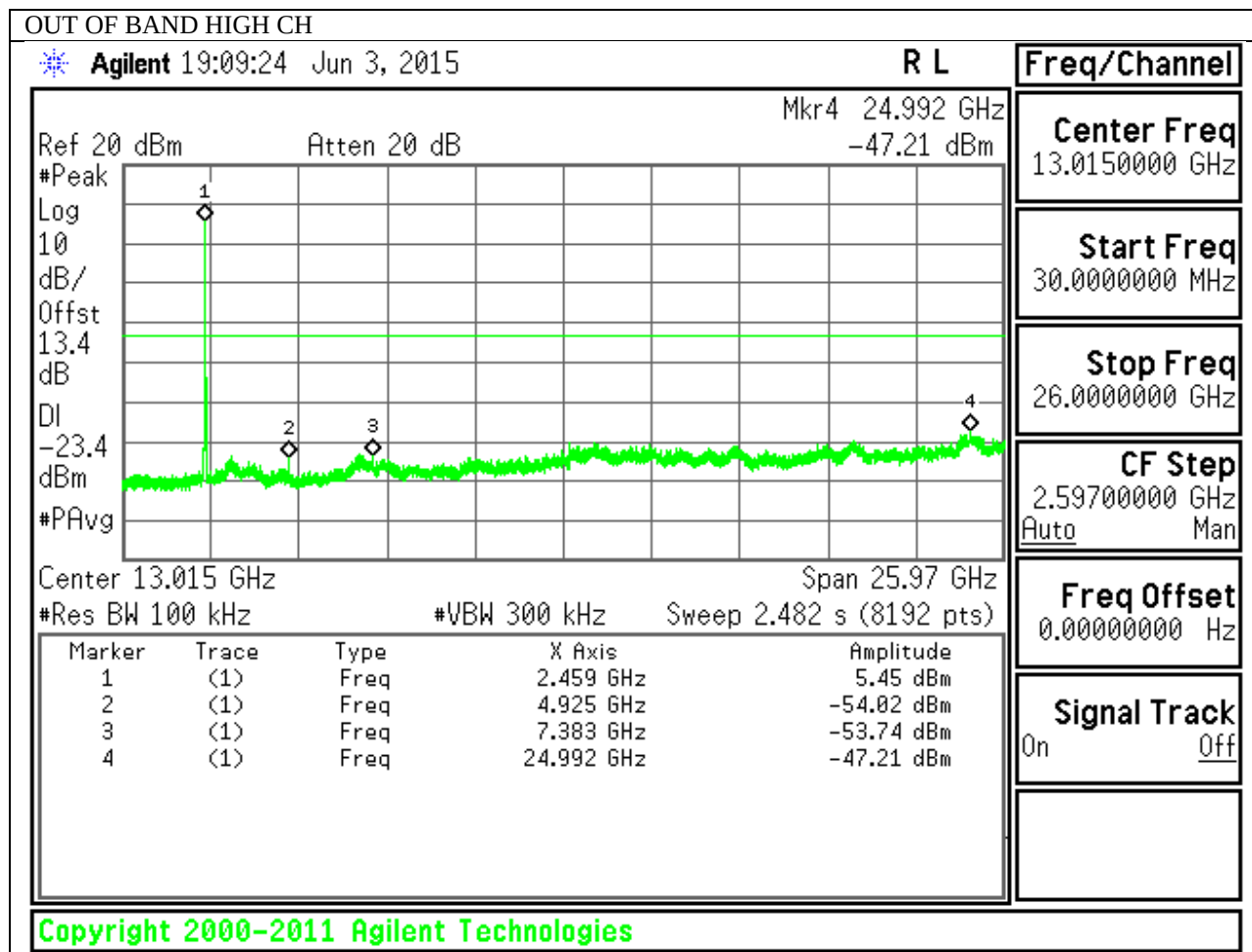
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

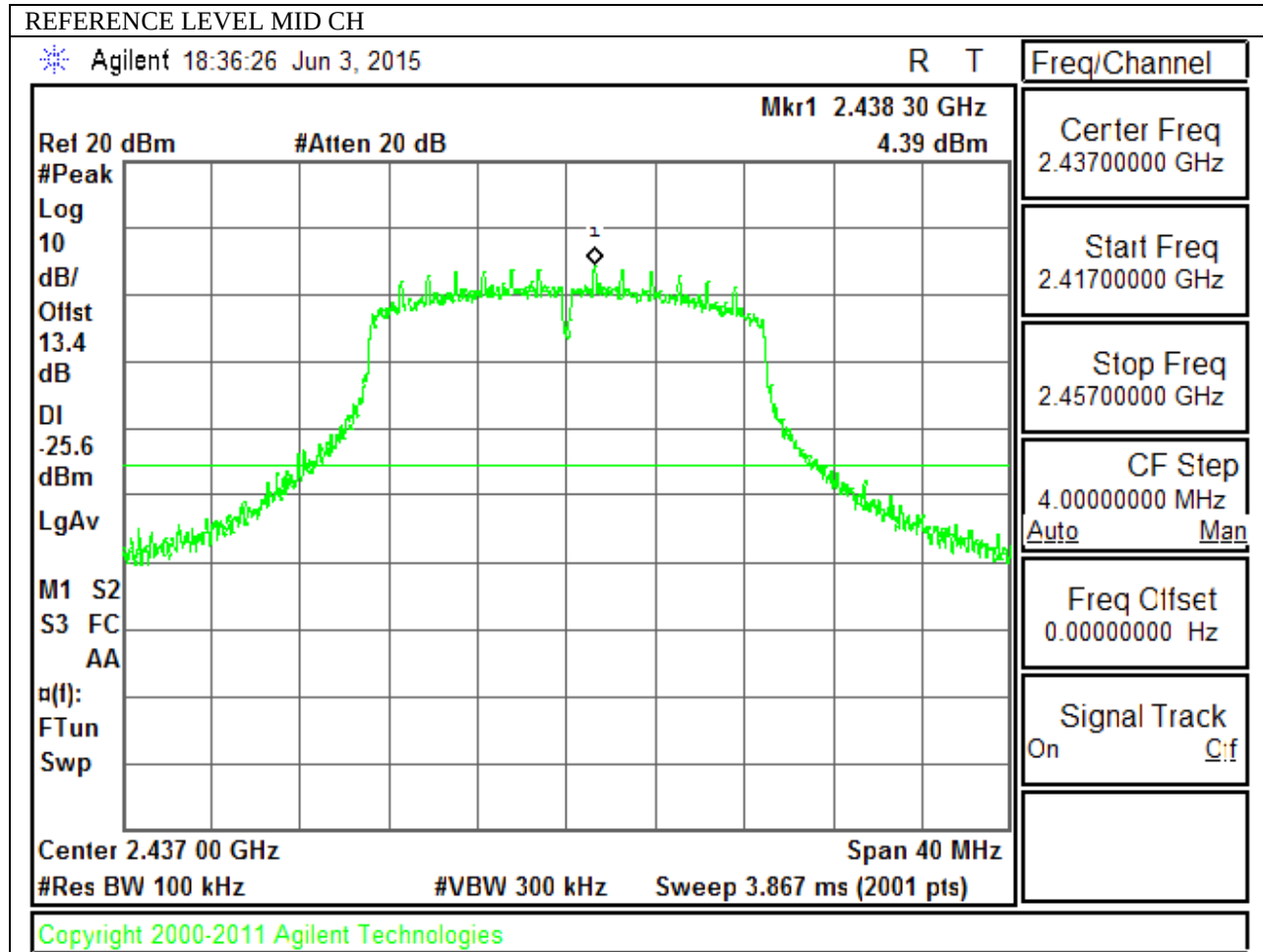




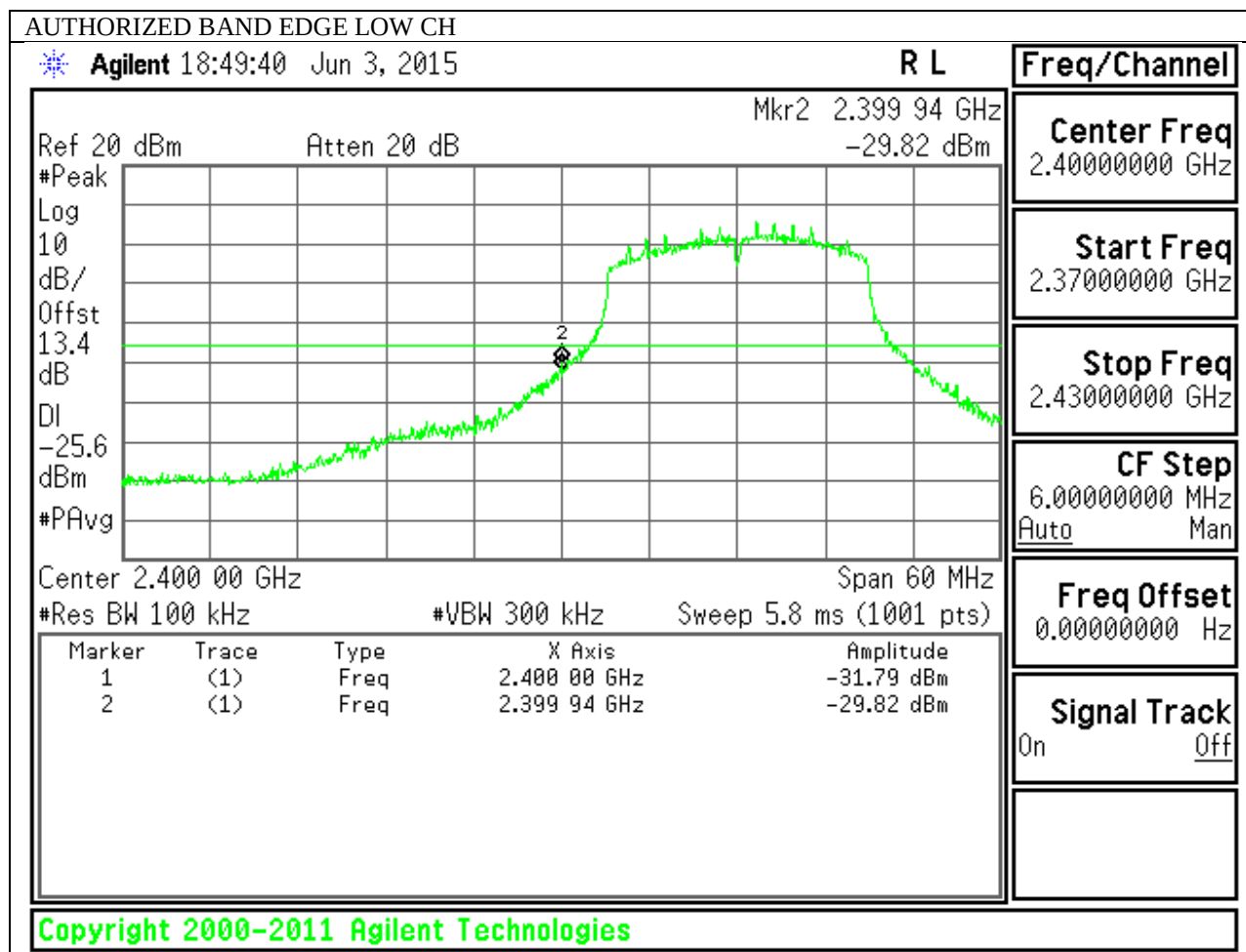


10.1.1. 802.11n HT20 MODE IN THE 2.4 GHz BAND

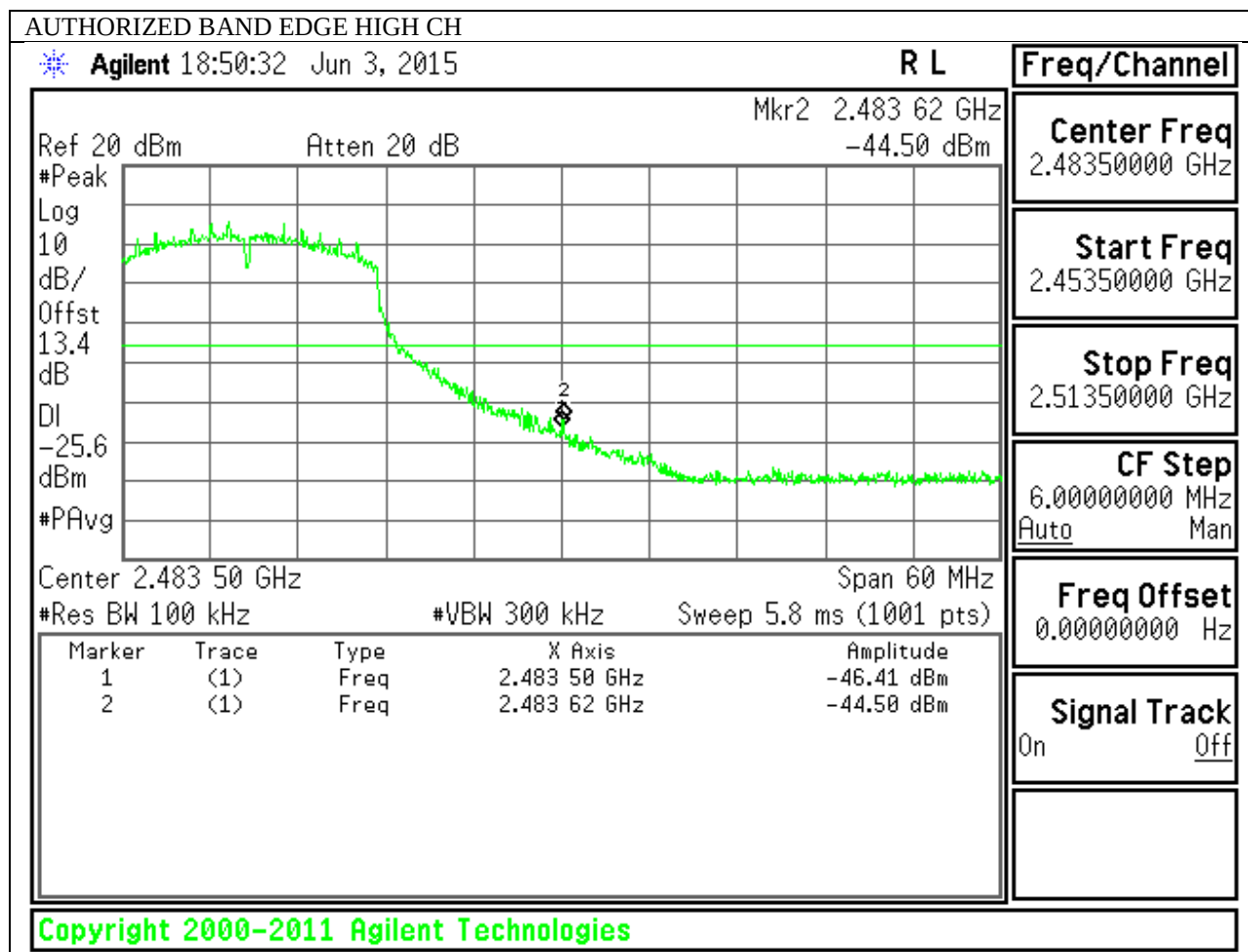
IN-BAND REFERENCE LEVEL



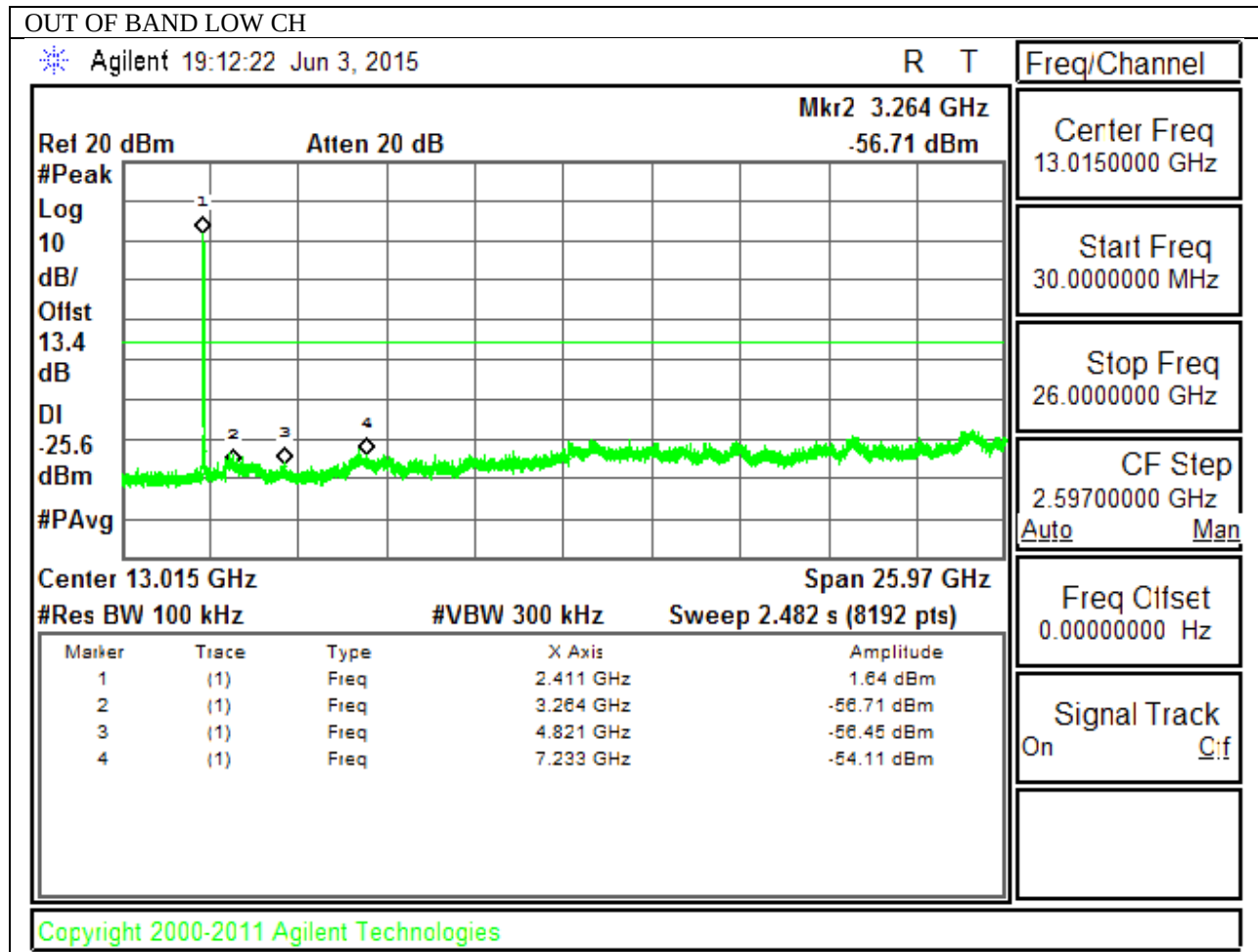
LOW CHANNEL BANDEDGE

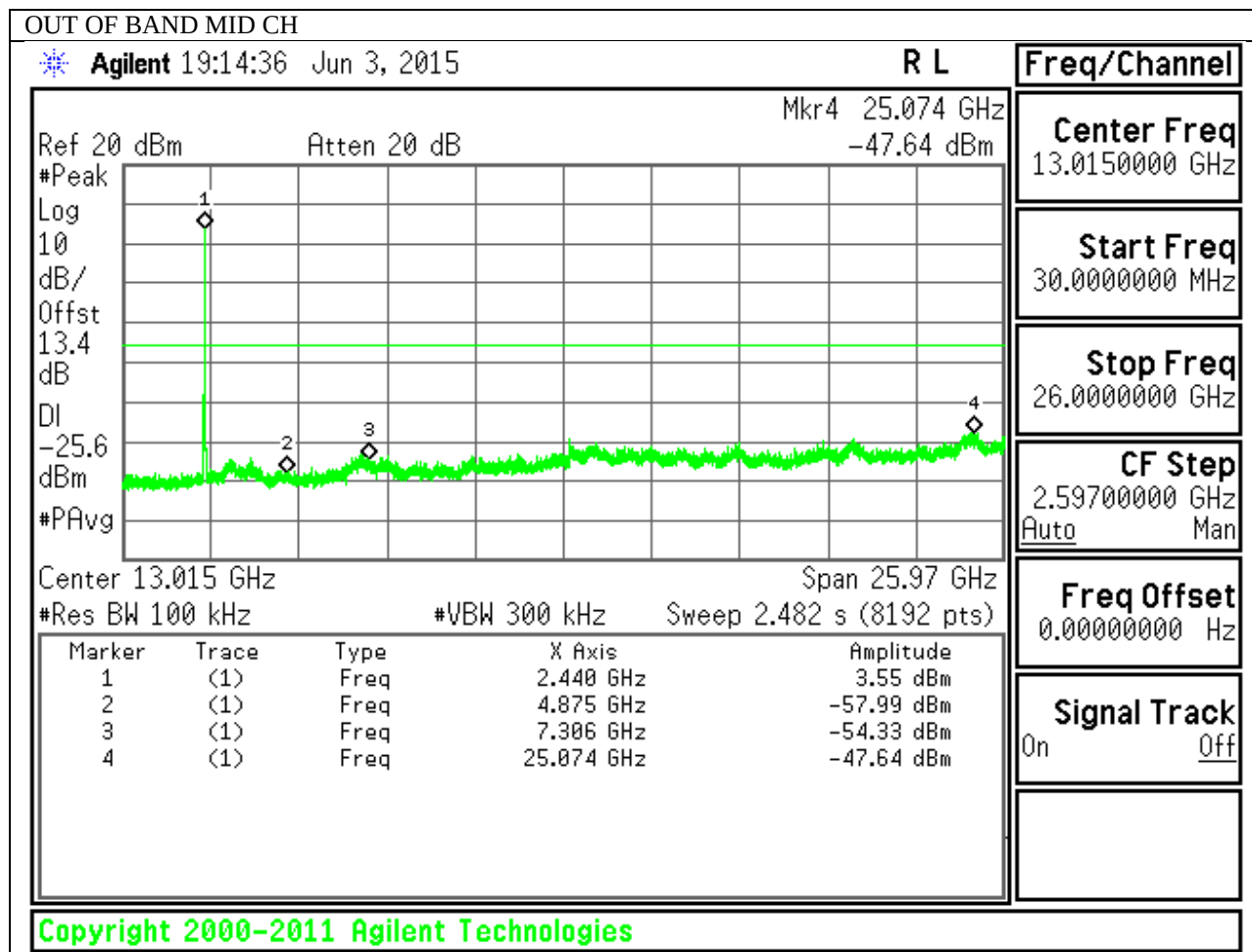


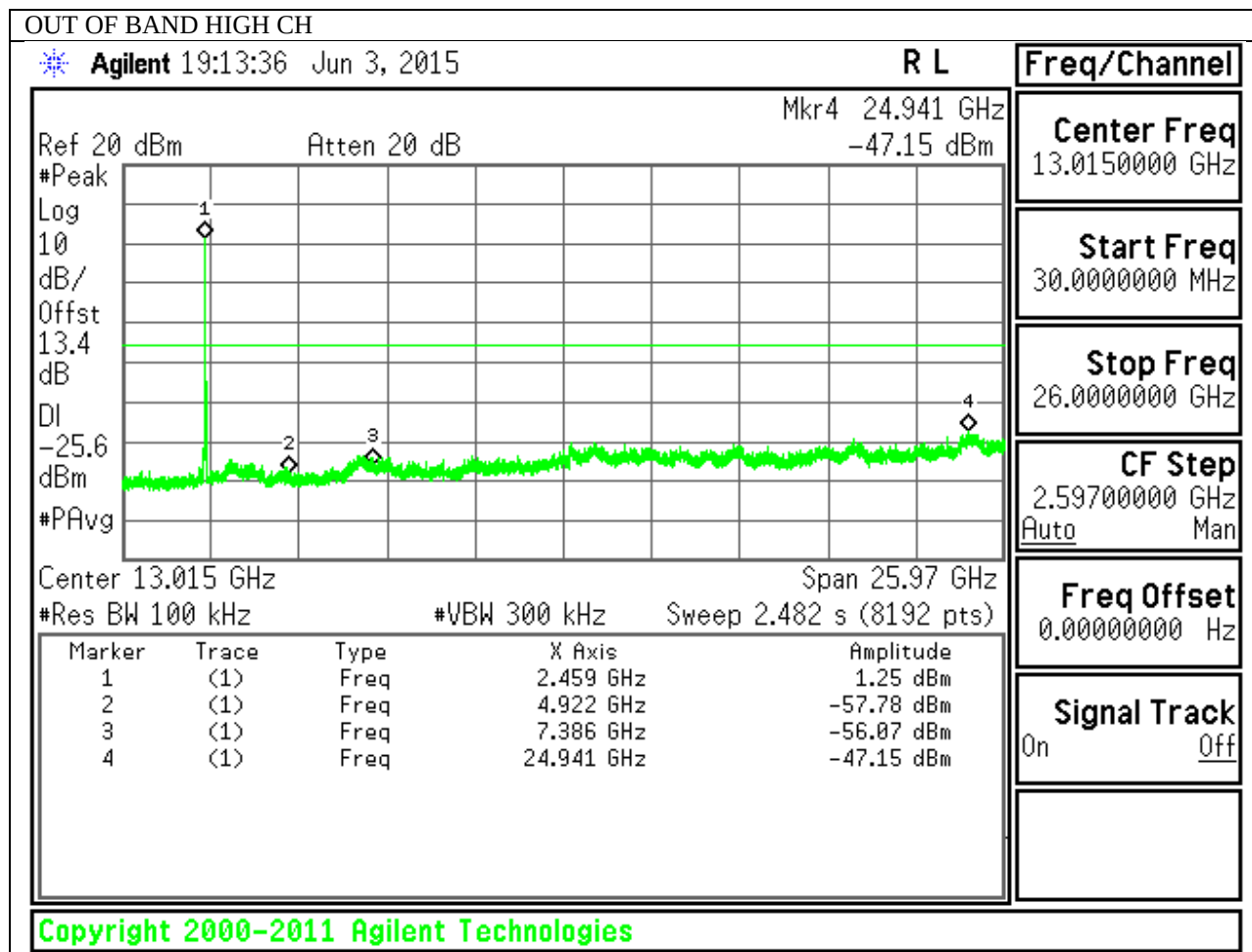
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS







12. RADIATED TEST RESULTS

12.1. LIMITS AND PROCEDURE LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane 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 = 0.31dB.

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.

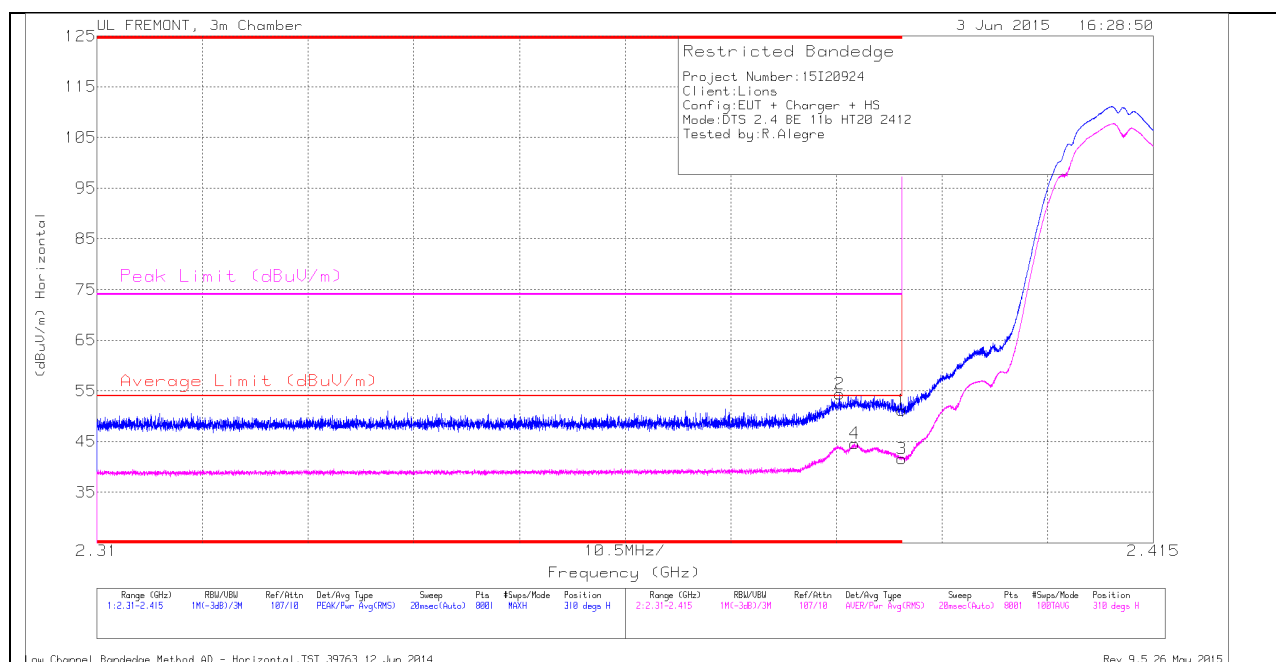
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

12.2. TRANSMITTER ABOVE 1 GHz

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

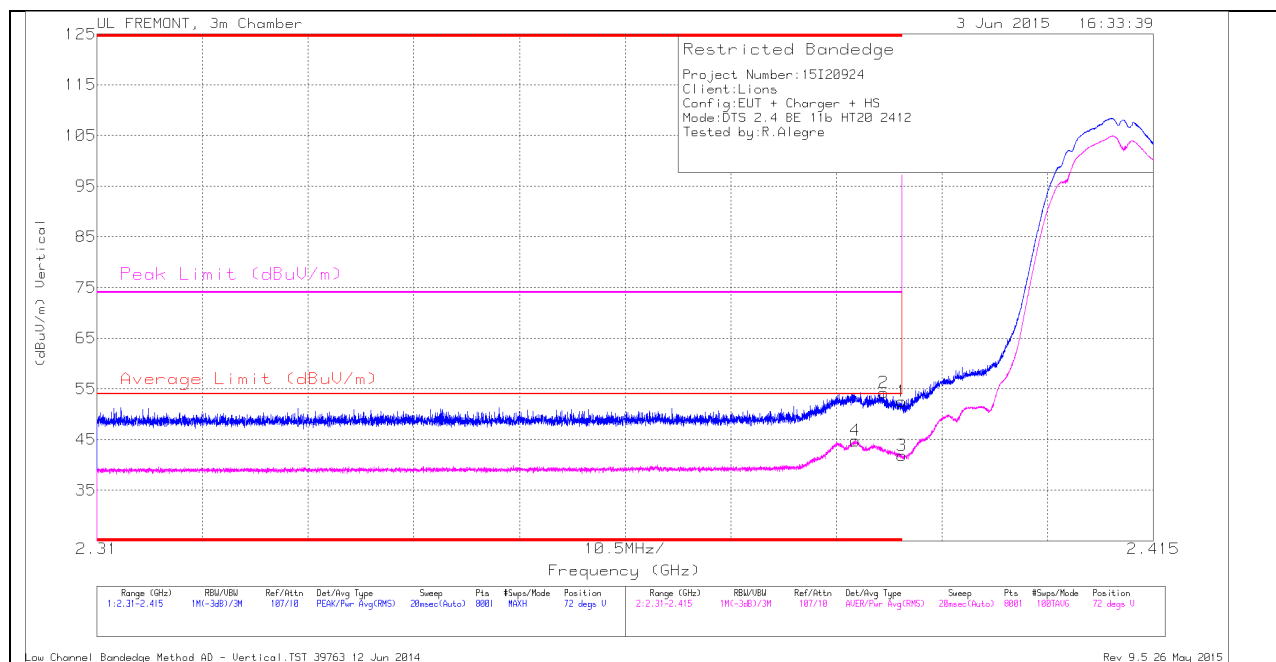
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.52	Pk	32	-22.4	0	51.12	-	-	74	-22.88	310	356	H
2	* 2.384	44.84	Pk	32	-22.4	0	54.44	-	-	74	-19.56	310	356	H
3	* 2.39	32.04	RMS	32	-22.4	0	41.64	54	-12.36	-	-	310	356	H
4	* 2.385	35.04	RMS	32	-22.4	0	44.64	54	-9.36	-	-	310	356	H

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

Pk - Peak detector

RMS - RMS detection

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	42.91	Pk	32	-22.4	0	52.51	-	-	74	-21.49	72	366	V
2	* 2.388	44.62	Pk	32	-22.4	0	54.22	-	-	74	-19.78	72	366	V
3	* 2.39	32.27	RMS	32	-22.4	0	41.87	54	-12.13	-	-	72	366	V
4	* 2.385	35.17	RMS	32	-22.4	0	44.77	54	-9.23	-	-	72	366	V

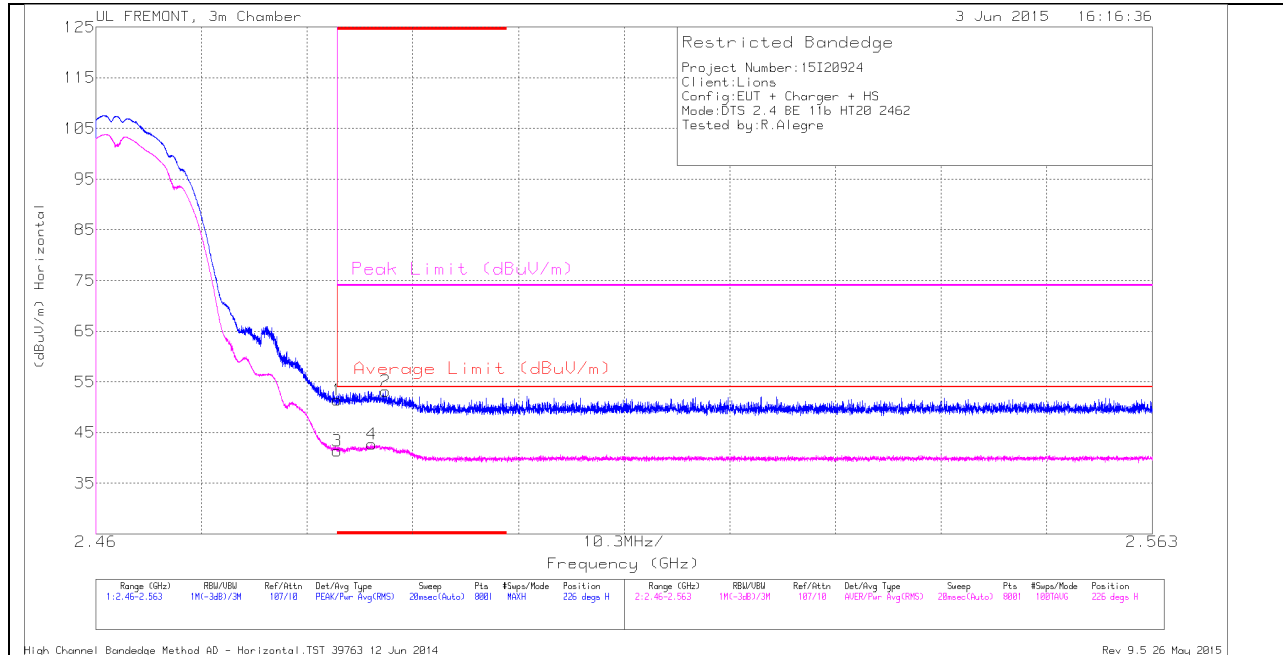
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

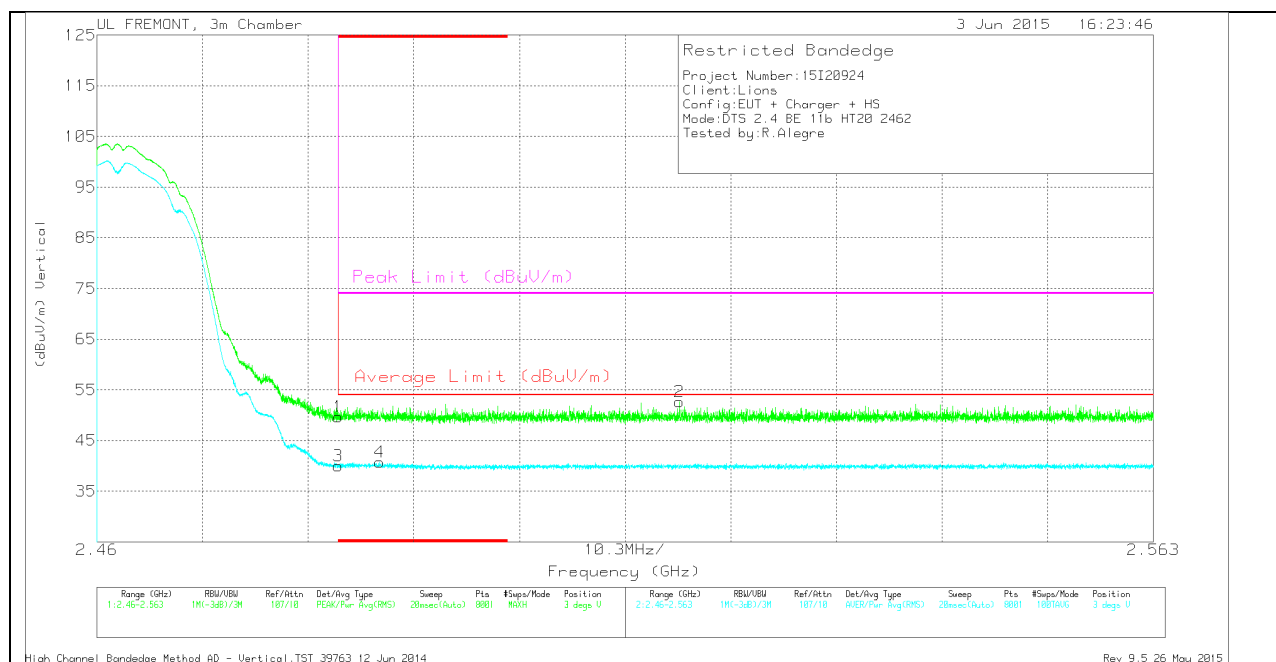
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.17	Pk	32.3	-22.1	0	51.37	-	-	74	-22.63	226	102	H
2	* 2.488	43.07	Pk	32.3	-22.2	0	53.17	-	-	74	-20.83	226	102	H
3	* 2.484	31.12	RMS	32.3	-22.1	0	41.32	54	-12.68	-	-	226	102	H
4	* 2.487	32.6	RMS	32.3	-22.2	0	42.7	54	-11.3	-	-	226	102	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

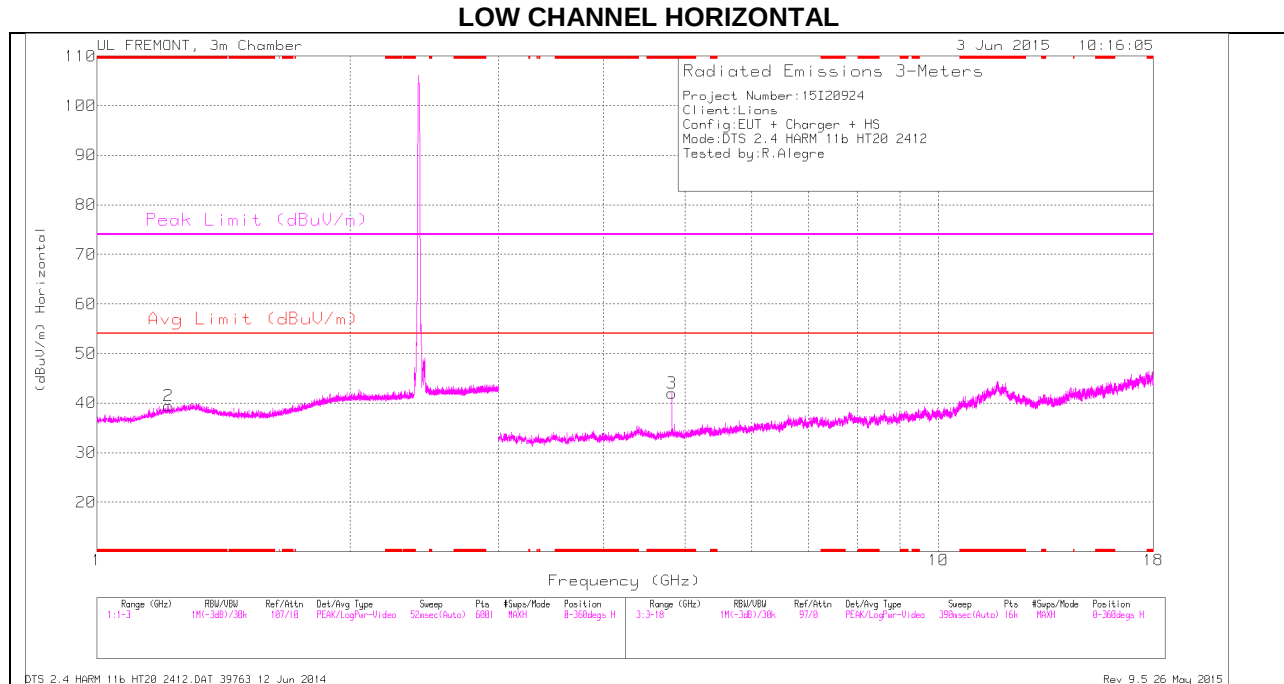
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.5	Pk	32.3	-22.1	0	49.7	-	-	74	-24.3	3	274	V
3	* 2.484	29.76	RMS	32.3	-22.1	0	39.96	54	-14.04	-	-	3	274	V
4	* 2.488	30.58	RMS	32.3	-22.2	0	40.68	54	-13.32	-	-	3	274	V
2	2.517	42.43	Pk	32.3	-22.1	0	52.63	-	-	74	-21.37	3	274	V

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

Pk - Peak detector

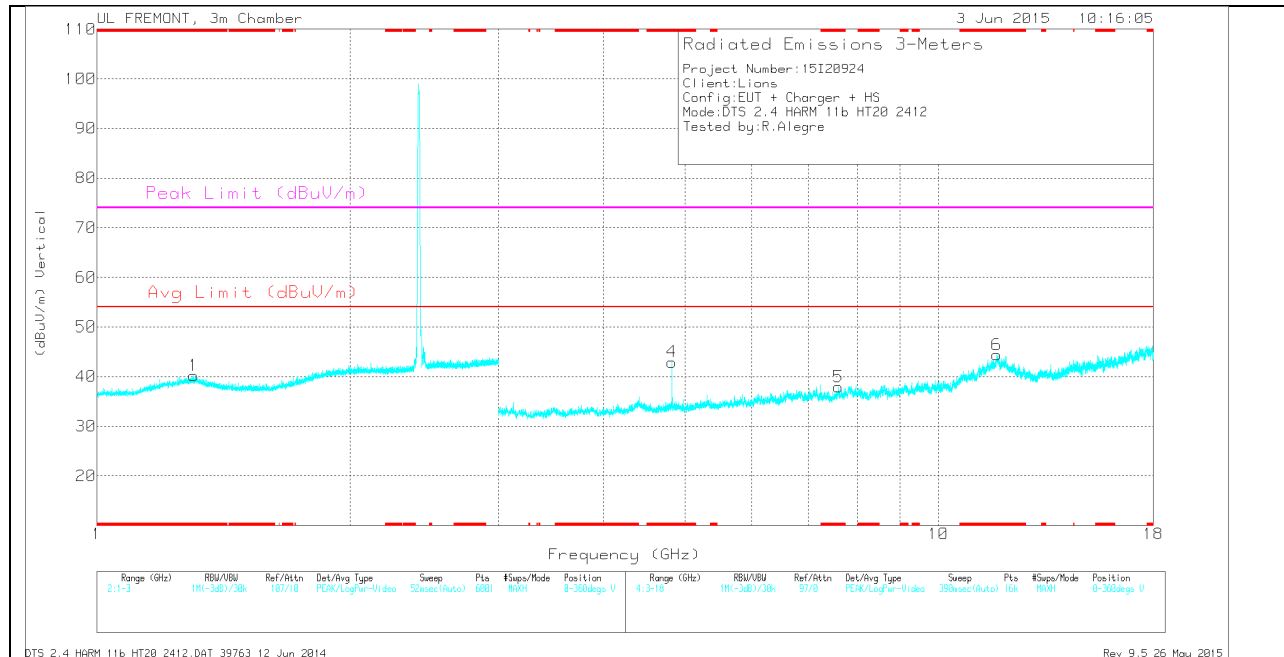
RMS - RMS detection

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.

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/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.217	33.6	Avg	29.1	-23.2	0	39.5	54	-14.5	-	-	0-360	100	H
1	* 1.302	33.56	Avg	29.9	-23.2	0	40.26	54	-13.74	-	-	0-360	200	V
3	* 4.824	37.39	Avg	34	-29.4	0	41.99	54	-12.01	-	-	0-360	100	H
4	* 4.824	38.35	Avg	34	-29.4	0	42.95	54	-11.05	-	-	0-360	200	V
5	* 7.605	28.88	Avg	35.7	-26.7	0	37.88	54	-16.12	-	-	0-360	100	V
6	* 11.734	27.36	Avg	38.9	-21.8	0	44.46	54	-9.54	-	-	0-360	200	V

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

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

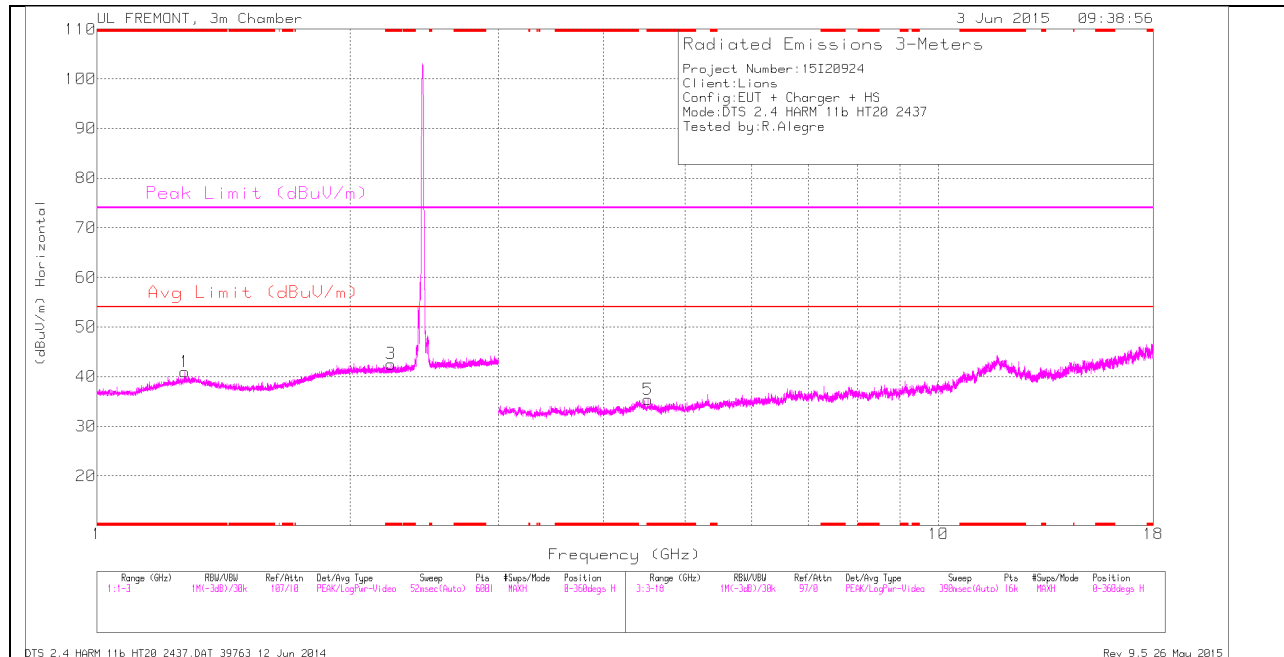
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.218	42.46	PK2	29.1	-23.2	0	48.36	-	-	74	-25.64	0	100	H
* 1.218	30.79	MAV1	29.1	-23.2	0	36.69	54	-17.31	-	-	0	100	H
* 1.302	42.23	PK2	29.9	-23.2	0	48.93	-	-	74	-25.07	0	200	V
* 1.301	30.79	MAV1	29.9	-23.2	0	37.49	54	-16.51	-	-	0	200	V
* 4.824	44.12	PK2	34	-29.4	0	48.72	-	-	74	-25.28	221	221	H
* 4.824	37.54	MAV1	34	-29.4	0	42.14	54	-11.86	-	-	221	221	H
* 11.733	37.87	PK2	38.9	-21.8	0	54.97	-	-	74	-19.03	113	200	V
* 11.736	25.63	MAV1	38.9	-21.8	0	42.73	54	-11.27	-	-	113	200	V
* 4.824	44.36	PK2	34	-29.4	0	48.96	-	-	74	-25.04	123	176	V
* 4.824	37.66	MAV1	34	-29.4	0	42.26	54	-11.74	-	-	123	176	V
* 7.604	38.48	PK2	35.7	-26.7	0	47.48	-	-	74	-26.52	221	100	V
* 7.603	26.95	MAV1	35.7	-26.7	0	35.95	54	-18.05	-	-	221	100	V

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

PK2 - KDB558074 Method: Maximum Peak

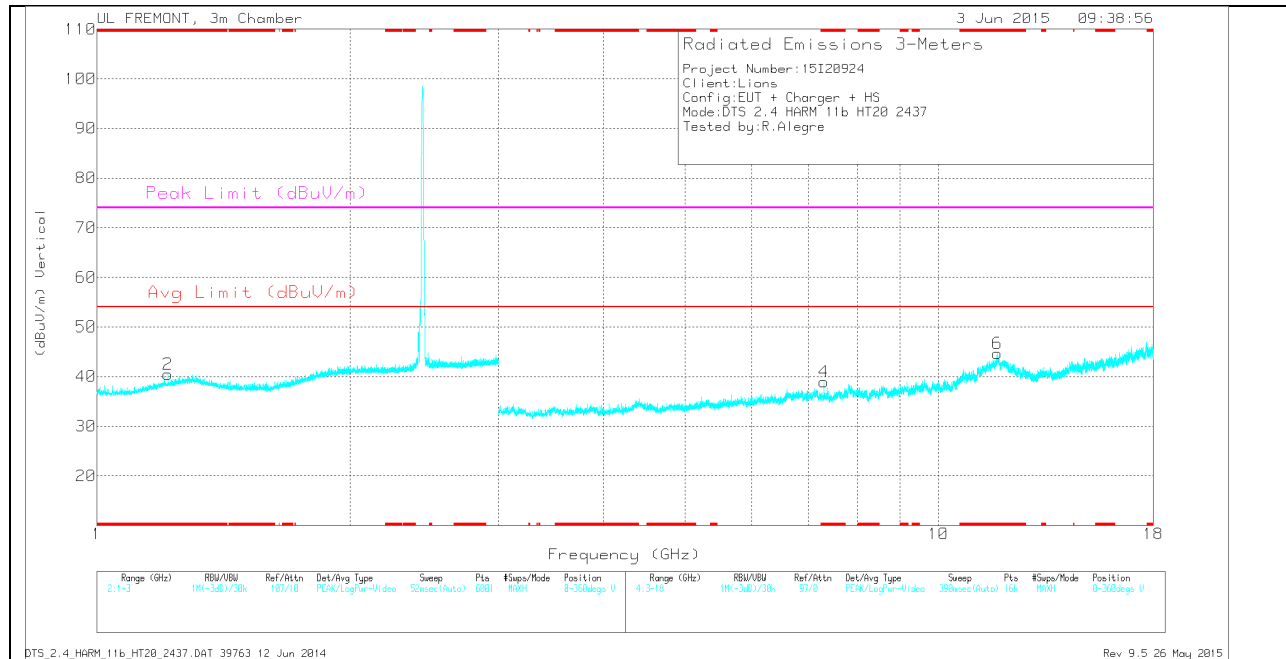
MAV1 - KDB558074 Option 1 Maximum RMS Average

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/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.272	34.64	Avg	29.6	-23.2	0	41.04	54	-12.96	-	-	0-360	200	H
3	* 2.236	33.37	Avg	31.5	-22.3	0	42.57	54	-11.43	-	-	0-360	200	H
2	* 1.214	34.52	Avg	29.1	-23.2	0	40.42	54	-13.58	-	-	0-360	100	V
5	* 4.519	32.39	Avg	33.8	-30.8	0	35.39	54	-18.61	-	-	0-360	100	H
4	* 7.313	30.66	Avg	35.6	-27.3	0	38.96	54	-15.04	-	-	0-360	200	V
6	* 11.74	27.61	Avg	38.9	-21.8	0	44.71	54	-9.29	-	-	0-360	200	V

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

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.272	42.46	PK2	29.6	-23.2	0	48.86	-	-	74	-25.14	221	200	H
* 1.272	30.88	MAV1	29.6	-23.2	0	37.28	54	-16.72	-	-	221	200	H
* 2.237	42.31	PK2	31.5	-22.3	0	51.51	-	-	74	-22.49	221	200	H
* 2.235	30.37	MAV1	31.5	-22.3	0	39.57	54	-14.43	-	-	221	200	H
* 1.215	42.62	PK2	29.1	-23.2	0	48.52	-	-	74	-25.48	221	100	V
* 1.213	30.88	MAV1	29.1	-23.2	0	36.78	54	-17.22	-	-	221	100	V
* 4.517	40.58	PK2	33.8	-30.8	0	43.58	-	-	74	-30.42	221	100	H
* 4.517	29.01	MAV1	33.8	-30.8	0	32.01	54	-21.99	-	-	221	100	H
* 11.738	28.05	Av	38.9	-21.8	0	45.15	-	-	-	-	113	200	V
* 11.742	37.83	PK2	38.9	-21.8	0	54.93	-	-	74	-19.07	113	200	V
* 11.74	26.01	MAV1	38.9	-21.8	0	43.11	54	-10.89	-	-	113	200	V
* 11.742	37.64	PK2	38.9	-21.8	0	54.74	-	-	74	-19.26	39	327	V
* 11.738	25.14	MAV1	38.9	-21.8	0	42.24	54	-11.76	-	-	39	327	V
* 7.312	40.27	PK2	35.6	-27.4	0	48.47	-	-	74	-25.53	45	102	V
* 7.312	29.28	MAV1	35.6	-27.4	0	37.48	54	-16.52	-	-	45	102	V

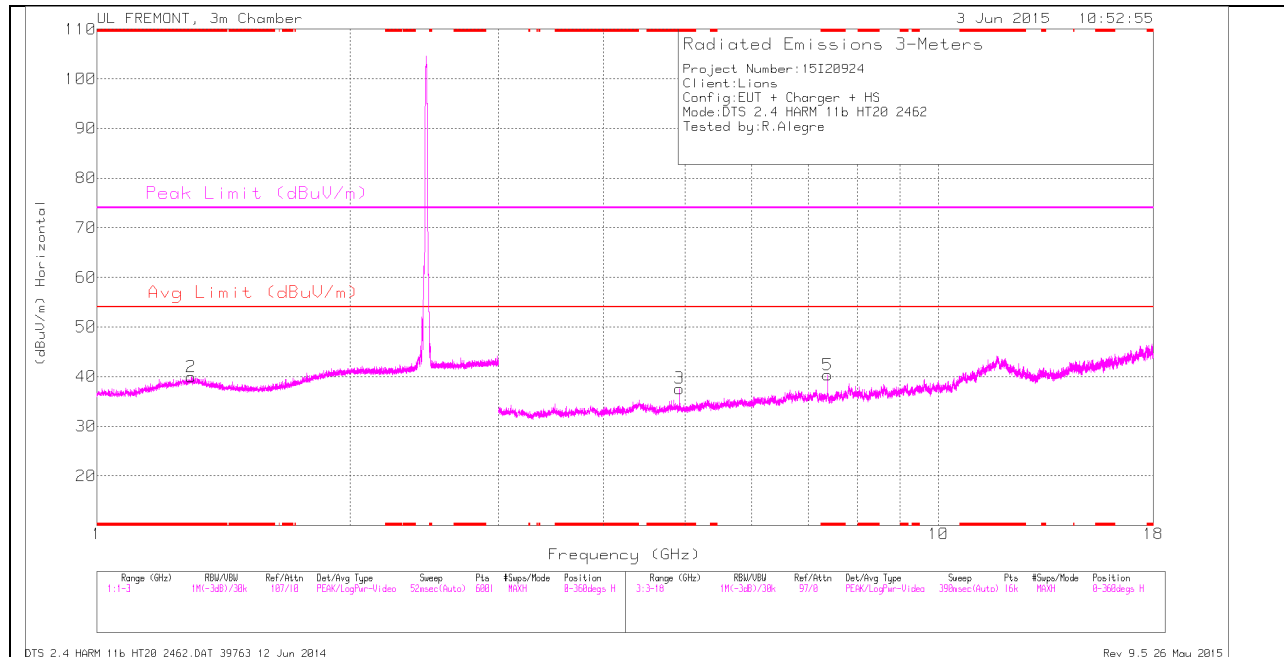
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Av - Average detection

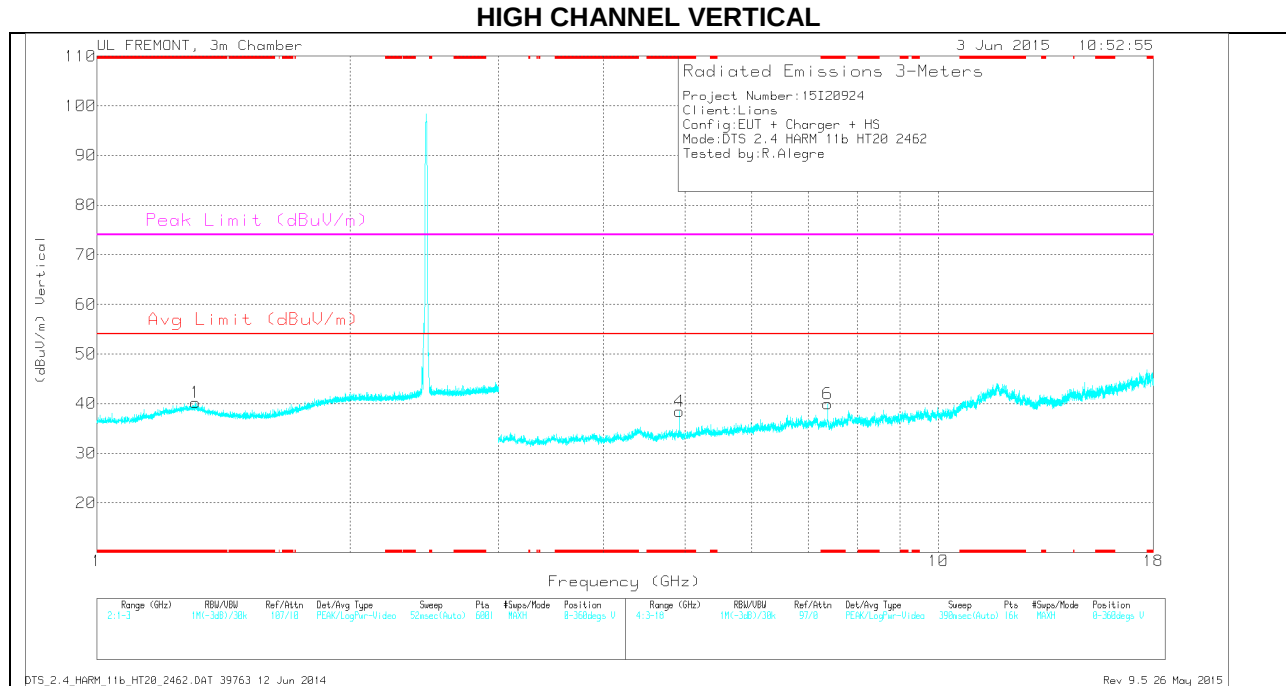
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

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 T119 (dB/m)	Amp/Cbl/ Fitr/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	* 1.294	33.33	Avg	29.8	-23.2	39.93	54	-14.07	-	-	0-360	100	H
1	* 1.309	33.49	Avg	29.8	-23.1	40.19	54	-13.81	-	-	0-360	100	V
3	* 4.924	33.22	Avg	34	-29.6	37.62	54	-16.38	-	-	0-360	200	H
5	* 7.386	31.82	Avg	35.6	-27.1	40.32	54	-13.68	-	-	0-360	200	H
4	* 4.924	34	Avg	34	-29.6	38.4	54	-15.6	-	-	0-360	100	V
6	* 7.385	31.5	Avg	35.6	-27.1	40	54	-14	-	-	0-360	200	V

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

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.295	42.78	PK2	29.8	-23.2	49.38	-	-	74	-24.62	221	100	H
* 1.294	30.79	MAV1	29.8	-23.2	37.39	54	-16.61	-	-	221	100	H
* 1.308	42.8	PK2	29.8	-23.1	49.5	-	-	74	-24.5	221	100	V
* 1.309	30.92	MAV1	29.8	-23.1	37.62	54	-16.38	-	-	221	100	V
* 1.213	30.88	MAV1	29.1	-23.2	36.78	54	-17.22	-	-	221	100	V
* 7.386	42.16	PK2	35.6	-27.1	50.66	-	-	74	-23.34	266	164	H
* 7.385	33.11	MAV1	35.6	-27.1	41.61	54	-12.39	-	-	266	164	H
* 4.924	41.89	PK2	34	-29.6	46.29	-	-	74	-27.71	171	200	H
* 4.924	32.83	MAV1	34	-29.6	37.23	54	-16.77	-	-	171	200	H
* 4.517	40.58	PK2	33.8	-30.8	43.58	-	-	74	-30.42	221	100	H
* 4.517	29.01	MAV1	33.8	-30.8	32.01	54	-21.99	-	-	221	100	H
* 4.924	43.21	PK2	34	-29.6	47.61	-	-	74	-26.39	174	108	V
* 4.924	34.89	MAV1	34	-29.6	39.29	54	-14.71	-	-	174	108	V
* 7.387	40.02	PK2	35.6	-27.1	48.52	-	-	74	-25.48	171	200	V
* 7.387	29.09	MAV1	35.6	-27.1	37.59	54	-16.41	-	-	171	200	V

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

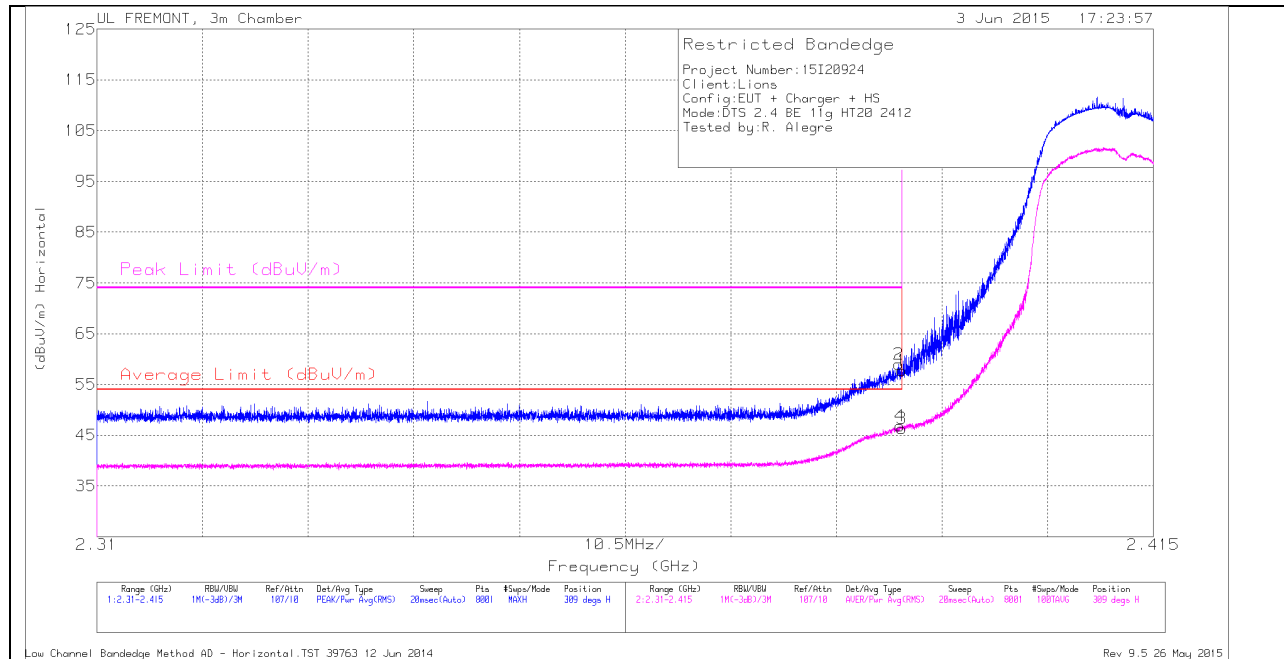
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



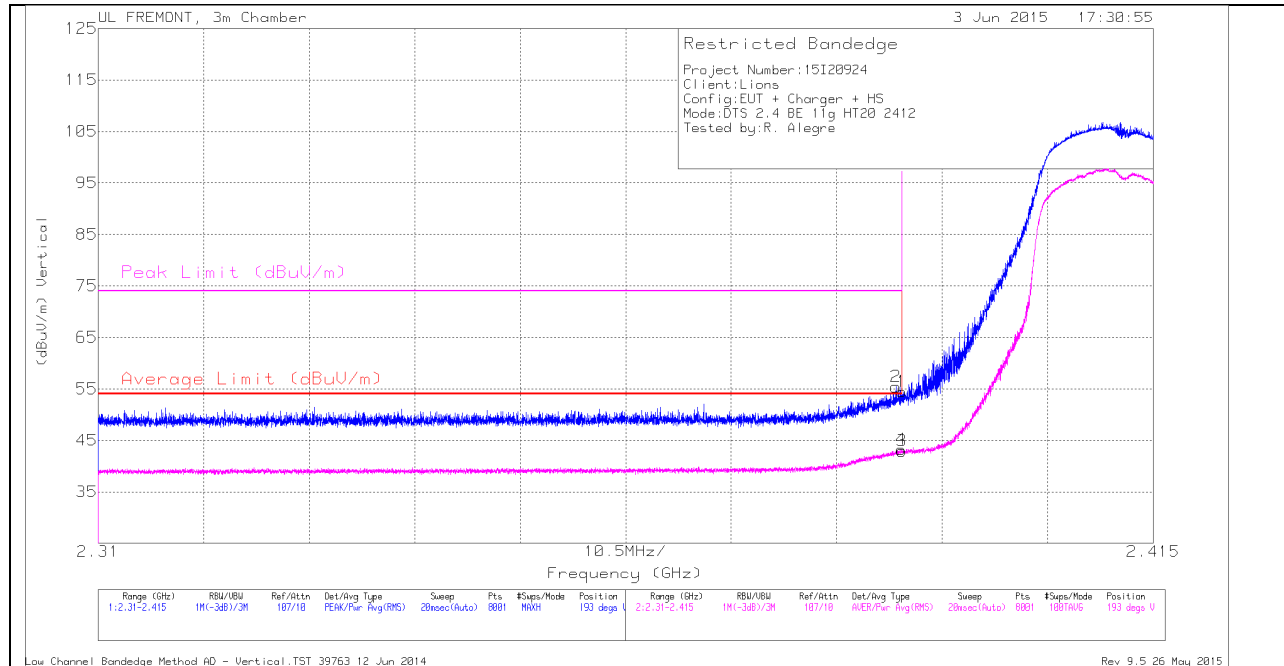
HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/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	48.12	Pk	32	-22.4	0	57.72	-	-	74	-16.28	309	287	H
2	2.39	49.43	Pk	32	-22.4	0	59.03	-	-	74	-14.97	309	287	H
3	2.39	36.77	RMS	32	-22.4	.29	46.66	54	-7.34	-	-	309	287	H
4	2.39	37.18	RMS	32	-22.4	.29	47.07	54	-6.93	-	-	309	287	H

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

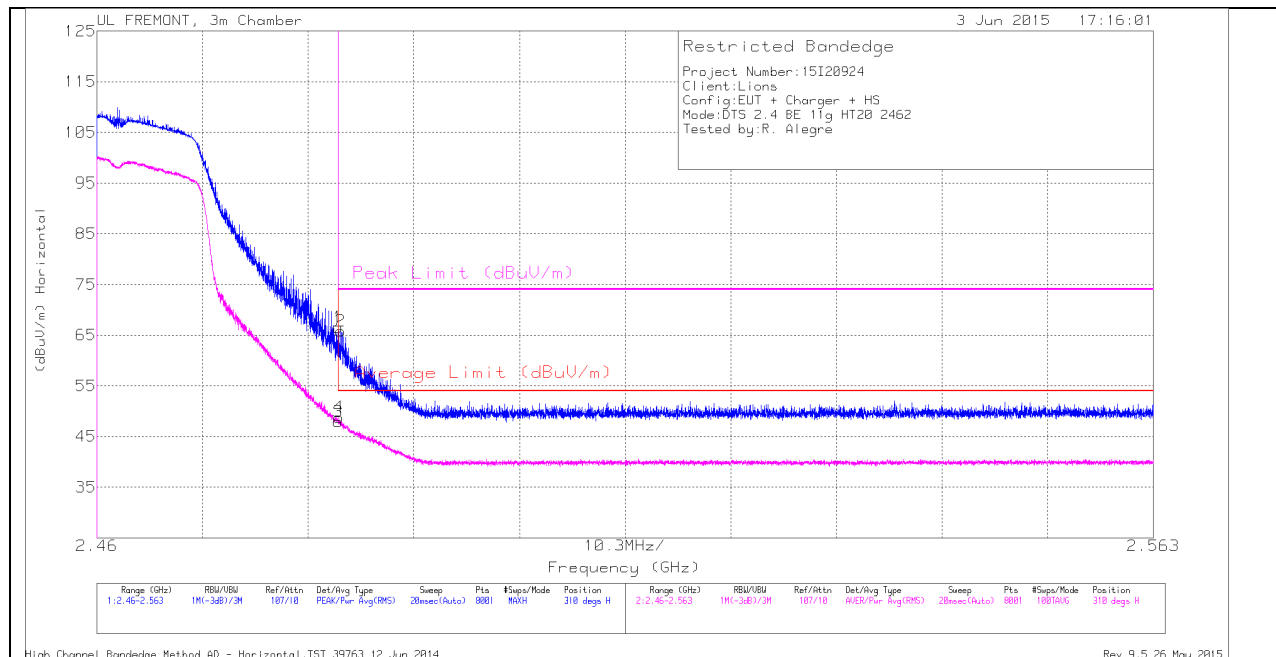
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.389	45.81	Pk	32	-22.4	0	55.41	-	-	74	-18.59	193	347	V
1	2.39	44.89	Pk	32	-22.4	0	54.49	-	-	74	-19.51	193	347	V
3	2.39	33.36	RMS	32	-22.4	.29	43.25	54	-10.75	-	-	193	347	V
4	2.39	33.62	RMS	32	-22.4	.29	43.51	54	-10.49	-	-	193	347	V

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



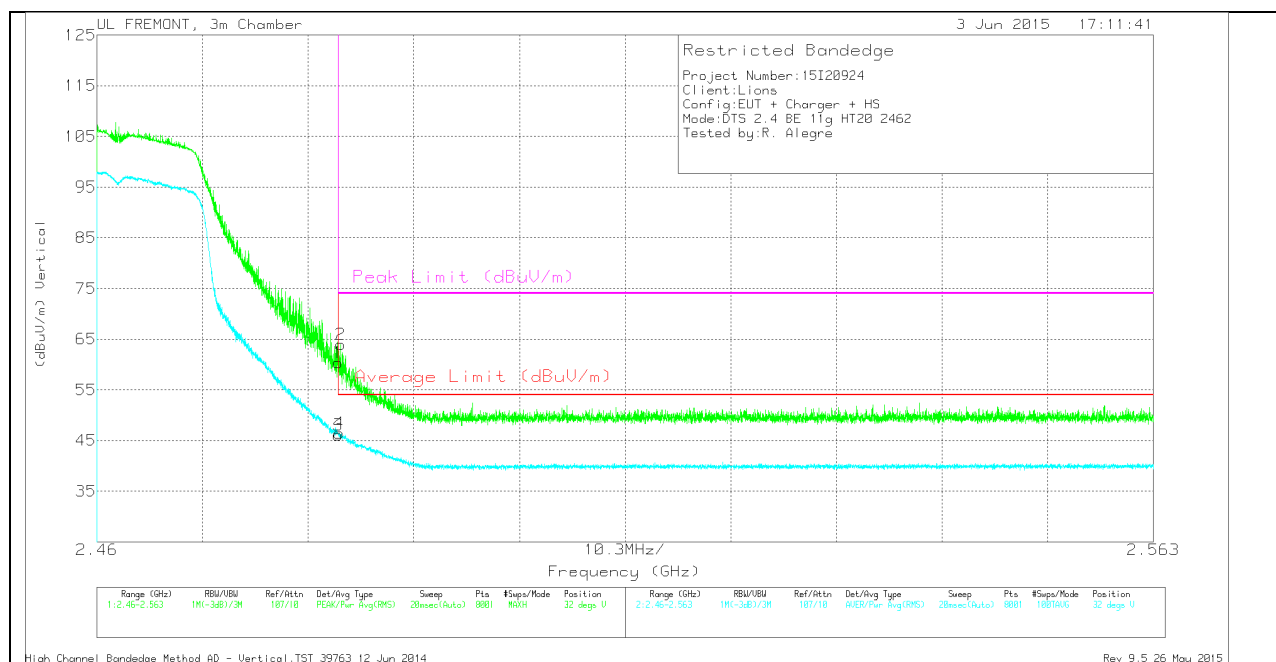
HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	56.41	Pk	32.3	-22.1	0	66.61	-	-	74	-7.39	310	291	H
2	2.484	55.59	Pk	32.3	-22.1	0	65.79	-	-	74	-8.21	310	291	H
3	2.484	37.78	RMS	32.3	-22.1	.29	48.27	54	-5.73	-	-	310	291	H
4	2.484	38.64	RMS	32.3	-22.1	.29	49.13	54	-4.87	-	-	310	291	H

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



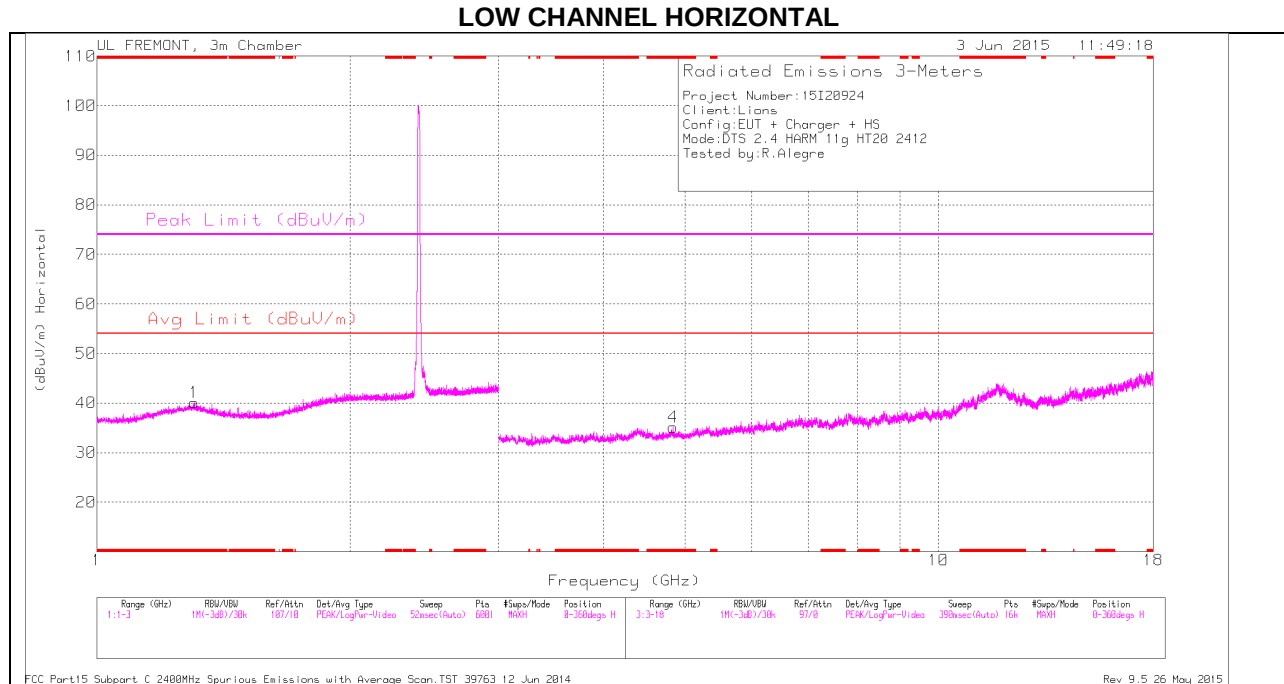
VERTICAL DATA

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	50.14	Pk	32.3	-22.1	0	60.34	-	-	74	-13.66	32	284	V
2	2.484	53.8	Pk	32.3	-22.1	0	64	-	-	74	-10	32	284	V
3	2.484	35.9	RMS	32.3	-22.1	.29	46.39	54	-7.61	-	-	32	284	V
4	2.484	36.24	RMS	32.3	-22.1	.29	46.73	54	-7.27	-	-	32	284	V

Pk - Peak detector

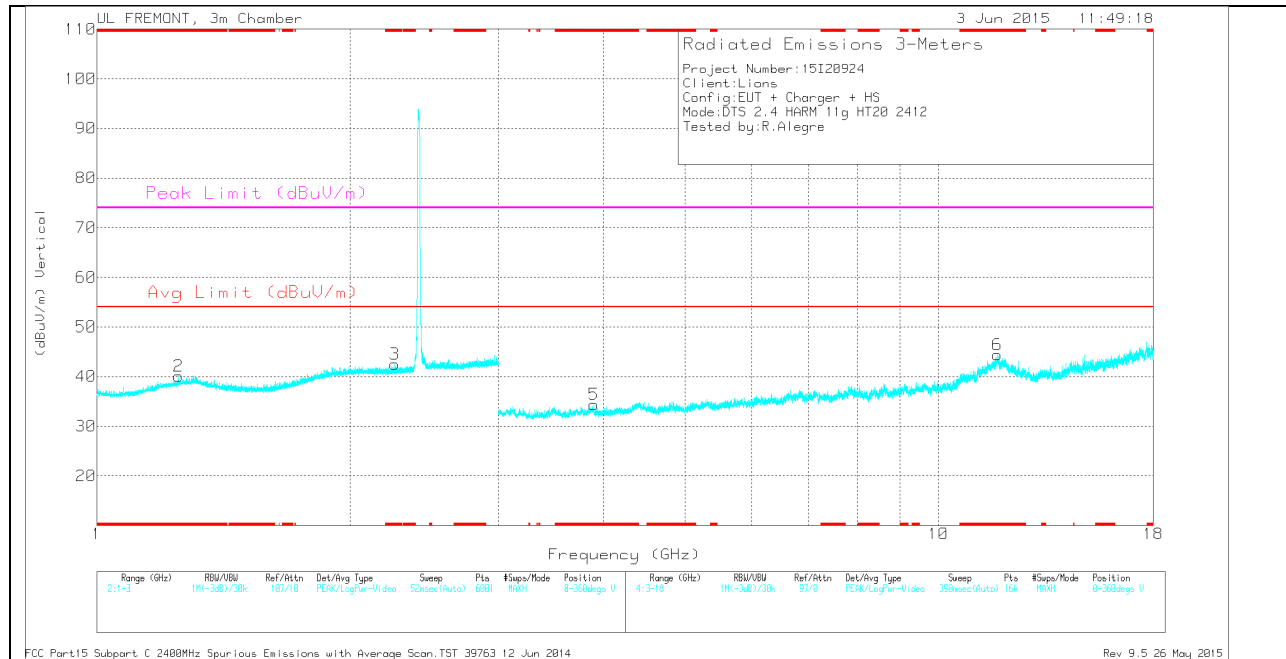
RMS - RMS detection

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.

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/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.306	33.38	Avg	29.8	-23.1	0	40.08	54	-13.92	-	-	0-360	100	H
2	* 1.249	33.86	Avg	29.4	-23.2	0	40.06	54	-13.94	-	-	0-360	100	V
3	* 2.257	33.34	Avg	31.5	-22.3	0	42.54	54	-11.46	-	-	0-360	100	V
4	* 4.837	30.6	Avg	34	-29.4	0	35.2	54	-18.8	-	-	0-360	100	H
5	* 3.895	31.42	Avg	33.2	-30.2	0	34.42	54	-19.58	-	-	0-360	200	V
6	* 11.742	27.27	Avg	38.9	-21.8	0	44.37	54	-9.63	-	-	0-360	100	V

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

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

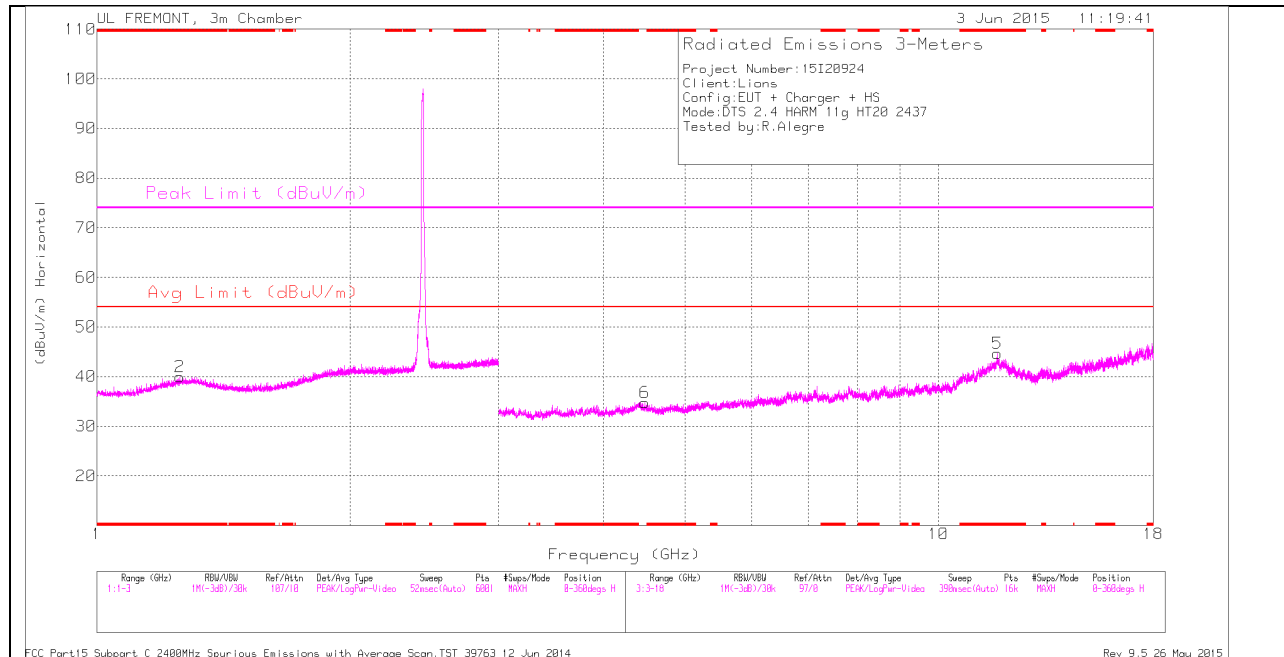
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.305	42.42	PK2	29.8	-23.1	0	49.12	-	-	74	-24.88	360	200	H
* 1.305	30.87	MAV1	29.8	-23.1	.29	37.86	54	-16.14	-	-	360	200	H
* 1.249	42.6	PK2	29.4	-23.2	0	48.8	-	-	74	-25.2	360	200	V
* 1.248	30.92	MAV1	29.4	-23.2	.29	37.41	54	-16.59	-	-	360	200	V
* 2.258	42.56	PK2	31.5	-22.3	0	51.76	-	-	74	-22.24	360	200	V
* 2.258	30.33	MAV1	31.5	-22.3	.29	39.82	54	-14.18	-	-	360	200	V
* 4.837	39.63	PK2	34	-29.4	0	44.23	-	-	74	-29.77	360	200	H
* 4.837	28.36	MAV1	34	-29.4	.29	33.25	54	-20.75	-	-	360	200	H
* 3.894	40.65	PK2	33.2	-30.3	0	43.55	-	-	74	-30.45	360	200	V
* 3.895	29.06	MAV1	33.2	-30.2	.29	32.35	54	-21.65	-	-	360	200	V
* 11.74	37.23	PK2	38.9	-21.8	0	54.33	-	-	74	-19.67	360	200	V
* 11.743	25.39	MAV1	38.9	-21.8	.29	42.78	54	-11.22	-	-	360	200	V

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

PK2 - KDB558074 Method: Maximum Peak

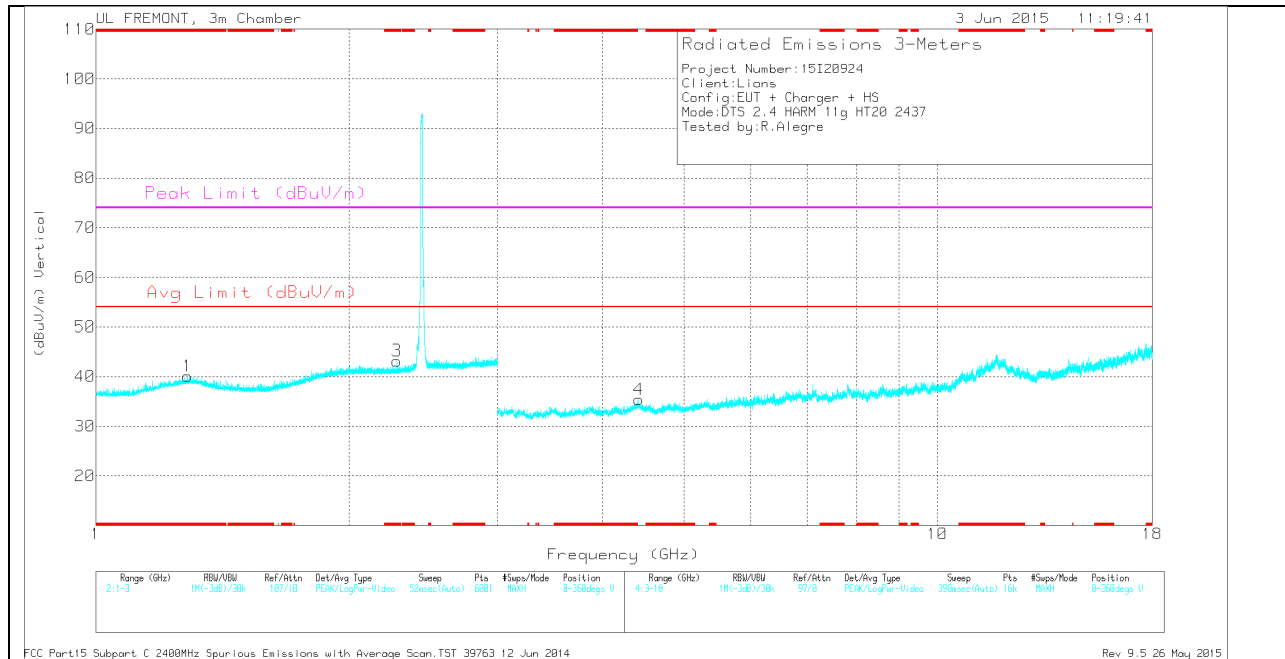
MAV1 - KDB558074 Option 1 Maximum RMS Average

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/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.254	33.82	Avg	29.4	-23.2	0	40.02	54	-13.98	-	-	0-360	100	H
1	* 1.286	33.43	Avg	29.8	-23.1	0	40.13	54	-13.87	-	-	0-360	200	V
3	* 2.278	34	Avg	31.6	-22.4	0	43.2	54	-10.8	-	-	0-360	100	V
5	* 11.74	27.57	Avg	38.9	-21.8	0	44.67	54	-9.33	-	-	0-360	100	H
4	4.415	31.34	Avg	33.7	-29.7	0	35.34	54	-18.66	-	-	0-360	100	V
6	4.476	31.65	Avg	33.7	-30.6	0	34.75	54	-19.25	-	-	0-360	100	H

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

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

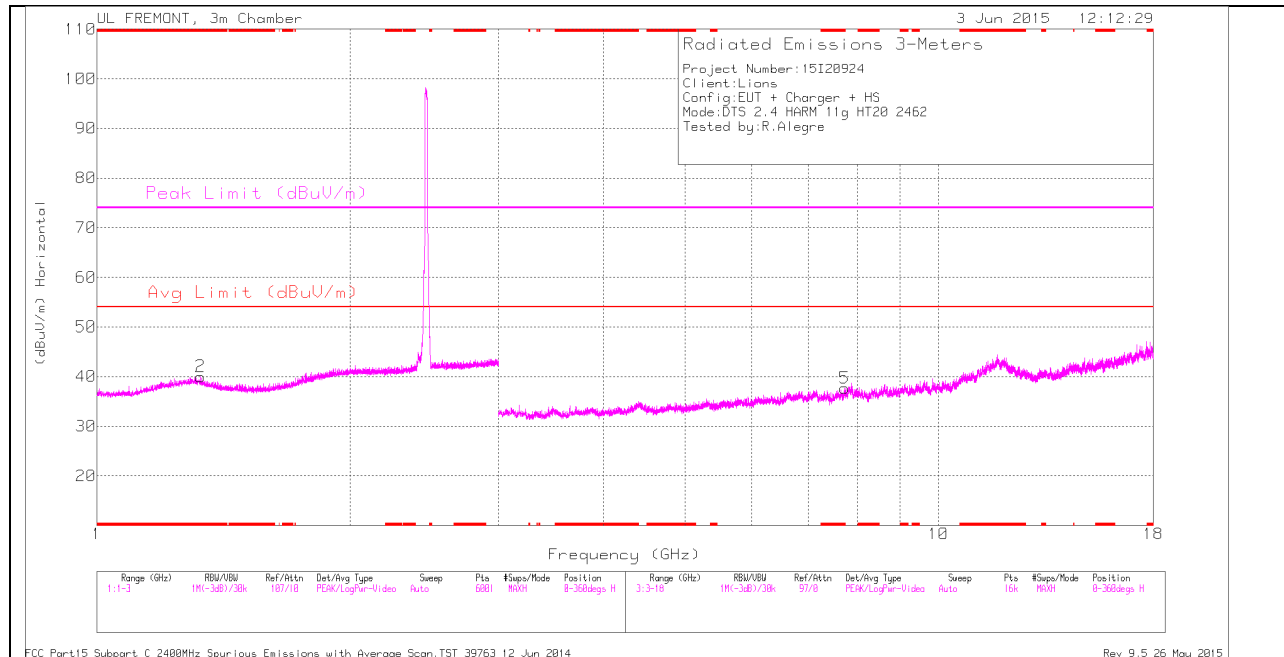
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.253	43.03	PK2	29.4	-23.2	0	49.23	-	-	74	-24.77	360	200	H
* 1.255	31	MAV1	29.5	-23.2	.29	37.59	54	-16.41	-	-	360	200	H
* 1.287	43.04	PK2	29.8	-23.1	0	49.74	-	-	74	-24.26	360	200	V
* 1.284	30.94	MAV1	29.7	-23.1	.29	37.83	54	-16.17	-	-	360	200	V
* 2.276	42.3	PK2	31.6	-22.4	0	51.5	-	-	74	-22.5	360	200	V
* 2.277	30.53	MAV1	31.6	-22.4	.29	40.02	54	-13.98	-	-	360	200	V
* 11.738	37.27	PK2	38.9	-21.8	0	54.37	-	-	74	-19.63	360	200	H
* 11.739	25.7	MAV1	38.9	-21.8	.29	43.09	54	-10.91	-	-	360	200	H
4.416	40.99	PK2	33.7	-29.7	0	44.99	-	-	74	-29.01	360	200	V
4.416	29.05	MAV1	33.7	-29.7	.29	33.34	54	-20.66	-	-	360	200	V
4.474	41.28	PK2	33.7	-30.6	0	44.38	-	-	74	-29.62	360	200	H
4.474	28.99	MAV1	33.7	-30.6	.29	32.38	54	-21.62	-	-	360	200	H

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

PK2 - KDB558074 Method: Maximum Peak

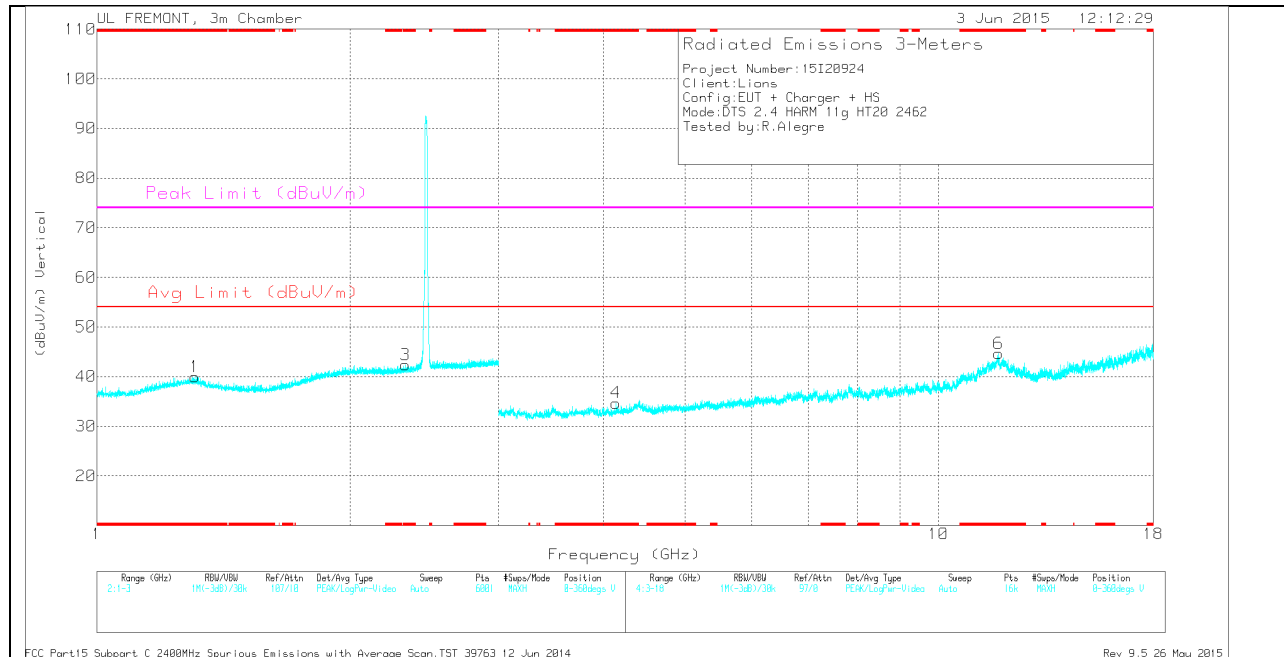
MAV1 - KDB558074 Option 1 Maximum RMS Average

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/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.328	33.73	Avg	29.5	-23.2	0	40.03	54	-13.97	-	-	0-360	100	H
1	* 1.307	33.24	Avg	29.8	-23.1	0	39.94	54	-14.06	-	-	0-360	100	V
3	* 2.325	33.03	Avg	31.7	-22.4	0	42.33	54	-11.67	-	-	0-360	100	V
5	* 7.742	30.14	Avg	35.8	-28.3	0	37.64	54	-16.36	-	-	0-360	200	H
4	* 4.14	31.5	Avg	33.3	-30.1	0	34.7	54	-19.3	-	-	0-360	200	V
6	* 11.78	28.17	Avg	39	-22.5	0	44.67	54	-9.33	-	-	0-360	100	V

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

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.329	42.95	PK2	29.5	-23.2	0	49.25	-	-	74	-24.75	360	200	H
* 1.329	30.83	MAV1	29.5	-23.2	.29	37.42	54	-16.58	-	-	360	200	H
* 1.308	42.97	PK2	29.8	-23.1	0	49.67	-	-	74	-24.33	360	200	V
* 1.308	36.99	MAV1	29.8	-23.1	.29	43.98	54	-10.02	-	-	360	200	V
* 2.325	42.26	PK2	31.7	-22.4	0	51.56	-	-	74	-22.44	360	100	V
* 2.326	30.57	MAV1	31.7	-22.4	.29	40.16	54	-13.84	-	-	360	100	V
* 7.74	40.39	PK2	35.8	-28.3	0	47.89	-	-	74	-26.11	360	200	H
* 7.74	28.18	MAV1	35.8	-28.3	.29	35.97	54	-18.03	-	-	360	200	H
* 4.139	40.56	PK2	33.3	-30.1	0	43.76	-	-	74	-30.24	360	200	V
* 4.139	28.87	MAV1	33.3	-30.1	.29	32.36	54	-21.64	-	-	360	200	V
* 11.78	36.9	PK2	39	-22.5	0	53.4	-	-	74	-20.6	360	100	V
* 11.78	25.6	MAV1	39	-22.5	.29	42.39	54	-11.61	-	-	360	100	V

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

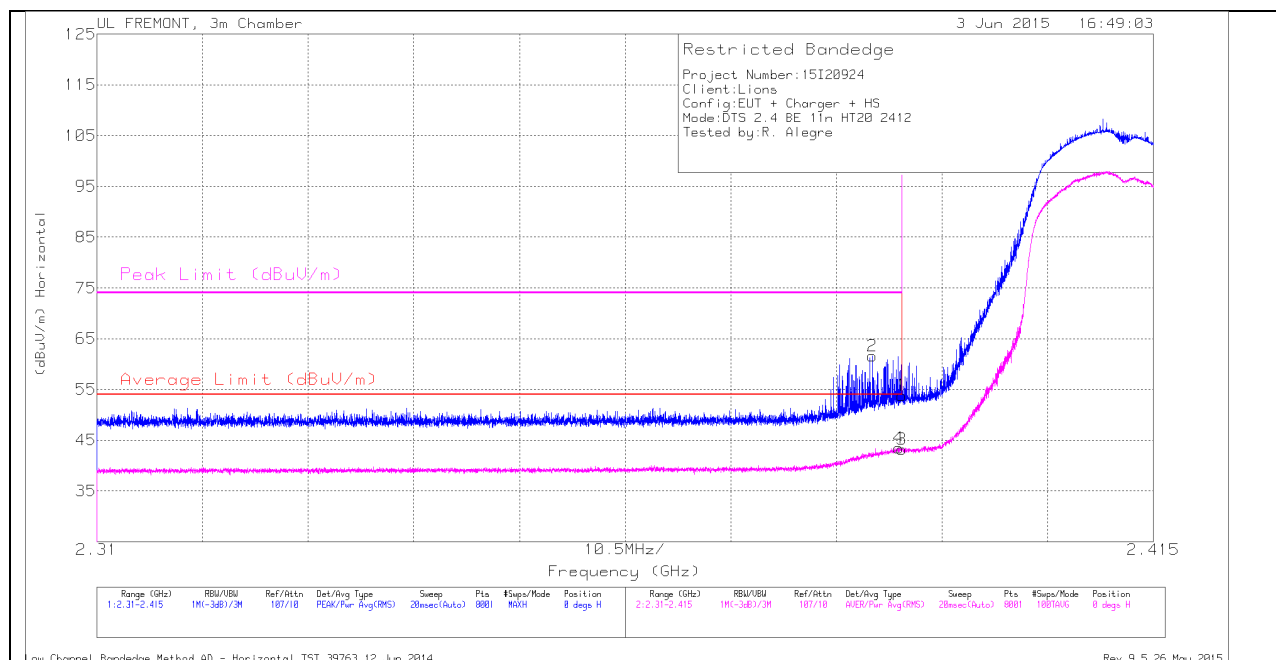
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



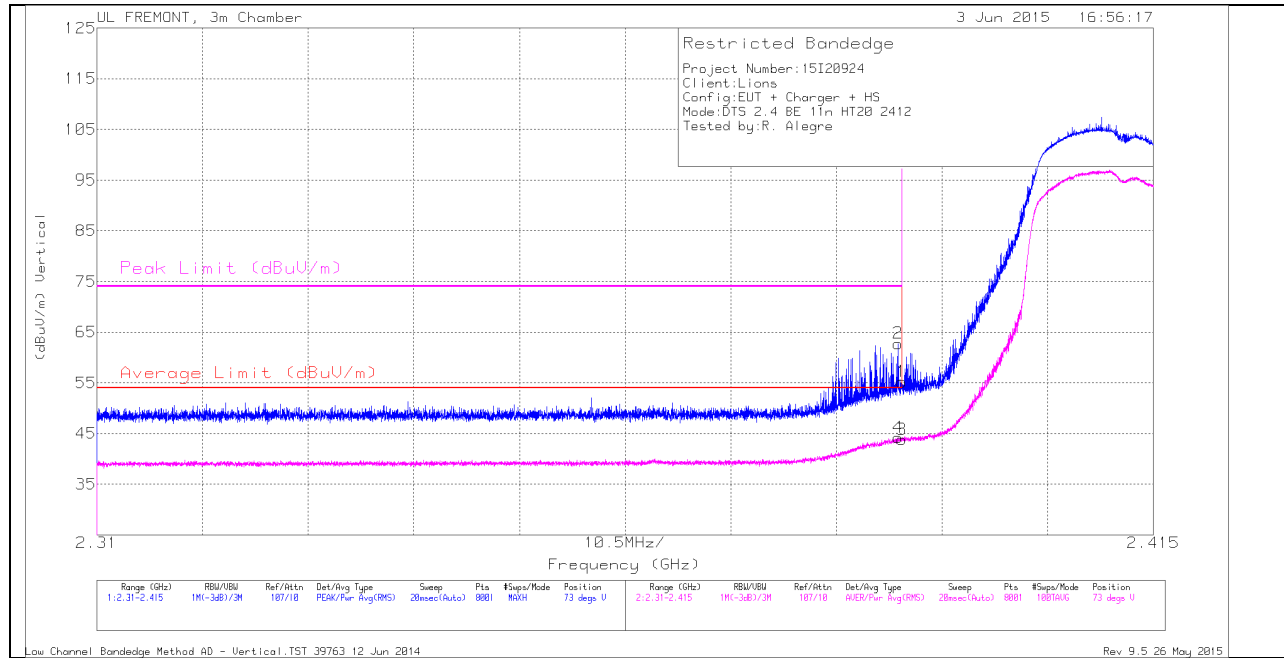
HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.387	51.97	Pk	32	-22.4	0	61.57	-	-	74	-12.43	0	358	H
1	2.39	44.23	Pk	32	-22.4	0	53.83	-	-	74	-20.17	0	358	H
3	2.39	33.61	RMS	32	-22.4	.31	43.5	54	-10.48	-	-	0	358	H
4	2.39	33.86	RMS	32	-22.4	.31	43.77	54	-10.23	-	-	0	358	H

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

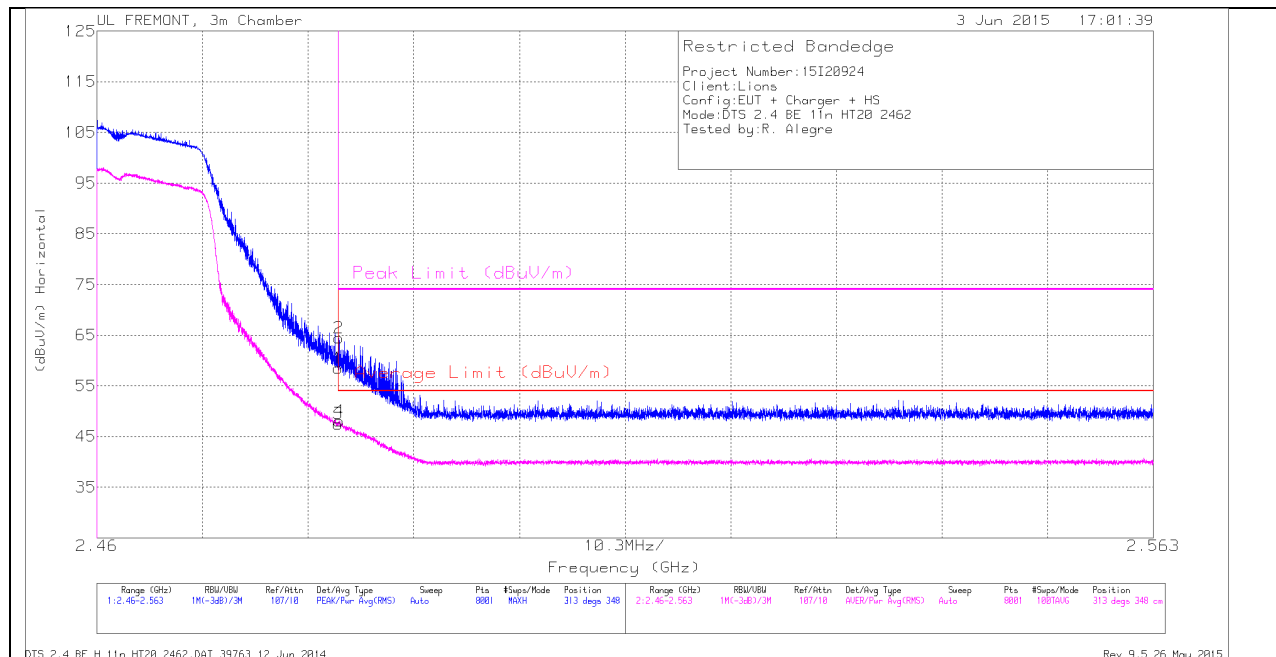
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	45.6	Pk	32	-22.4	0	55.2	-	-	74	-18.8	73	365	V
2	2.39	53.17	Pk	32	-22.4	0	62.77	-	-	74	-11.23	73	365	V
3	2.39	34.2	RMS	32	-22.4	.31	44.11	54	-9.89	-	-	73	365	V
4	2.39	34.56	RMS	32	-22.4	.31	44.47	54	-9.53	-	-	73	365	V

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



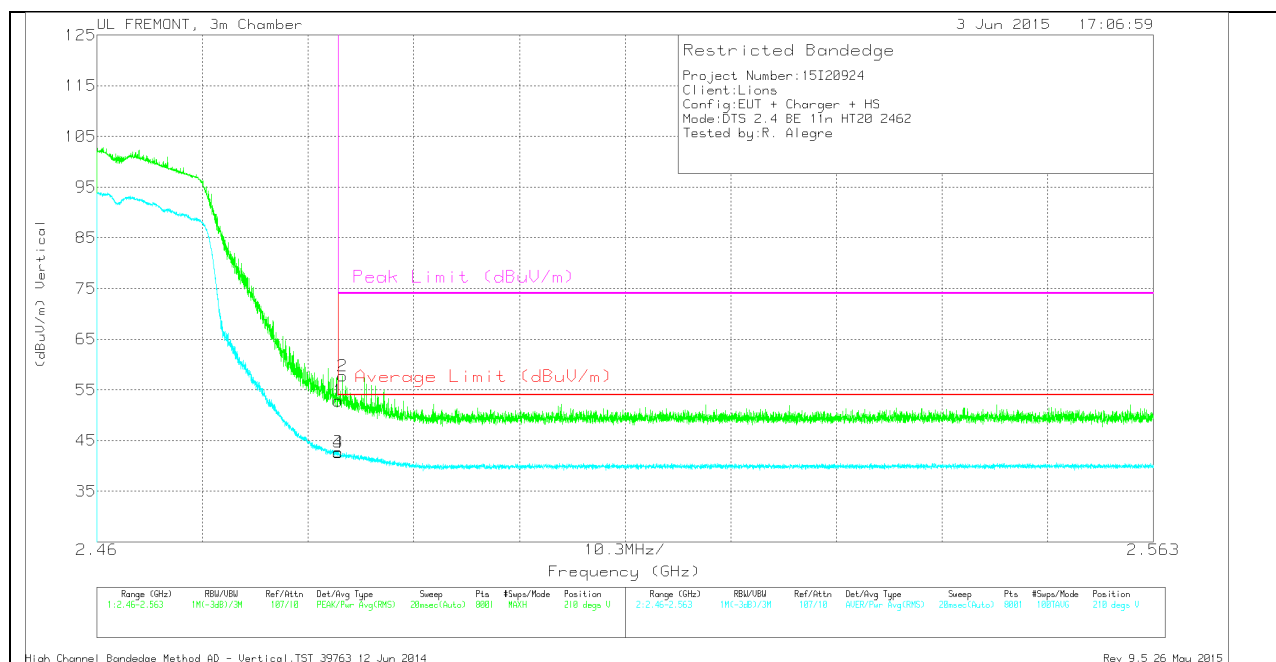
HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	48.33	Pk	32.3	-22.1	0	58.53	-	-	74	-15.47	313	348	H
2	2.484	54.22	Pk	32.3	-22.1	0	64.42	-	-	74	-9.58	313	348	H
3	2.484	37.3	RMS	32.3	-22.1	.31	47.81	54	-6.19	-	-	313	348	H
4	2.484	37.86	RMS	32.3	-22.1	.31	48.37	54	-5.63	-	-	313	348	H

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

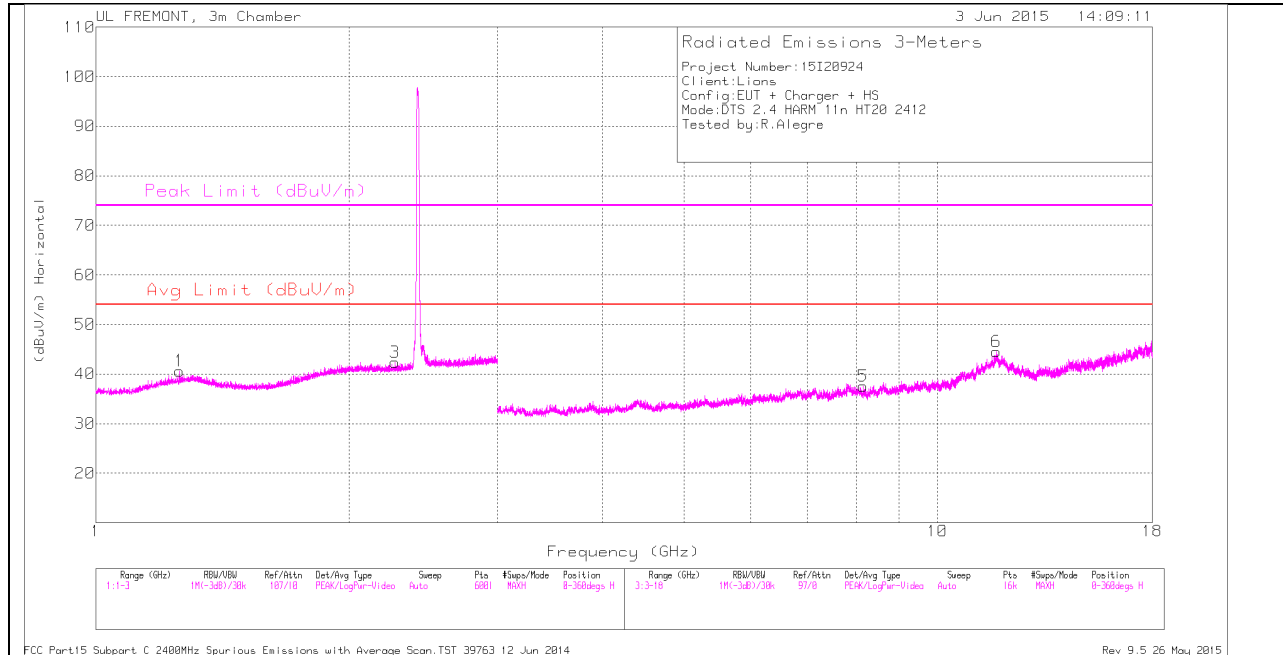
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	42.64	Pk	32.3	-22.1	0	52.84	-	-	74	-21.16	210	351	V
2	2.484	47.56	Pk	32.3	-22.1	0	57.76	-	-	74	-16.24	210	351	V
3	2.484	32.54	RMS	32.3	-22.1	.31	43.05	54	-10.95	-	-	210	351	V
4	2.484	32.45	RMS	32.3	-22.1	.31	42.96	54	-11.04	-	-	210	351	V

Pk - Peak detector

RMS - RMS detection

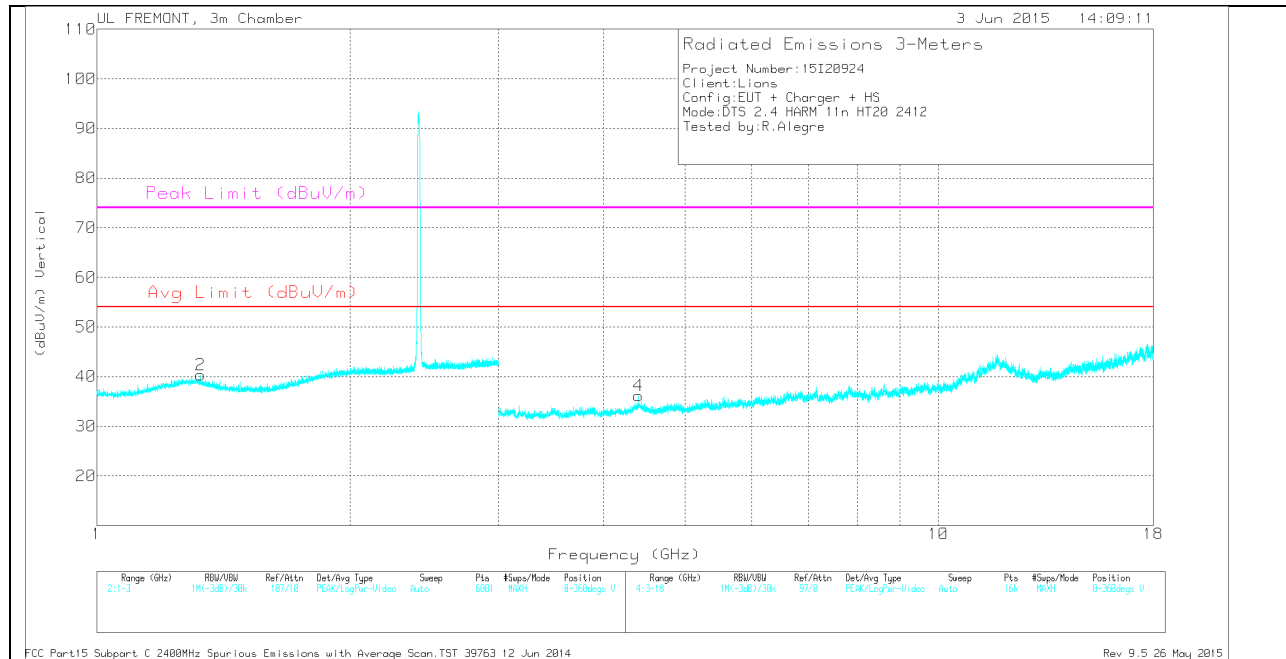
HARMONICS AND SPURIOUS EMISSIONS

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/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.256	34.36	Avg	29.5	-23.2	0	40.66	54	-13.34	-	-	0-360	100	H
2	1.328	34.02	Avg	29.5	-23.2	0	40.32	54	-13.68	-	-	0-360	200	V
3	2.267	33.11	Avg	31.6	-22.3	0	42.41	54	-11.59	-	-	0-360	200	H
4	4.403	32.12	Avg	33.6	-29.6	0	36.12	54	-17.88	-	-	0-360	200	V
5	8.165	28.67	Avg	35.7	-26.8	0	37.57	54	-16.43	-	-	0-360	100	H
6	11.748	27.58	Avg	38.9	-21.9	0	44.58	54	-9.42	-	-	0-360	100	H

Avg - Video bandwidth < Resolution bandwidth

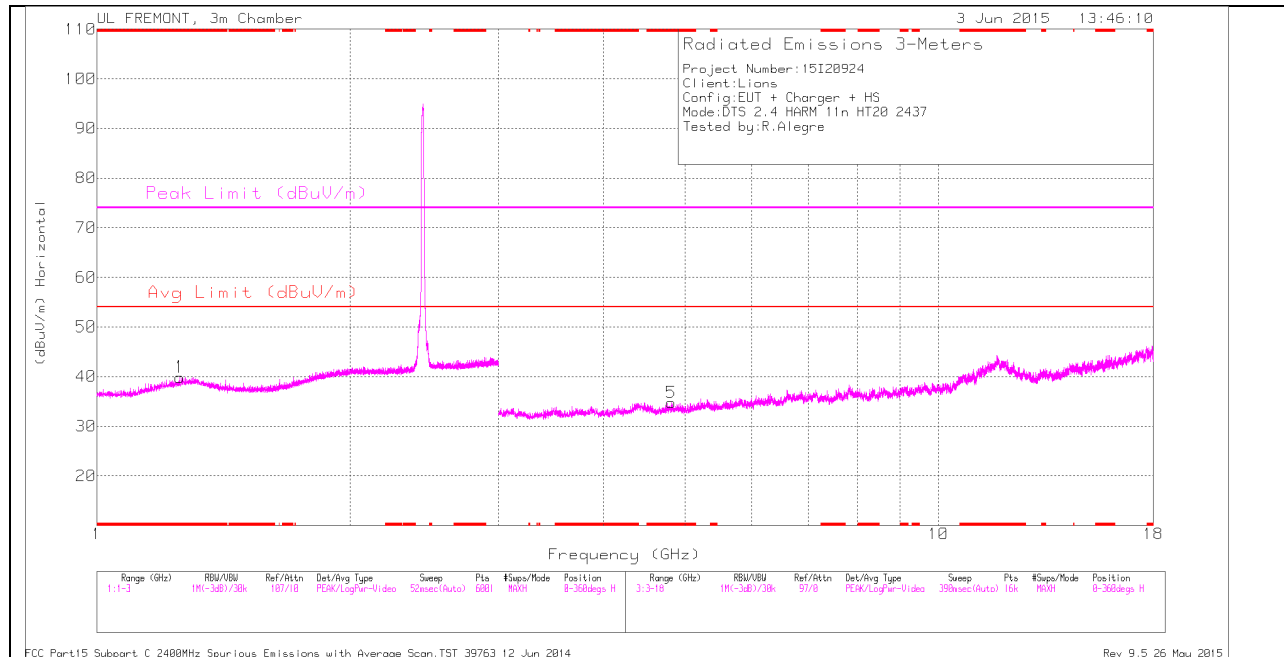
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.255	30.9	MAV1	29.5	-23.2	.31	37.51	54	-16.49	-	-	360	200	H
1.257	43.06	PK2	29.5	-23.2	0	49.36	-	-	74	-24.64	360	200	H
1.327	43.19	PK2	29.5	-23.2	0	49.49	-	-	74	-24.51	360	200	V
1.327	30.9	MAV1	29.6	-23.2	.31	37.61	54	-16.39	-	-	360	200	V
2.268	42	PK2	31.6	-22.3	0	51.3	-	-	74	-22.7	360	200	H
2.269	30.33	MAV1	31.6	-22.3	.31	39.94	54	-14.06	-	-	360	200	H
4.402	41.18	PK2	33.6	-29.5	0	45.28	-	-	74	-28.72	56	200	V
8.164	26.59	MAV1	35.7	-26.9	.31	35.7	54	-18.3	-	-	360	100	H
8.165	38.4	PK2	35.7	-26.8	0	47.3	-	-	74	-26.7	360	100	H
11.747	37.83	PK2	38.9	-21.8	0	54.93	-	-	74	-19.07	56	400	H
11.747	24.99	MAV1	38.9	-21.8	.31	42.24	54	-11.6	-	-	56	400	H

PK2 - KDB558074 Method: Maximum Peak

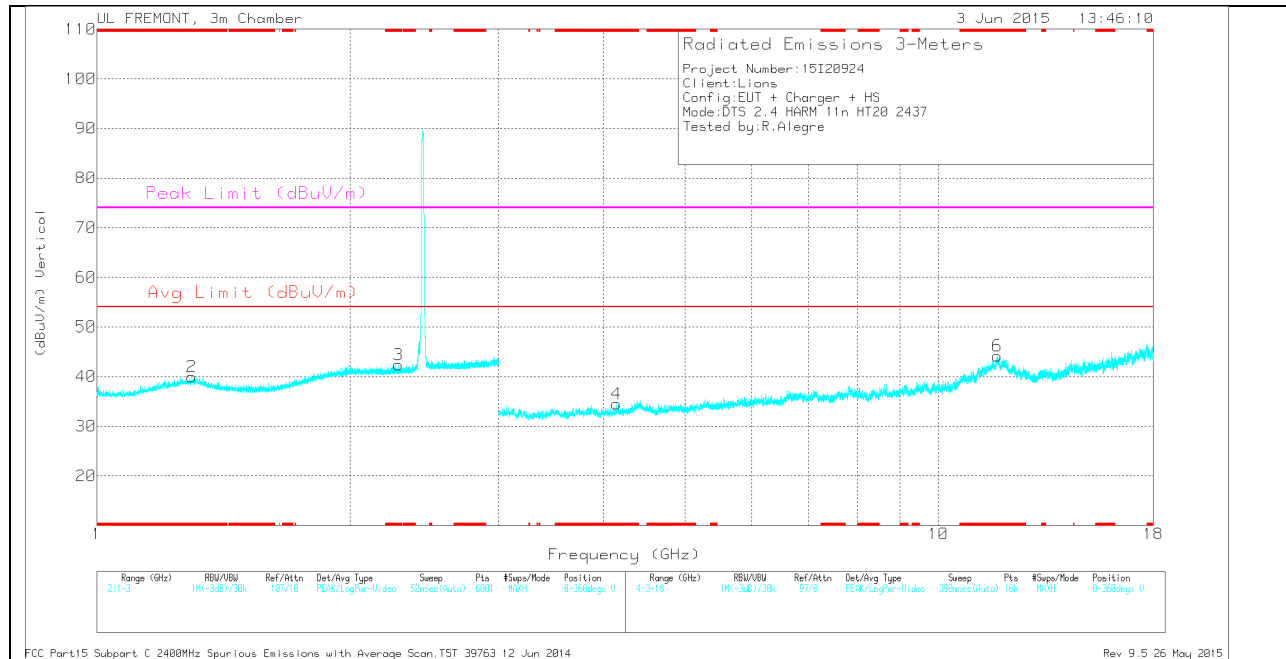
MAV1 - KDB558074 Option 1 Maximum RMS Average

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/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.254	33.7	Avg	29.4	-23.2	0	39.9	54	-14.1	-	-	0-360	200	H
2	* 1.296	33.4	Avg	29.8	-23.2	0	40	54	-14	-	-	0-360	100	V
3	* 2.28	33.2	Avg	31.6	-22.4	0	42.4	54	-11.6	-	-	0-360	100	V
5	* 4.816	30.04	Avg	34	-29.3	0	34.74	54	-19.26	-	-	0-360	100	H
4	* 4.144	31.15	Avg	33.3	-30	0	34.45	54	-19.55	-	-	0-360	200	V
6	* 11.742	27.04	Avg	38.9	-21.8	0	44.14	54	-9.86	-	-	0-360	100	V

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

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

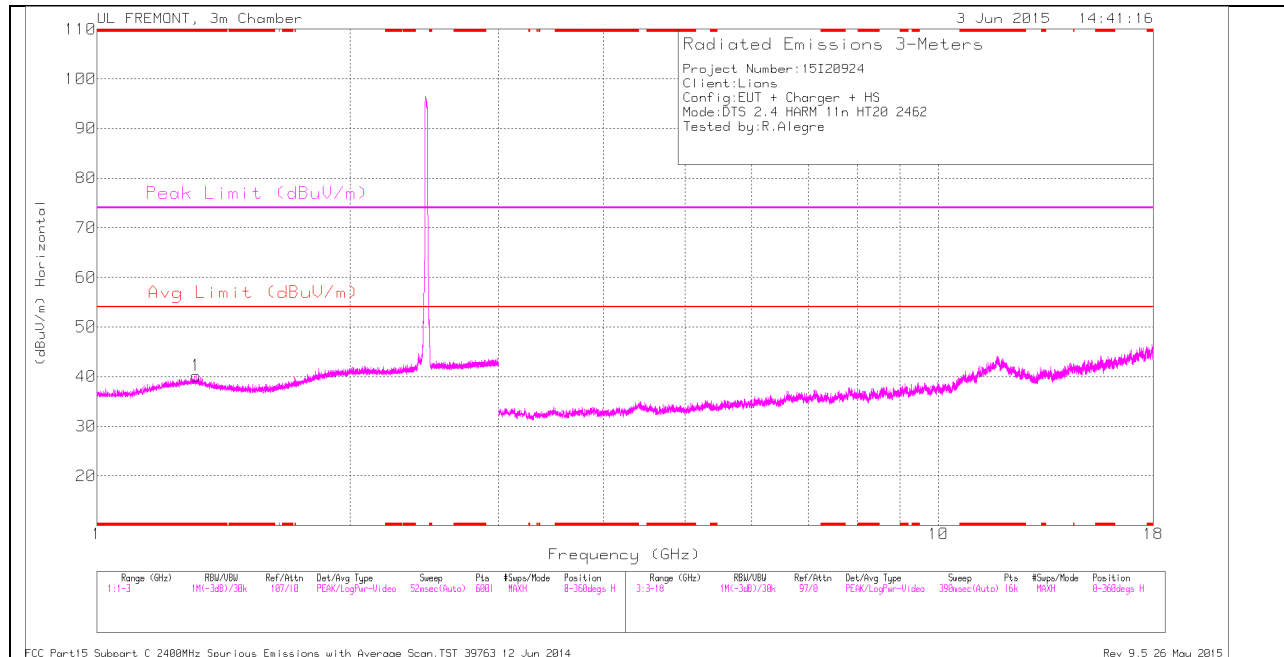
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.253	43.22	PK2	29.4	-23.2	0	49.42	-	-	74	-24.58	360	200	H
* 1.252	31	MAV1	29.4	-23.2	.31	37.51	54	-16.49	-	-	360	200	H
* 1.296	42.55	PK2	29.9	-23.2	0	49.25	-	-	74	-24.75	360	200	V
* 1.298	30.85	MAV1	29.9	-23.2	.31	37.86	54	-16.14	-	-	360	200	V
* 2.279	42.3	PK2	31.6	-22.4	0	51.5	-	-	74	-22.5	360	200	V
* 2.279	30.53	MAV1	31.6	-22.4	.31	40.04	54	-13.96	-	-	360	200	V
* 4.816	40.29	PK2	34	-29.3	0	44.99	-	-	74	-29.01	360	200	H
* 4.814	28.26	MAV1	34	-29.3	.31	33.27	54	-20.73	-	-	360	200	H
* 4.142	40.19	PK2	33.3	-30	0	43.49	-	-	74	-30.51	360	200	V
* 4.142	28.76	MAV1	33.3	-30	.31	32.37	54	-21.63	-	-	360	200	V
* 11.741	37.58	PK2	38.9	-21.8	0	54.68	-	-	74	-19.32	360	200	V
* 11.74	25.78	MAV1	38.9	-21.8	.31	43.19	54	-10.81	-	-	360	200	V

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

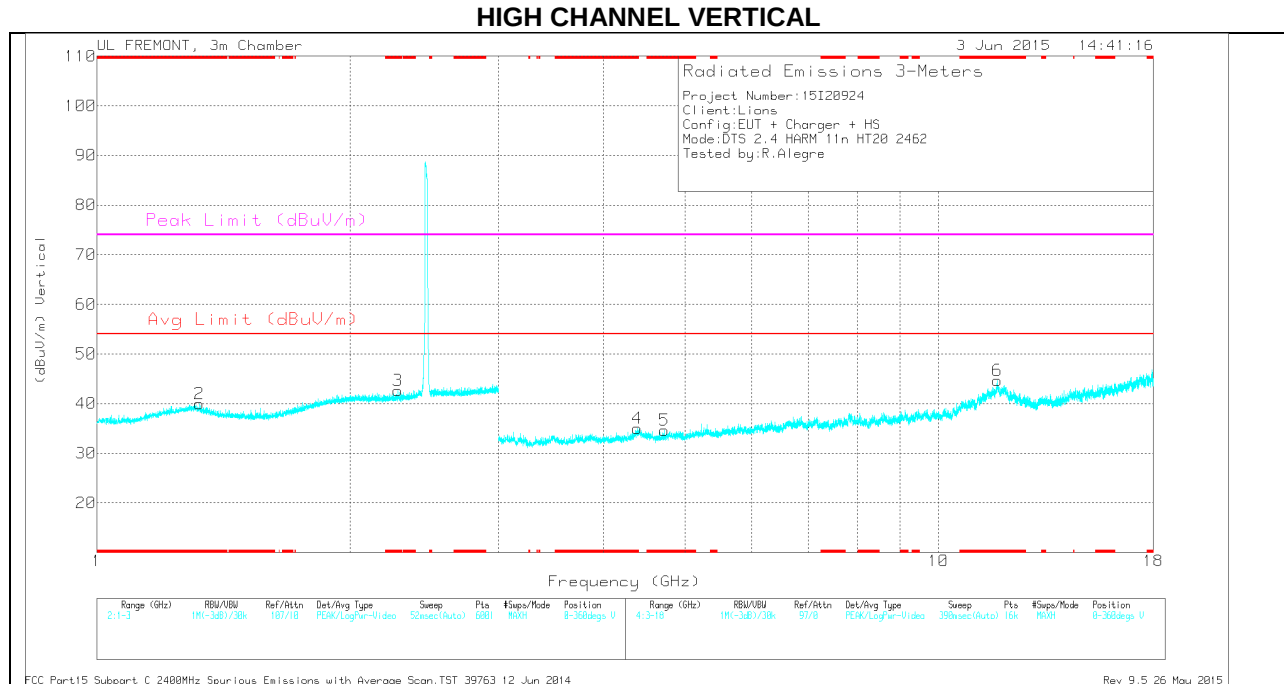
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

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 T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.312	33.66	Avg	29.7	-23.2	0	40.16	54	-13.84	-	-	0-360	200	H
2	* 1.323	33.44	Avg	29.6	-23.1	0	39.94	54	-14.06	-	-	0-360	200	V
3	* 2.278	33.45	Avg	31.6	-22.4	0	42.65	54	-11.35	-	-	0-360	100	V
4	* 4.386	30.71	Avg	33.6	-29.3	0	35.01	54	-18.99	-	-	0-360	100	V
5	* 4.719	30.69	Avg	34.1	-30.2	0	34.59	54	-19.41	-	-	0-360	100	V
6	* 11.744	27.55	Avg	38.9	-21.8	0	44.65	54	-9.35	-	-	0-360	100	V

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

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.311	42.92	PK2	29.7	-23.2	0	49.42	-	-	74	-24.58	0	200	H
* 1.31	31.03	MAV1	29.8	-23.1	.31	38.04	54	-15.96	-	-	0	200	H
* 1.323	42.81	PK2	29.6	-23.1	0	49.31	-	-	74	-24.69	0	200	V
* 1.321	30.78	MAV1	29.6	-23.1	.31	37.59	54	-16.41	-	-	0	200	V
* 2.278	42.03	PK2	31.6	-22.4	0	51.23	-	-	74	-22.77	0	100	V
* 2.279	30.52	MAV1	31.6	-22.4	.31	40.03	54	-13.97	-	-	0	100	V
* 4.386	40.52	PK2	33.6	-29.2	0	44.92	-	-	74	-29.08	0	100	V
* 4.388	28.61	MAV1	33.6	-29.3	.31	33.22	54	-20.78	-	-	0	100	V
* 4.72	40.24	PK2	34.1	-30.2	0	44.14	-	-	74	-29.86	0	100	V
* 4.719	28.76	MAV1	34.1	-30.2	.31	32.97	54	-21.03	-	-	0	100	V
* 11.743	37.18	PK2	38.9	-21.8	0	54.28	-	-	74	-19.72	0	100	V
* 11.743	25.7	MAV1	38.9	-21.8	.31	43.11	54	-10.89	-	-	0	100	V

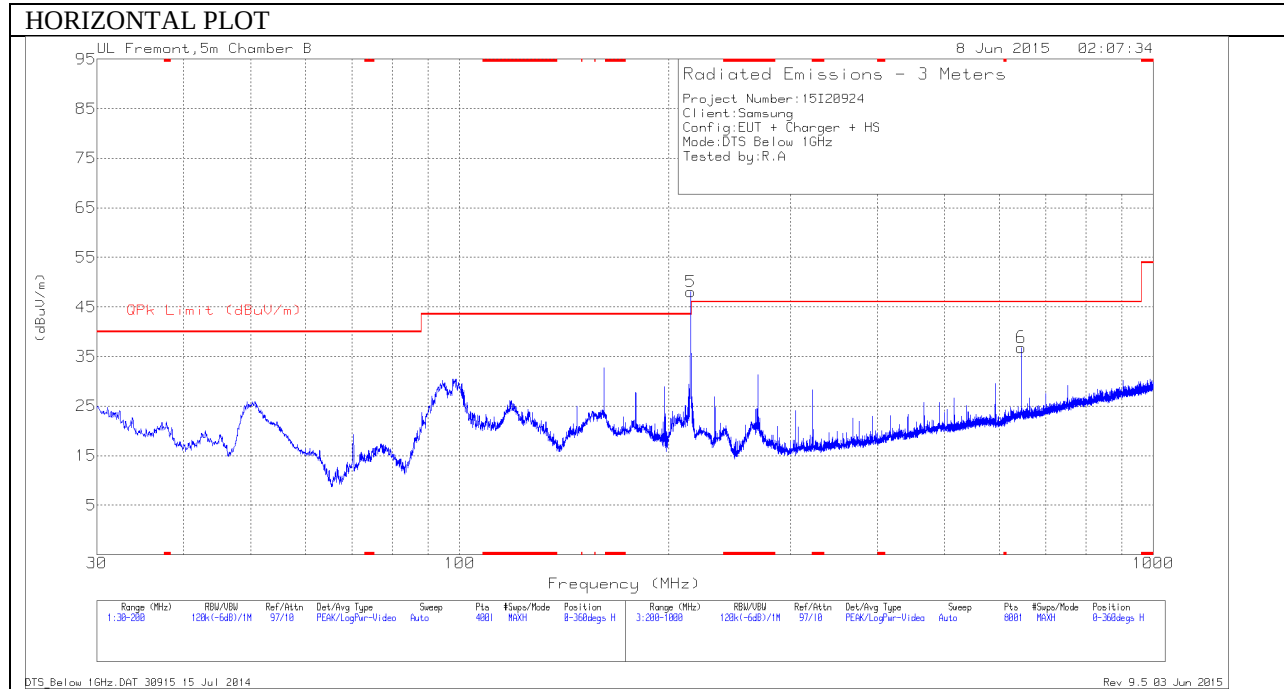
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

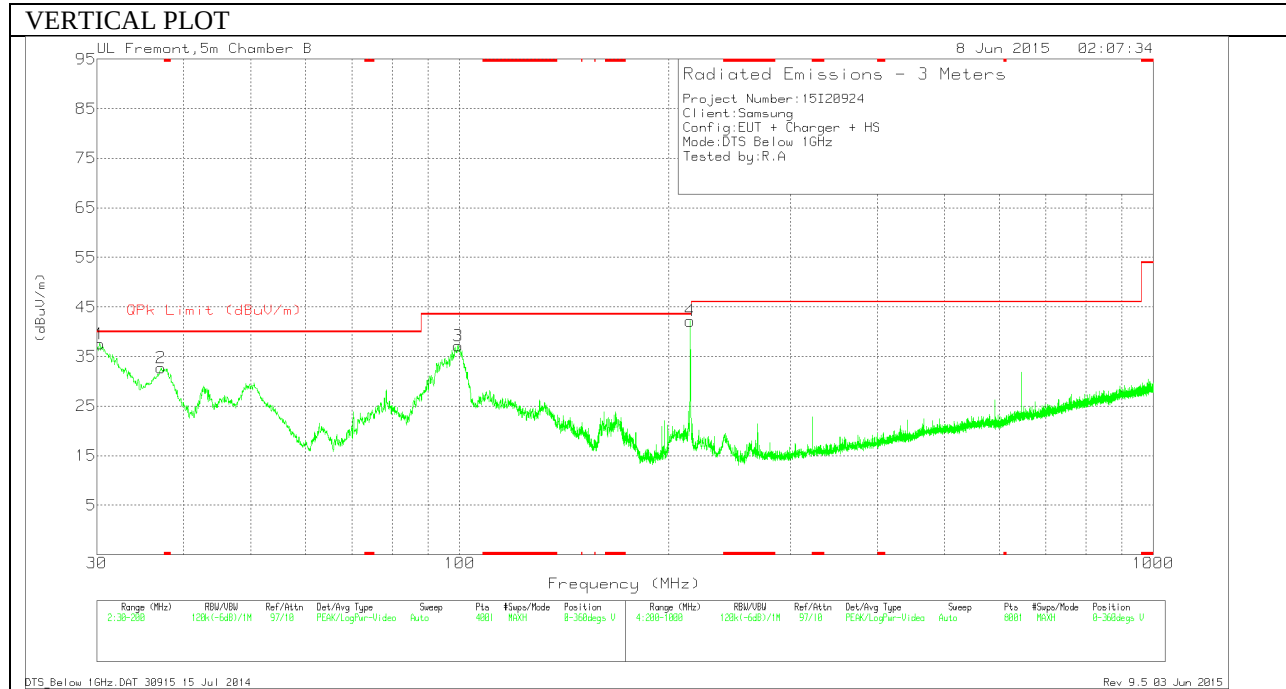
MAV1 - KDB558074 Option 1 Maximum RMS Average

12.3. 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
1	30.2975	45.92	Pk	20.5	-28.9	37.52	40	-2.48	0-360	101	V
2	37.14	45.53	Pk	16	-28.8	32.73	40	-7.27	0-360	101	V
3	99.53	55.19	Pk	10.1	-28.1	37.19	43.52	-6.33	0-360	101	V
4	215	58.37	Pk	10.6	-26.8	42.17	43.52	-1.35	0-360	101	V
5	215.4	64.24	Pk	10.6	-26.8	48.04	43.52	4.52	0-360	101	H
6	645.4	41.93	Pk	19.9	-25	36.83	46.02	-9.19	0-360	299	H

Pk - Peak detector

Radiated Emissions

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
215.5	48.96	Qp	10.6	-26.8	32.76	43.52	-10.76	270	146	H

Qp - Quasi-Peak detector

DTS_Below 1GHz.DAT 30915 15 Jul 2014

13. 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 C63.10.

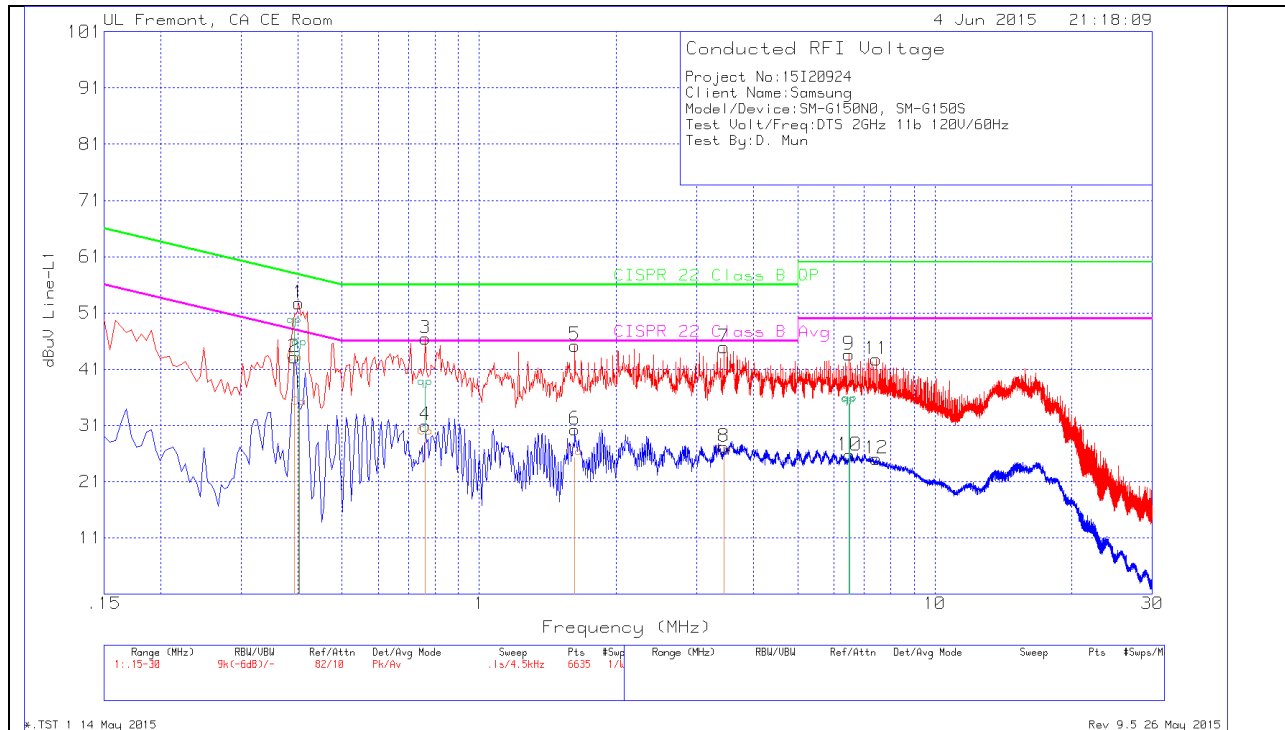
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

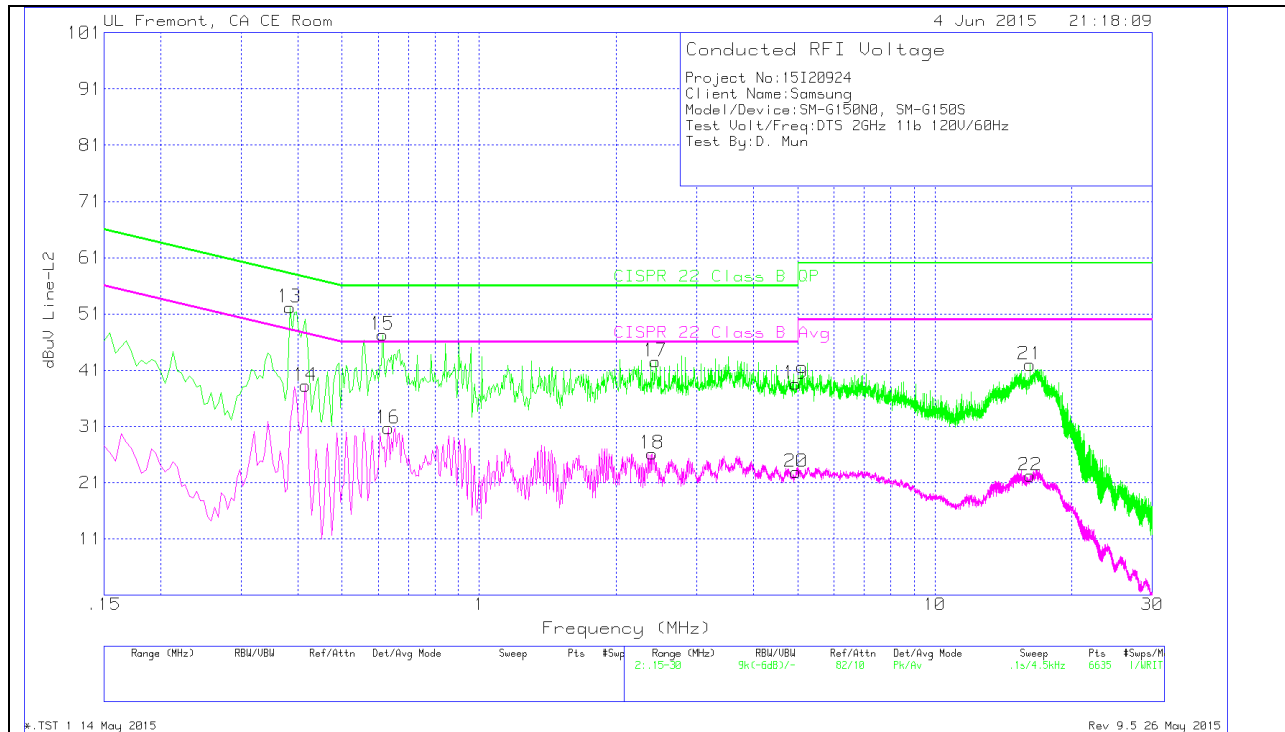
Range 1: Line-L1 .15 - 30MHz

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	.402	52.36	Pk	.4	0	52.76	57.81	-5.05		
2	.393	42.76	Av	.4	0	43.16	-	-	48	-4.84
3	.762	46.18	Pk	.3	0	46.48	56	-9.52		
4	.762	30.72	Av	.3	0	31.02	-	-	46	-14.98
5	1.6215	44.93	Pk	.2	.1	45.23	56	-10.77		
6	1.6215	29.96	Av	.2	.1	30.26	-	-	46	-15.74
7	3.444	44.64	Pk	.2	.1	44.94	56	-11.06		
8	3.444	26.9	Av	.2	.1	27.2	-	-	46	-18.8
9	6.4725	43.3	Pk	.2	.1	43.6	60	-16.4		
10	6.504	25.38	Av	.2	.1	25.68	-	-	50	-24.32
11	7.4445	42.48	Pk	.2	.1	42.78	60	-17.22		
12	7.4445	24.81	Av	.2	.1	25.11	-	-	50	-24.89

Pk - Peak detector

Av - Average detection

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)
13	.384	51.65	Pk	.5	0	52.15	58.19	-6.04		
14	.4155	37.83	Av	.4	0	38.23	-	-	47.54	-9.31
15	.6135	47.01	Pk	.3	0	47.31	56	-8.69		
16	.6315	30.39	Av	.3	0	30.69	-	-	46	-15.31
17	2.436	42.25	Pk	.2	.1	42.55	56	-13.45		
18	2.3955	25.87	Av	.2	.1	26.17	-	-	46	-19.83
19	4.9515	38.28	Pk	.2	.1	38.58	56	-17.42		
20	4.9605	22.58	Av	.2	.1	22.88	-	-	46	-23.12
21	16.1745	41.52	Pk	.3	.2	42.02	60	-17.98		
22	16.197	21.75	Av	.3	.2	22.25	-	-	50	-27.75

Pk - Peak detector

Av - Average detection