



FCC CFR47 PART 15 SUBPART C

C2PC CERTIFICATION TEST REPORT

FOR

GSM/CDMA/WCDMA/LTE PHONE + BLUETOOTH, with DTS/UNII a/b/g/n/ac & NFC

MODEL NUMBER: LG-LS991, LS991, LGLS991, LGAS991, AS991, LG-AS991

FCC ID: ZNFLS991

REPORT NUMBER: 15I20514-E4 REVISION B

ISSUE DATE: MAY 6, 2015

Prepared for

**LG ELECTRONICS MOBILECOMM U.S.A., INC
1000 SYLVAN AVENUE
ENGLEWOOD CLIFFS,
NEW JERSEY, 07632, U.S.A**

Prepared by

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



NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	05/4/15	Initial Issue	D. Corona
A	05/05/15	Added Additional Model Names to Header, Page 1, and Page 5	J. Ko
B	05/06/15	Update antenna information page	D. Corona

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	5
4.1. MEASURING INSTRUMENT CALIBRATION	5
4.2. SAMPLE CALCULATION	5
4.3. MEASUREMENT UNCERTAINTY	6
5. EQUIPMENT UNDER TEST	7
5.1. DESCRIPTION OF EUT	7
5.2. MAXIMUM OUTPUT POWER.....	7
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	7
5.4. WORST-CASE CONFIGURATION AND MODE	7
5.5. DESCRIPTION OF TEST SETUP.....	8
6. TEST AND MEASUREMENT EQUIPMENT	10
7. MEASUREMENT METHODS	11
8. SUMMARY TABLE	12
9. RADIATED TEST RESULTS.....	13
9.1. LIMITS AND PROCEDURE	13
9.2. TRANSMITTER ABOVE 1 GHz	14
9.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND	14
9.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND	27
9.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND.....	40
9.2.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.8 GHz BAND	53
9.3. TRANSMITTER BELOW 1 GHz.....	66
10. SETUP PHOTOS	68

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC
EUT DESCRIPTION: GSM/CDMA/WCDMA/LTE PHONE + BLUETOOTH, with DTS/UNII a/b/g/n/ac & NFC
MODEL: LG-LS991, LS991, LGLS991, LGAS991, AS991, LG-AS991
SERIAL NUMBER: 1TLT6 (Radiated) and 1W43W (Radiated)
DATE TESTED: APRIL 6-20, 2015

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

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

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

Approved & Released For

UL Verification Services Inc. By:



DAN CORONIA
CONSUMER TECHNOLOGY DIVISION
WISE PROJECT LEAD
UL VERIFICATION SERVICES INC

Tested By:



KIYA KEDIDA
CONSUMER TECHNOLOGY DIVISION
WISE LABORATORY ENGINEER
UL VERIFICATION SERVICES INC

2. TEST METHODOLOGY

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

3. FACILITIES AND ACCREDITATION

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

47173 Benicia Street	47266 Benicia Street
☐ Chamber A(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:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 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/CDMA/WCDMA/LTE PHONE + BLUETOOTH, with DTS/UNII a/b/g/n/ac & NFC

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:
See original report for details.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PIFA antenna, with a maximum gain -0.33dBi.

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

802.11ac HT20mode: MCS0

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-04WD2	EAY62991904	N/A
Smart Case Cover	LG	LG-P1	DK0227	N/A
Wireless Charger	LG	WCD-110	LF1212625283010049	N/A
Earphone	LG	N/A	N/A	N/A

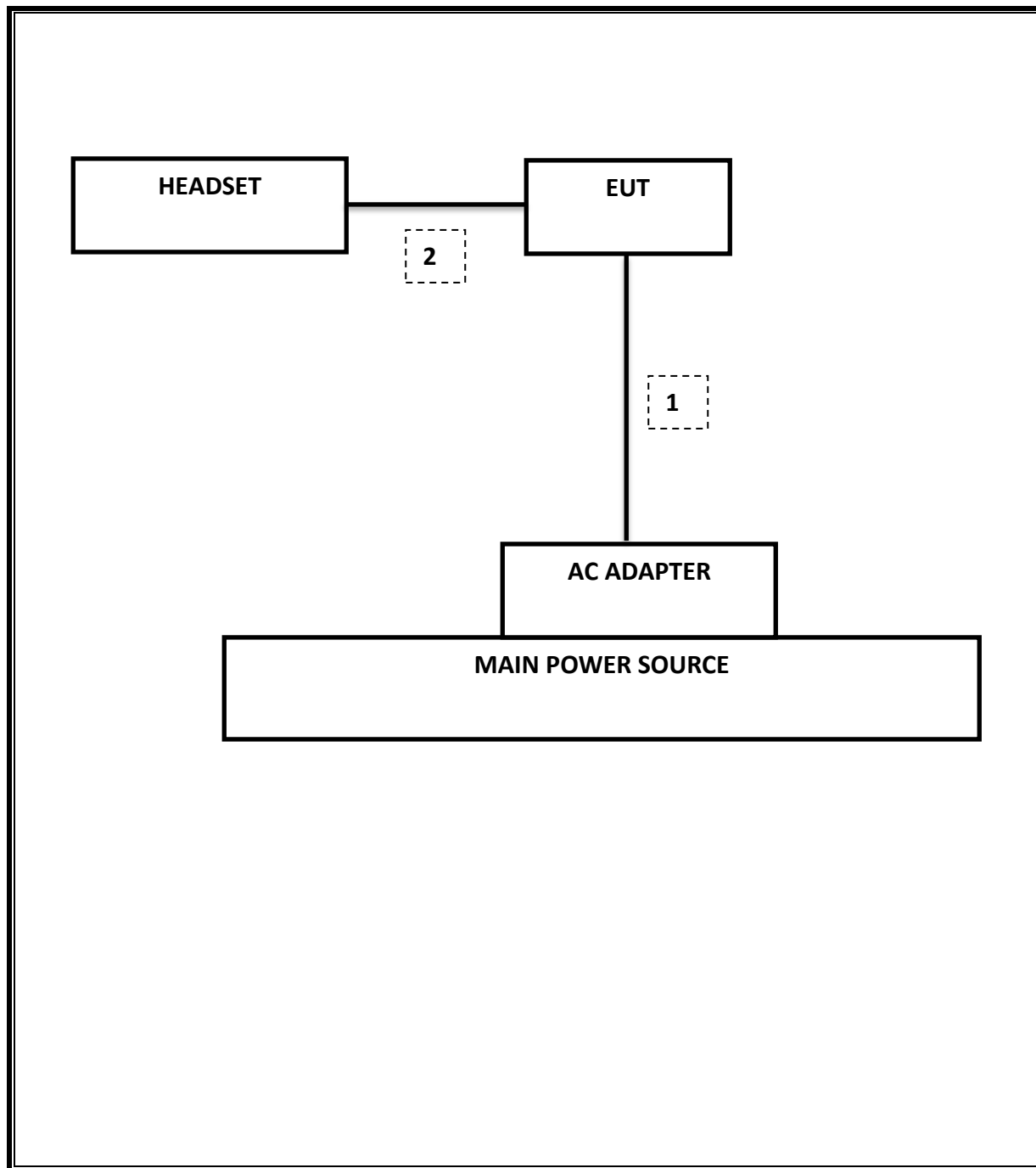
I/O CABLES

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	106	08/06/15
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	100773	08/15/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
Antenna, Horn, 18GHz	EMCO	3115	C00783	10/25/15
Antenna, Horn, 18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/15
Antenna, Horn, 26-40 GHz	ARA	MWH-2640	C00891	06/28/15
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	12/08/15
RF Preamplifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/15
RF Preamplifier, 26GHz - 40GHz	Miteq	NSP4000-SP2	86	04/07/16
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 - 18GHz	Miteq	AFS42-00101800-25-S-42	1818466	05/09/15
Attenuator / Switch driver	HP	11713A	F00204	CNR
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	F00219	05/23/15
High Pass Filter 5GHz	Micro-Tronics	HPS17542	F00222	05/22/15
High Pass Filter 6GHz	Micro-Tronics	HPM17543	F00224	05/22/15

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 AVGPSD-3 is used for power spectral density.

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

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

8. SUMMARY TABLE

C2PC reason: Please see LG FCC Class II Change Description letter for details.

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	RSS-210 A8.2(a)	Occupied Band width (6dB)	>500KHz	Conducted	Pass	See original
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	See original
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	See original
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	See original
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	See original
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	48.25 dBuV/m

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit ($\mu\text{V/m}$) at 3 m	Field Strength Limit (dB $\mu\text{V/m}$) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

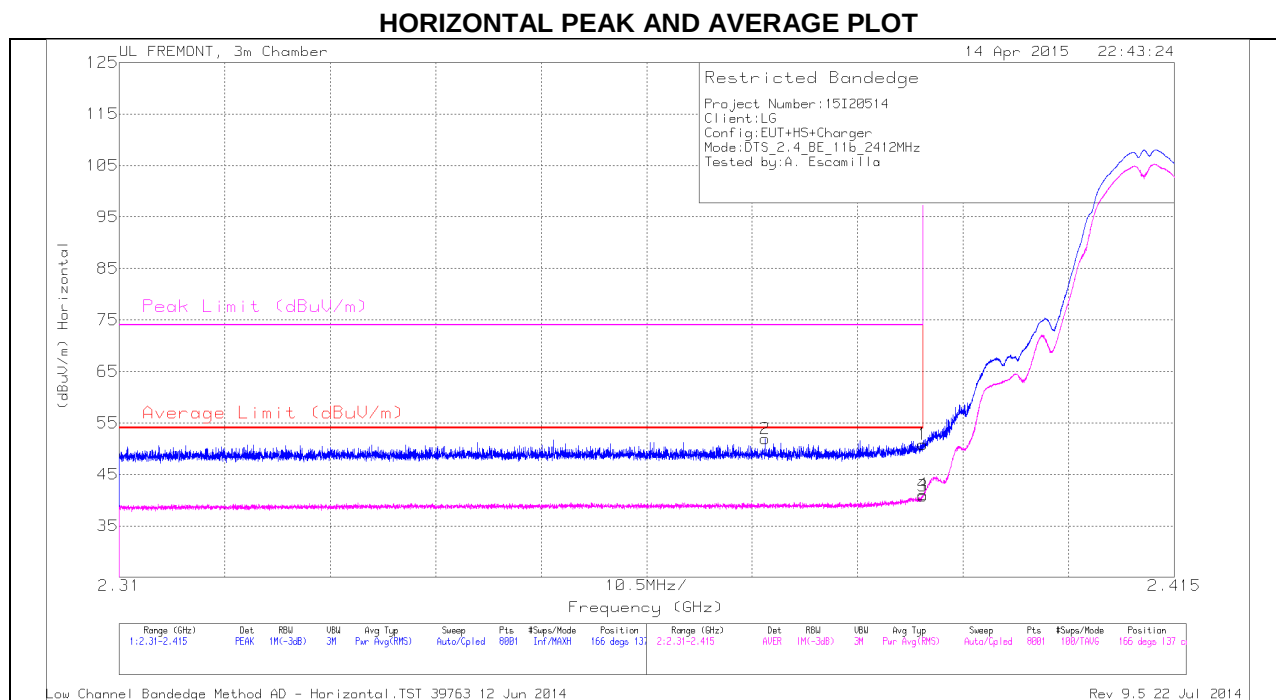
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. Duty cycle factor = $10\log(1/x)$ For this sample B mode = 0dB (duty cycle >98%); G mode = 0.3dB; N mode = 0.32dB.

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

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

9.2. TRANSMITTER ABOVE 1 GHz

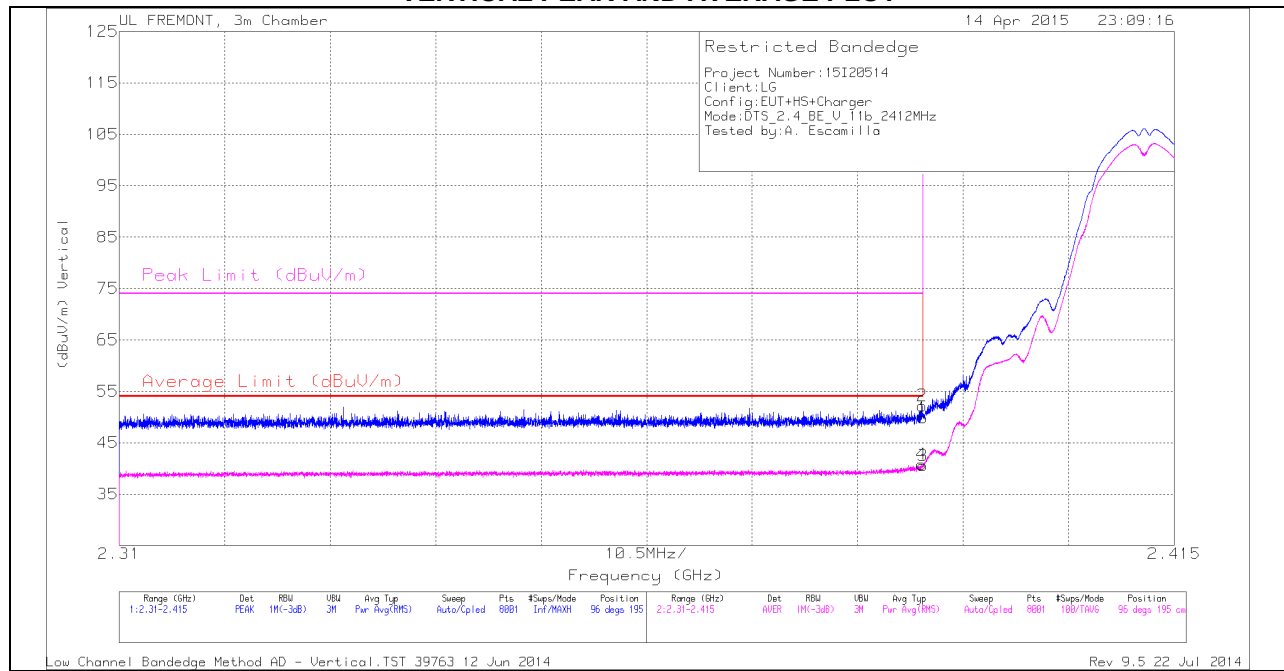
9.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)



HORIZONTAL DATA

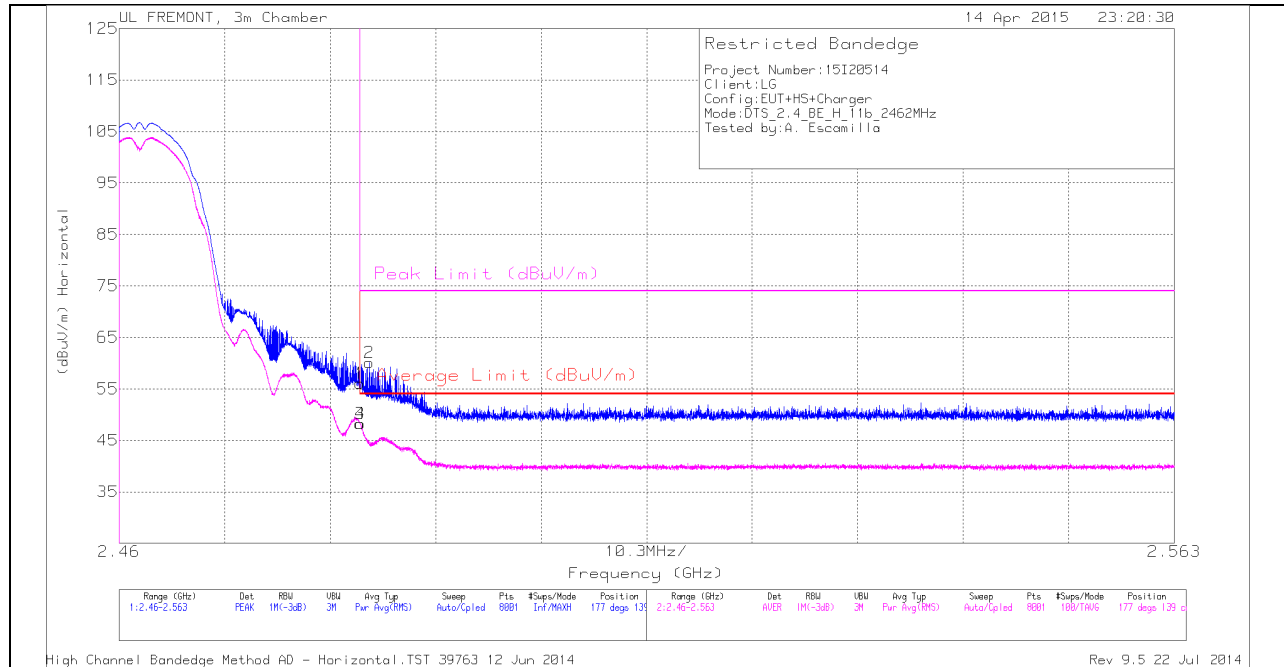
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.374	43.09	PK	31.9	-23.1	0	51.89	-	-	74	-22.11	166	137	H
1	2.39	41.95	PK	32	-23.1	0	50.85	-	-	74	-23.15	166	137	H
3	2.39	31.87	RMS	32	-23.1	.03	40.8	54	-13.2	-	-	166	137	H
4	2.39	32.16	RMS	32	-23.1	.03	41.09	54	-12.91	-	-	166	137	H

VERTICAL PEAK AND AVERAGE PLOT



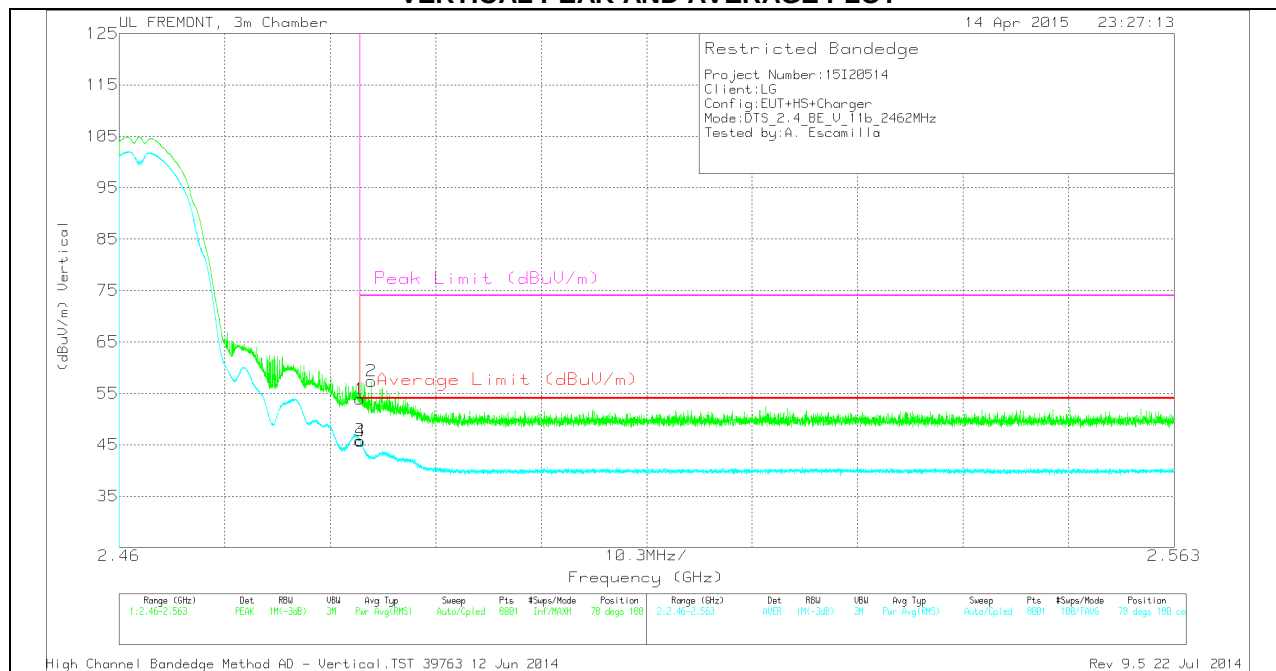
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	40.95	PK	32	-23.1	0	49.85	-	-	74	-24.15	96	195	V
2	2.39	43.28	PK	32	-23.1	0	52.18	-	-	74	-21.82	96	195	V
3	2.39	31.63	RMS	32	-23.1	.03	40.56	54	-13.44	-	-	96	195	V
4	2.39	31.86	RMS	32	-23.1	.03	40.79	54	-13.21	-	-	96	195	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)**HORIZONTAL PEAK AND AVERAGE PLOT****HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/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	46.58	PK	32.3	-22.8	0	56.08	-	-	74	-17.92	177	139	H
2	2.484	50.58	PK	32.3	-22.8	0	60.08	-	-	74	-13.92	177	139	H
3	2.484	38.71	RMS	32.3	-22.8	.03	48.24	54	-5.76	-	-	177	139	H
4	2.484	38.72	RMS	32.3	-22.8	.03	48.25	54	-5.75	-	-	177	139	H

VERTICAL PEAK AND AVERAGE PLOT

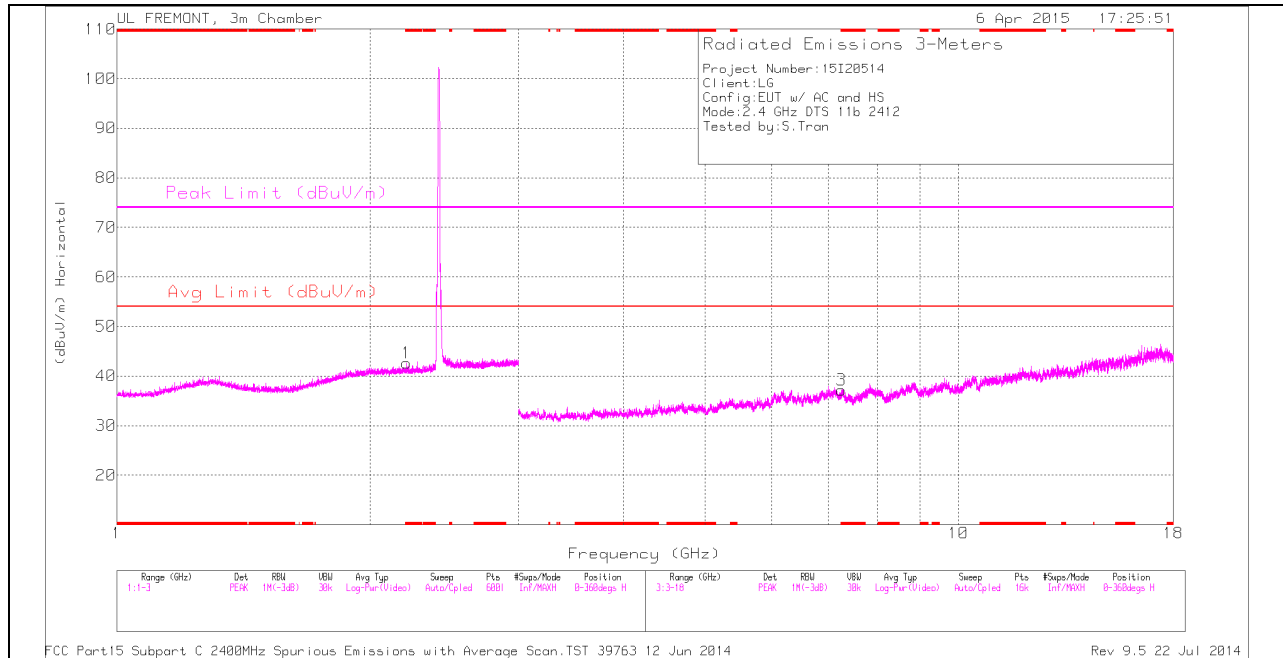


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	44.35	PK	32.3	-22.8	0	53.85	-	-	74	-20.15	78	180	V
3	2.484	36.31	RMS	32.3	-22.8	.03	45.84	54	-8.16	-	-	78	180	V
4	2.484	36.19	RMS	32.3	-22.8	.03	45.72	54	-8.28	-	-	78	180	V
2	2.485	47.86	PK	32.3	-22.8	0	57.36	-	-	74	-16.64	78	180	V

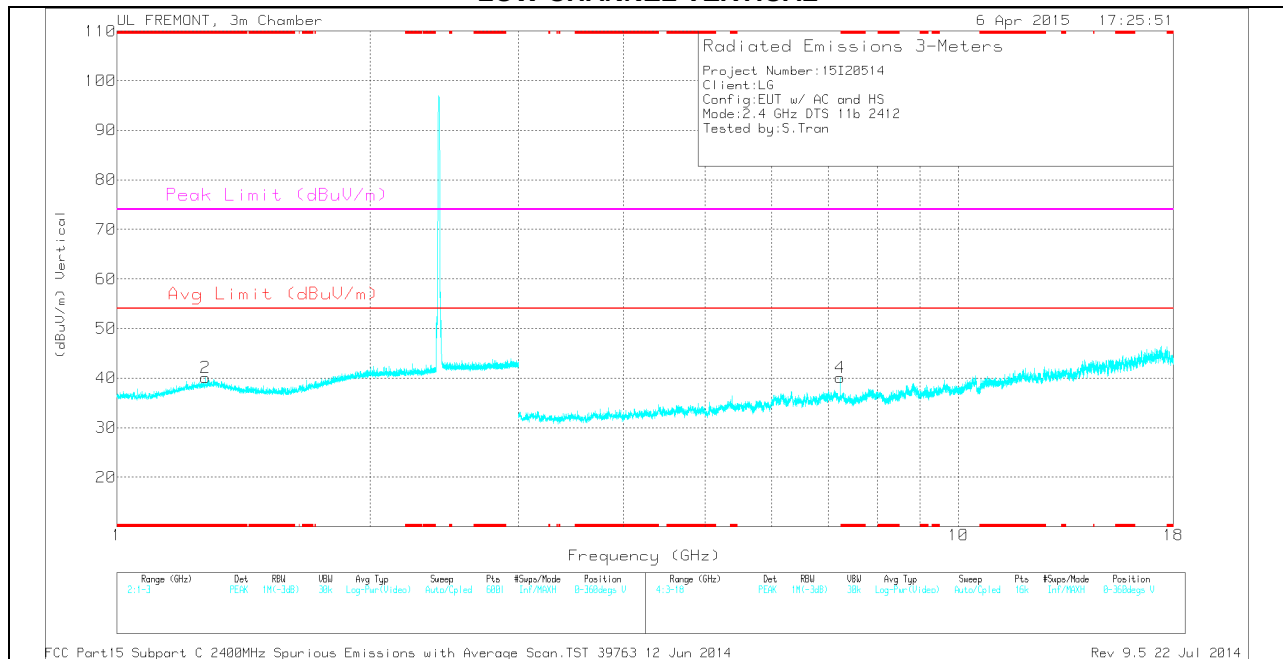
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA**TRACE MARKERS**

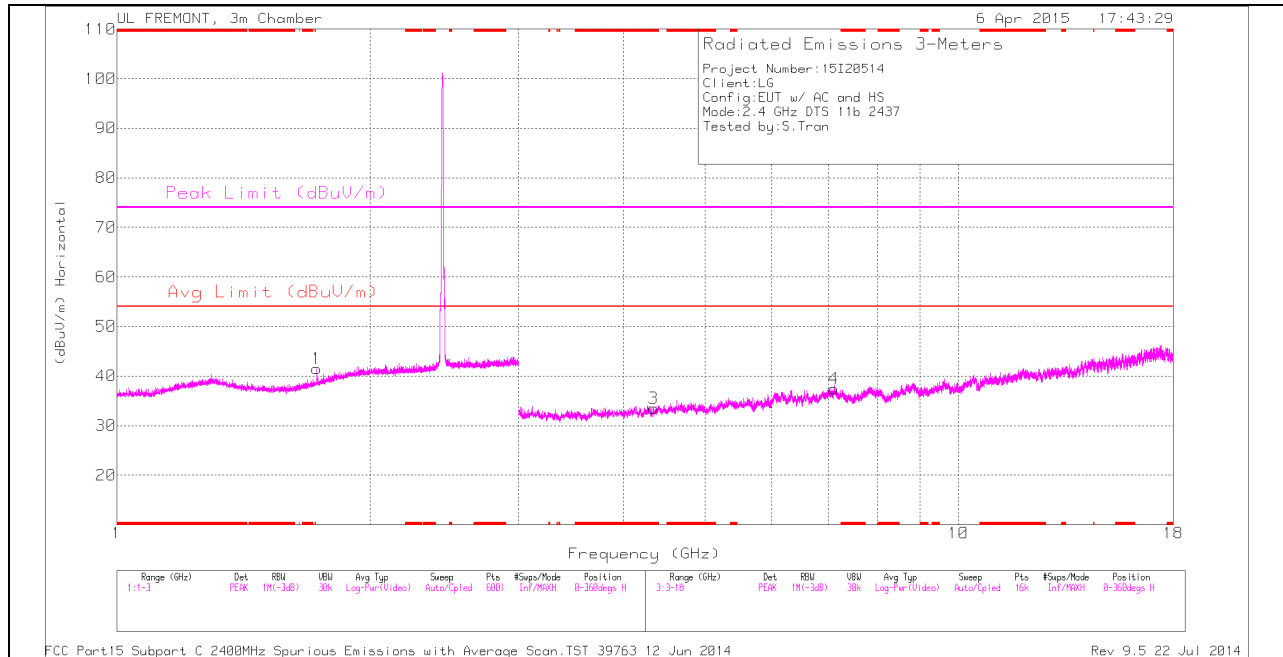
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.21	34.13	PK	31.4	-22.9	42.63	-	-	74	-31.37	0-360	100	H
2	* 1.274	34.31	PK	29.6	-23.8	40.11	-	-	74	-33.89	0-360	200	V
3	* 7.263	31.02	PK	35.6	-29.5	37.12	-	-	74	-36.88	0-360	100	H
4	7.237	34.19	PK	35.6	-29.7	40.09	-	-	-	-	0-360	100	V

PK - Peak detector

RADIATED EMISSIONS

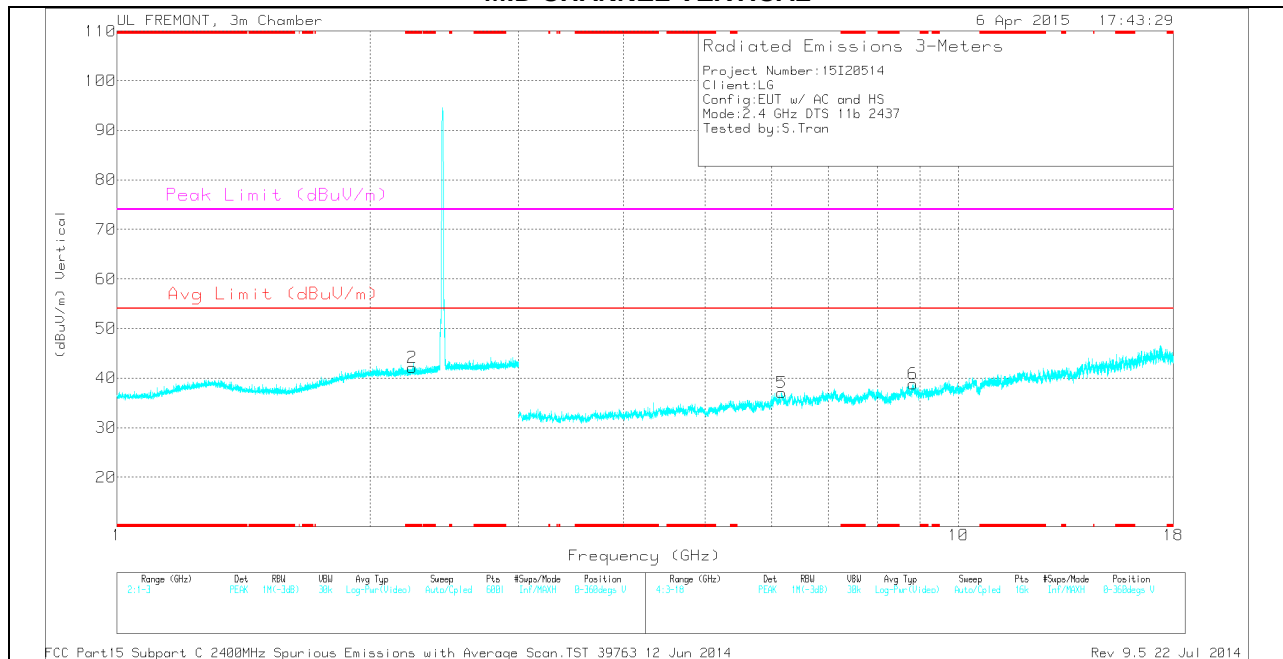
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.264	28.16	MAv1	35.6	-29.5	34.26	54	-19.74	-	-	3	100	H

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**

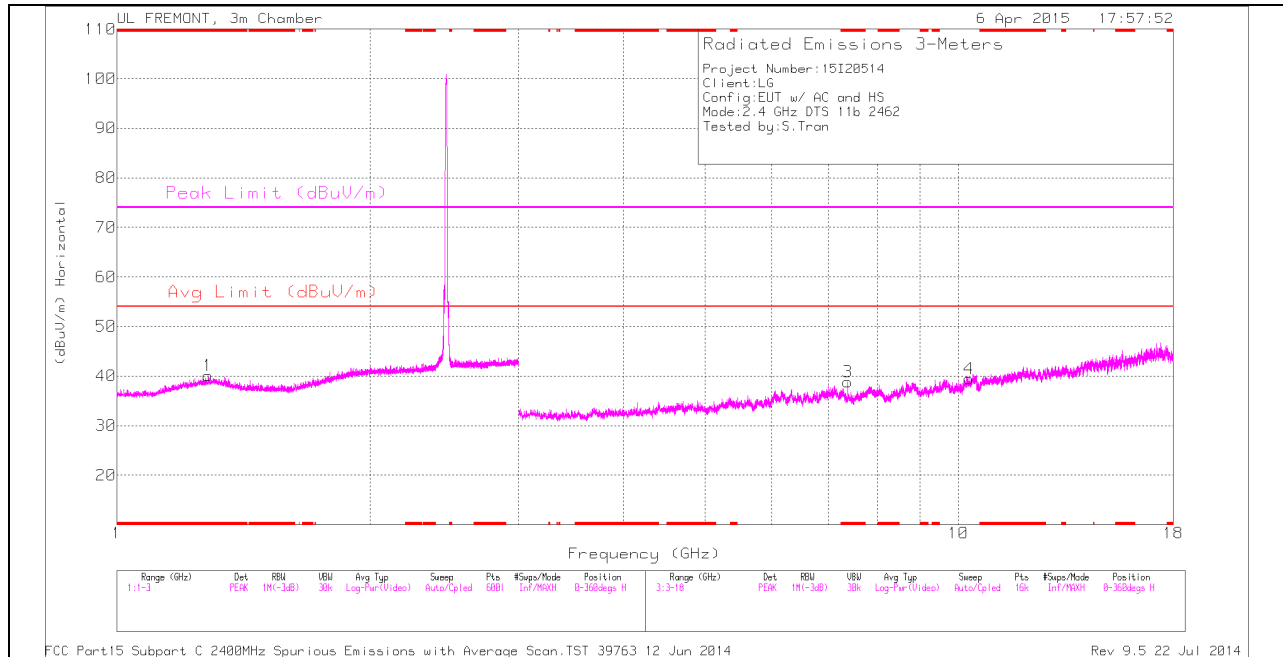
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.245	33.65	PK	31.5	-23	42.15	-	-	74	-31.85	0-360	100	V
3	* 4.342	29.95	PK	33.6	-30	33.55	-	-	74	-40.45	0-360	200	H
1	1.728	35.56	PK	29.3	-23.4	41.46	-	-	-	-	0-360	200	H
5	6.167	31.53	PK	35.3	-29.8	37.03	-	-	-	-	0-360	200	V
4	7.113	29.98	PK	35.6	-28.1	37.48	-	-	-	-	0-360	200	H
6	8.826	29.39	PK	35.9	-26.5	38.79	-	-	-	-	0-360	100	V

PK - Peak detector

RADIATED EMISSIONS

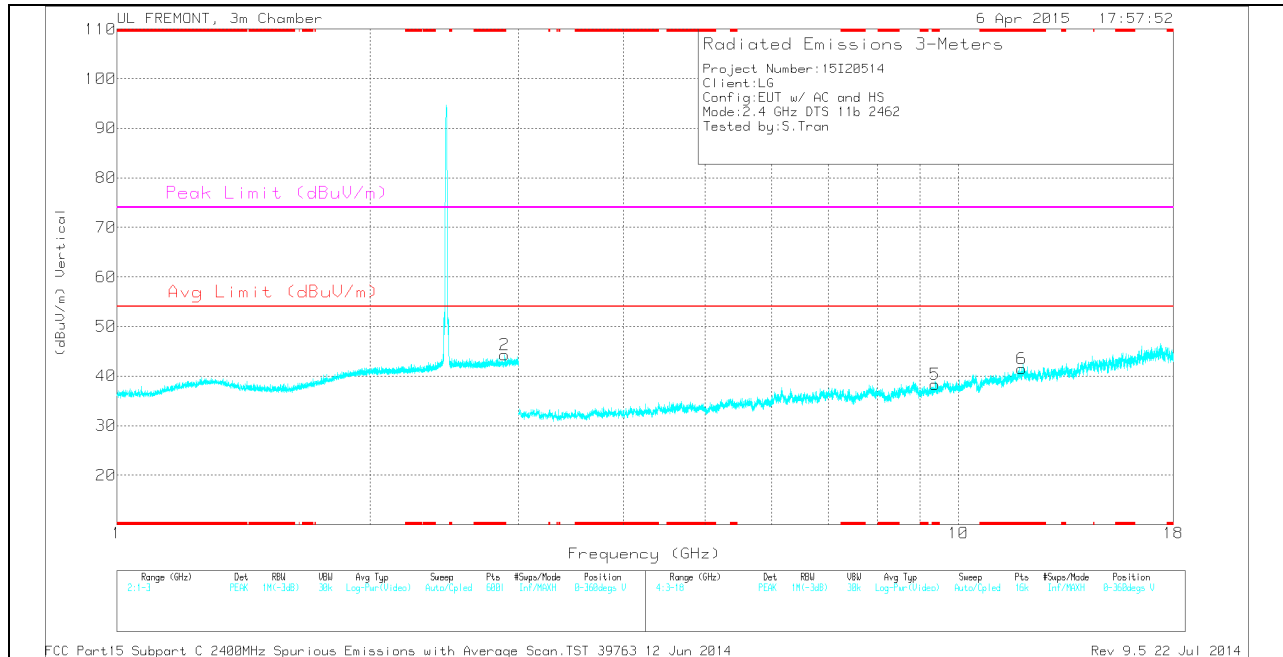
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.342	28.44	MAV1	33.6	-30	32.04	54	-21.96	-	-	0	200	H

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)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.283	34.24	PK	29.7	-23.8	40.14	-	-	74	-33.86	0-360	100	H
2	* 2.887	34.29	PK	32.6	-22.6	44.29	-	-	74	-29.71	0-360	200	V
3	* 7.384	31.56	PK	35.6	-28.3	38.86	-	-	74	-35.14	0-360	100	H
5	* 9.375	27.9	PK	36.4	-26	38.3	-	-	74	-35.7	0-360	200	V
6	* 11.899	28.68	PK	39.1	-26.3	41.48	-	-	74	-32.52	0-360	200	V
4	10.289	28.09	PK	37.1	-25.7	39.49	-	-	-	-	0-360	100	H

PK - Peak detector

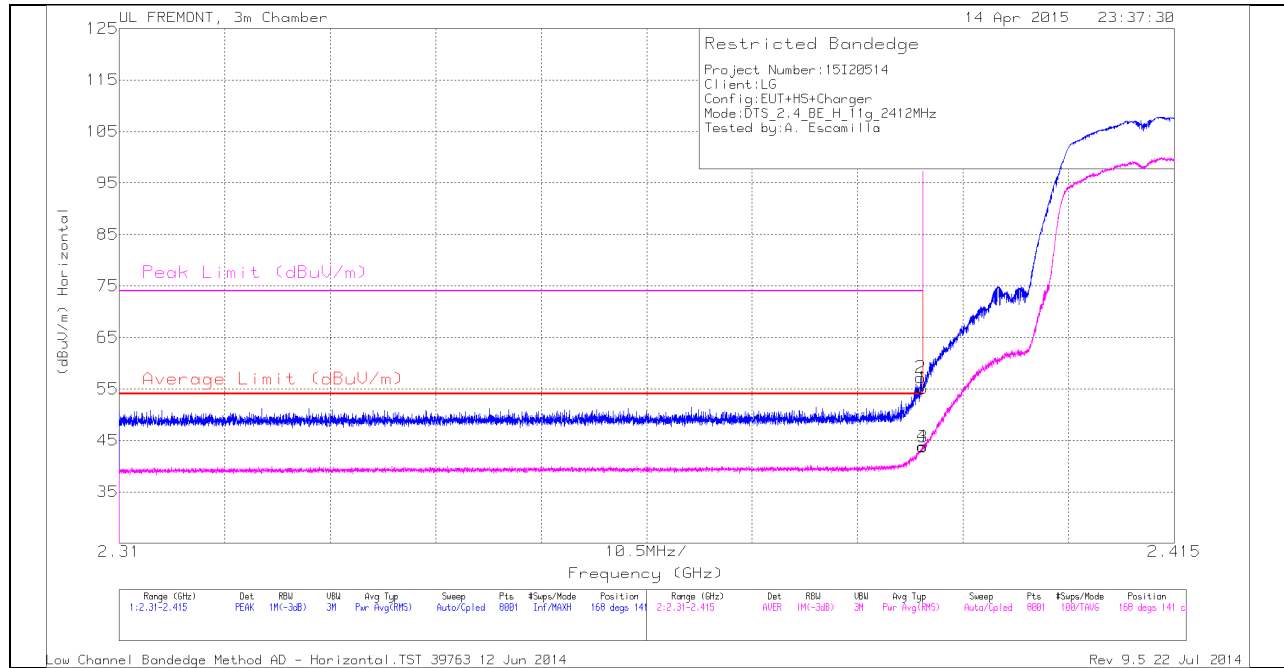
RADIATED EMISSIONS

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
* 7.384	28.2	MAV1	35.6	-28.3	35.5	54	-18.5	-	-	0	100	H

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

RESTRICTED BANDEDGE (LOW CHANNEL)

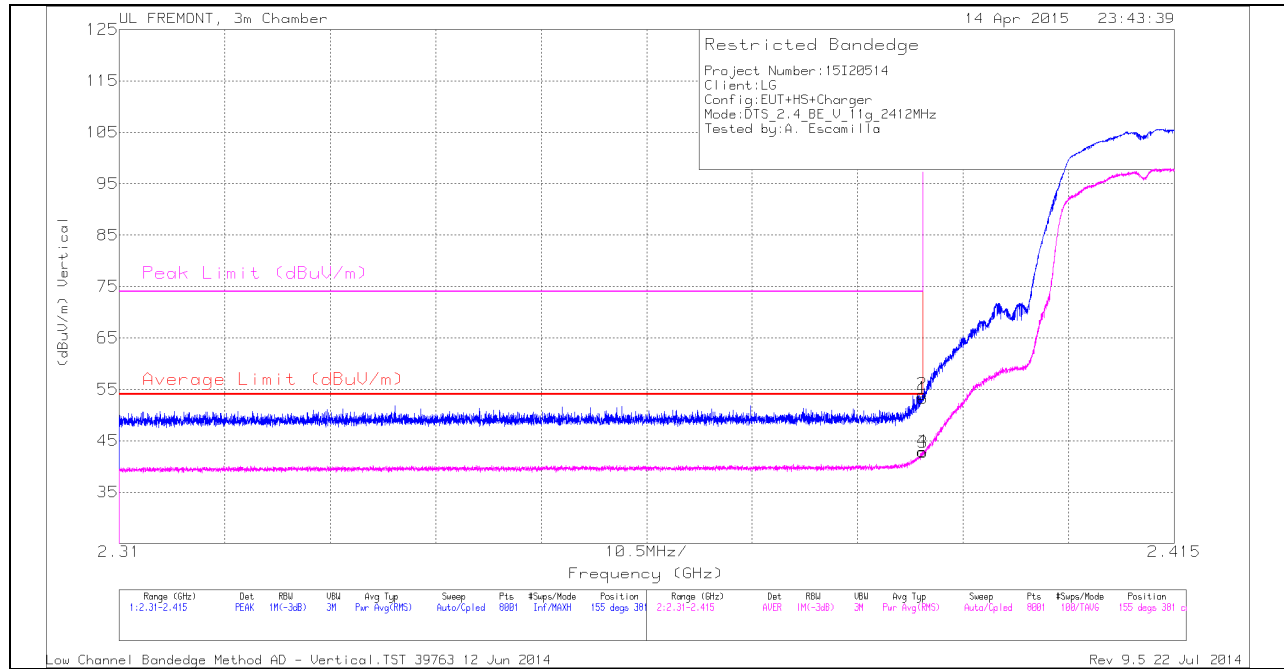
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

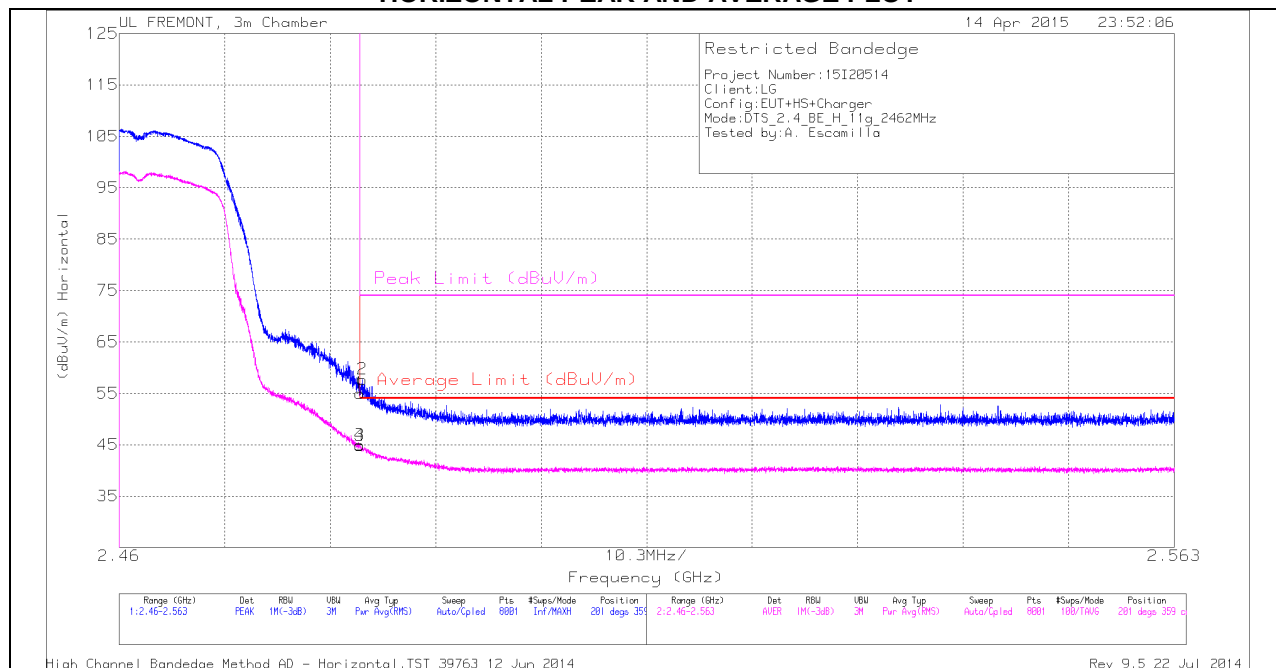
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	46.25	PK	32	-23.1	0	55.15	-	-	74	-18.85	168	141	H
2	2.39	48.29	PK	32	-23.1	0	57.19	-	-	74	-16.81	168	141	H
3	2.39	34.61	RMS	32	-23.1	.2	43.71	54	-10.29	-	-	168	141	H
4	2.39	34.76	RMS	32	-23.1	.2	43.86	54	-10.14	-	-	168	141	H

VERTICAL PEAK AND AVERAGE PLOT



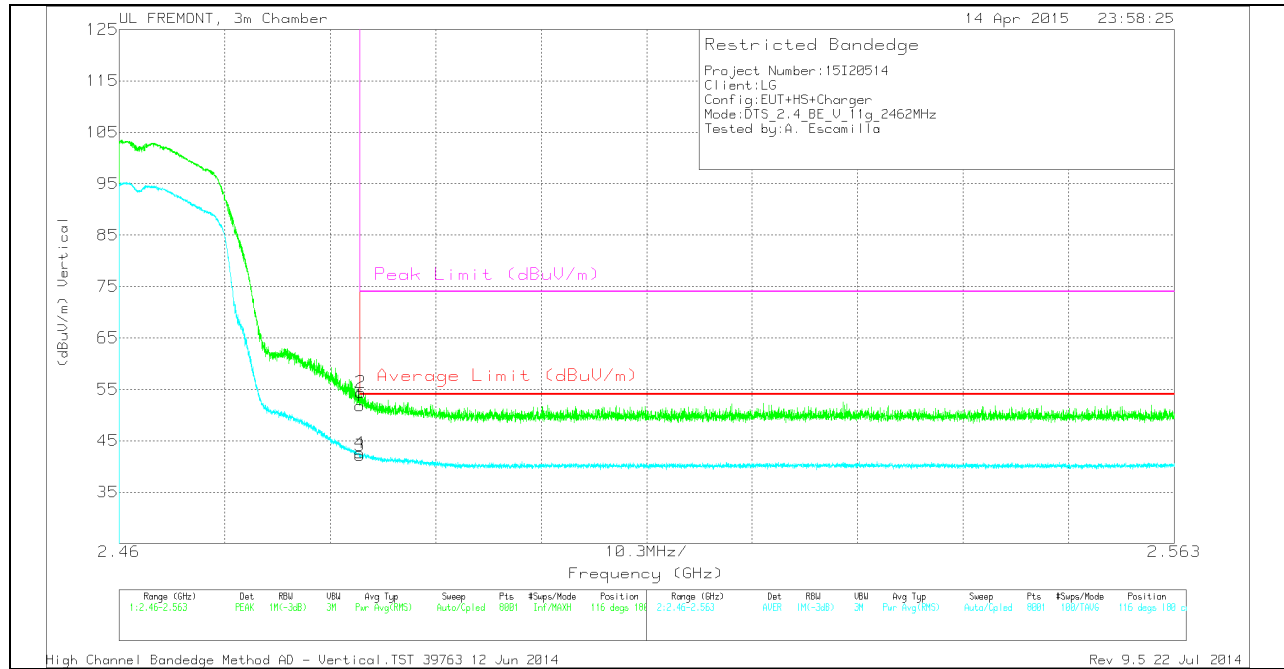
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	44.41	PK	32	-23.1	0	53.31	-	-	74	-20.69	155	381	V
2	2.39	45.14	PK	32	-23.1	0	54.04	-	-	74	-19.96	155	381	V
3	2.39	33.41	RMS	32	-23.1	.44	42.75	54	-11.25	-	-	155	381	V
4	2.39	33.58	RMS	32	-23.1	.44	42.92	54	-11.08	-	-	155	381	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)**HORIZONTAL PEAK AND AVERAGE PLOT****HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	45.5	PK	32.3	-22.8	0	55	-	-	74	-19	201	359	H
2	2.484	48.21	PK	32.3	-22.8	0	57.71	-	-	74	-16.29	201	359	H
3	2.484	35.18	RMS	32.3	-22.8	.2	44.88	54	-9.12	-	-	201	359	H
4	2.484	35.26	RMS	32.3	-22.8	.2	44.96	54	-9.04	-	-	201	359	H

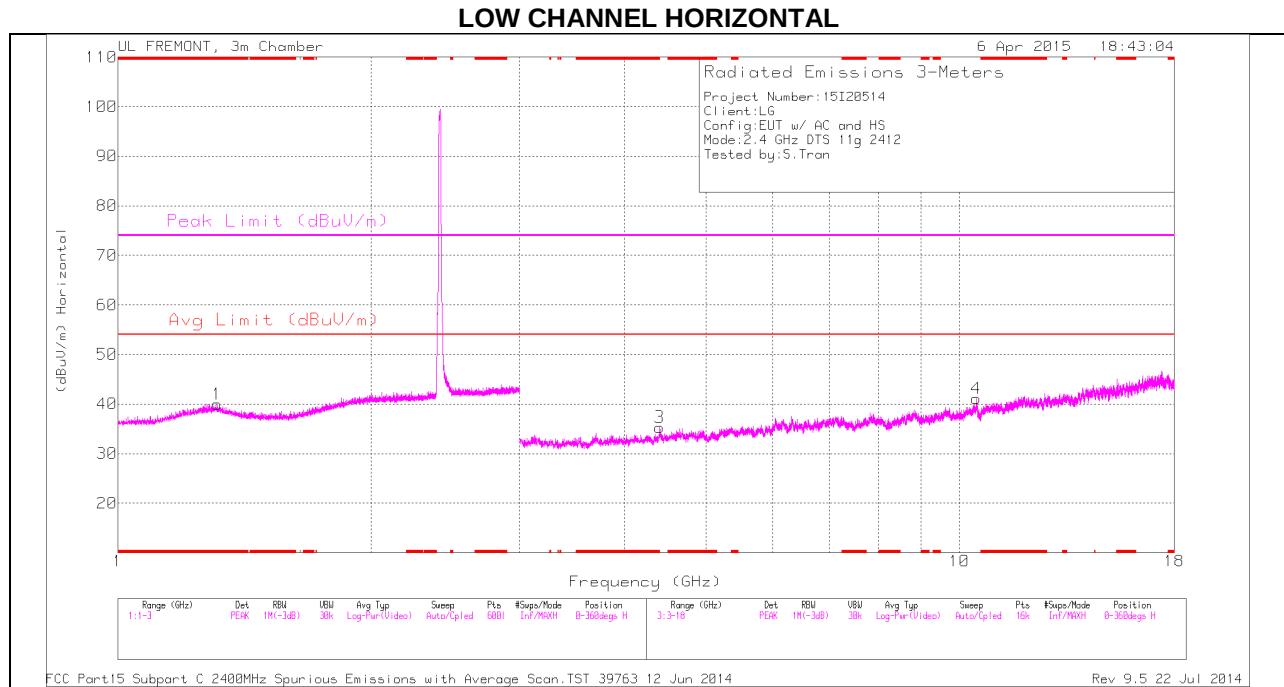
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

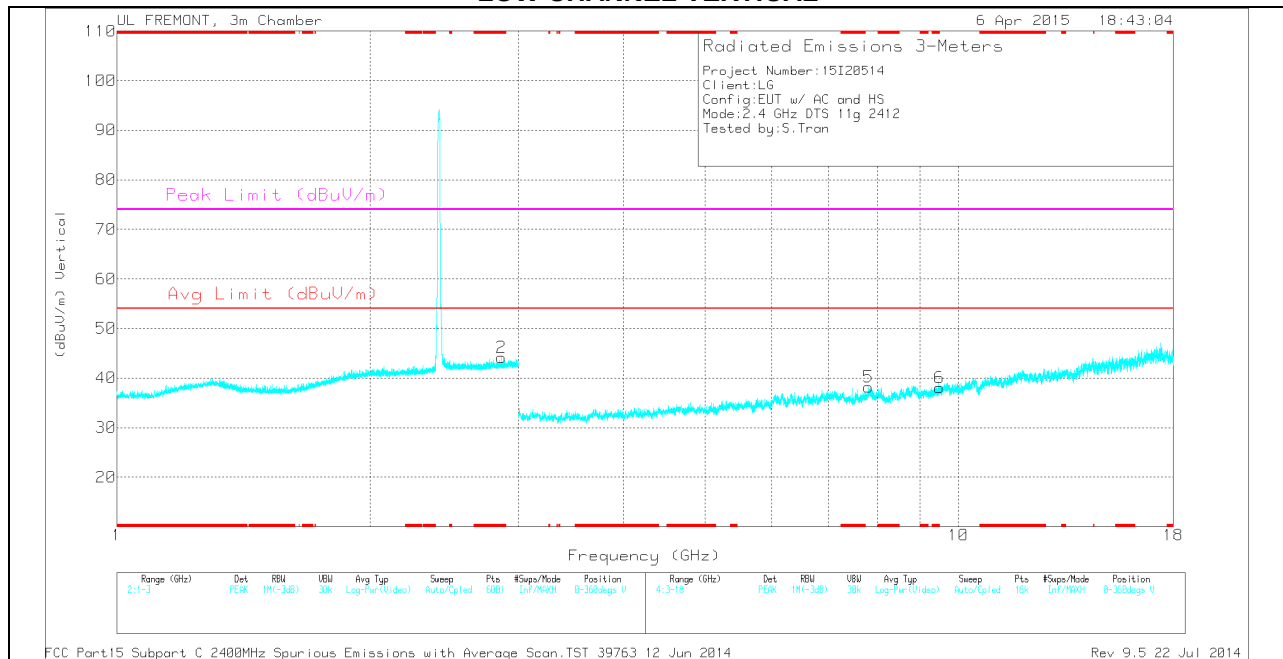
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	42.33	PK	32.3	-22.8	0	51.83	-	-	74	-22.17	116	180	V
2	2.484	44.88	PK	32.3	-22.8	0	54.38	-	-	74	-19.62	116	180	V
3	2.484	32.41	RMS	32.3	-22.8	.2	42.11	54	-11.89	-	-	116	180	V
4	2.484	32.9	RMS	32.3	-22.8	.2	42.6	54	-11.4	-	-	116	180	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.

LOW CHANNEL VERTICAL



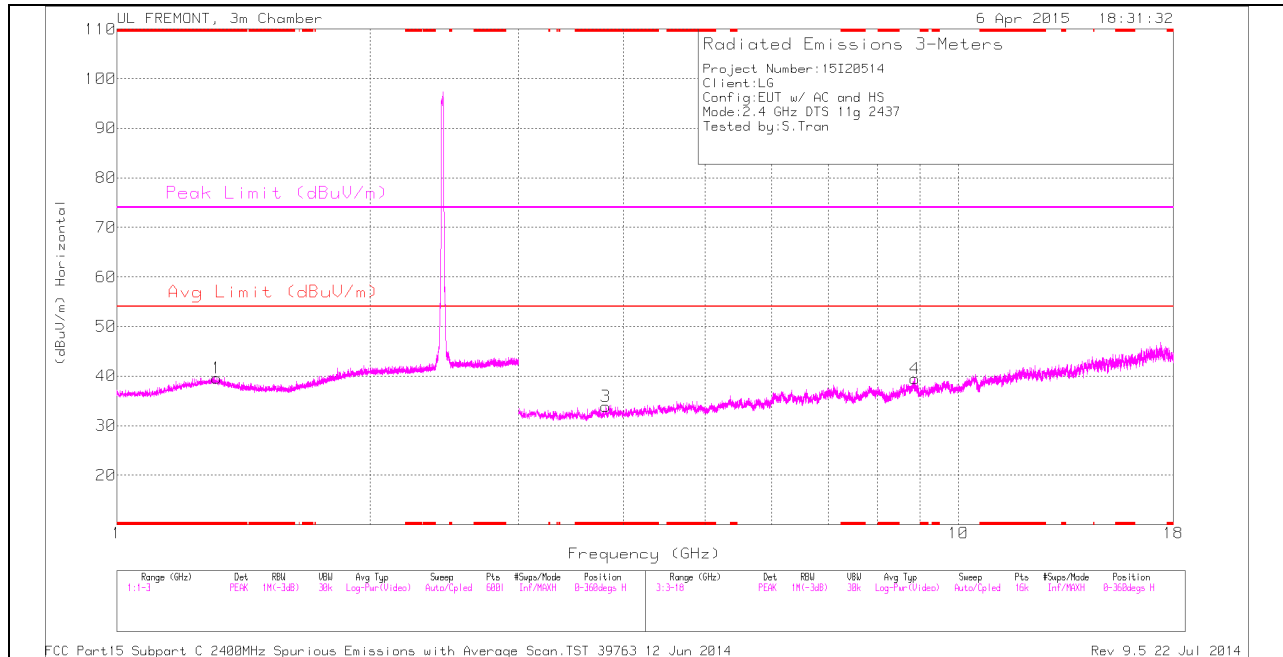
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA**TRACE MARKERS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filt /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	* 1.311	34.02	PK	29.8	-23.8	0	40.02	-	-	74	-33.98	0-360	100	H
2	* 2.865	34.38	PK	32.6	-22.8	0	44.18	-	-	74	-29.82	0-360	100	V
6	* 9.498	27.9	PK	36.6	-26.4	0	38.1	-	-	74	-35.9	0-360	200	V
3	4.404	31.83	PK	33.6	-30.1	0	35.33	-	-	-	-	0-360	100	H
5	7.819	30.34	PK	35.8	-28	0	38.14	-	-	-	-	0-360	100	V
4	10.465	28.69	PK	37.4	-25	0	41.09	-	-	-	-	0-360	200	H

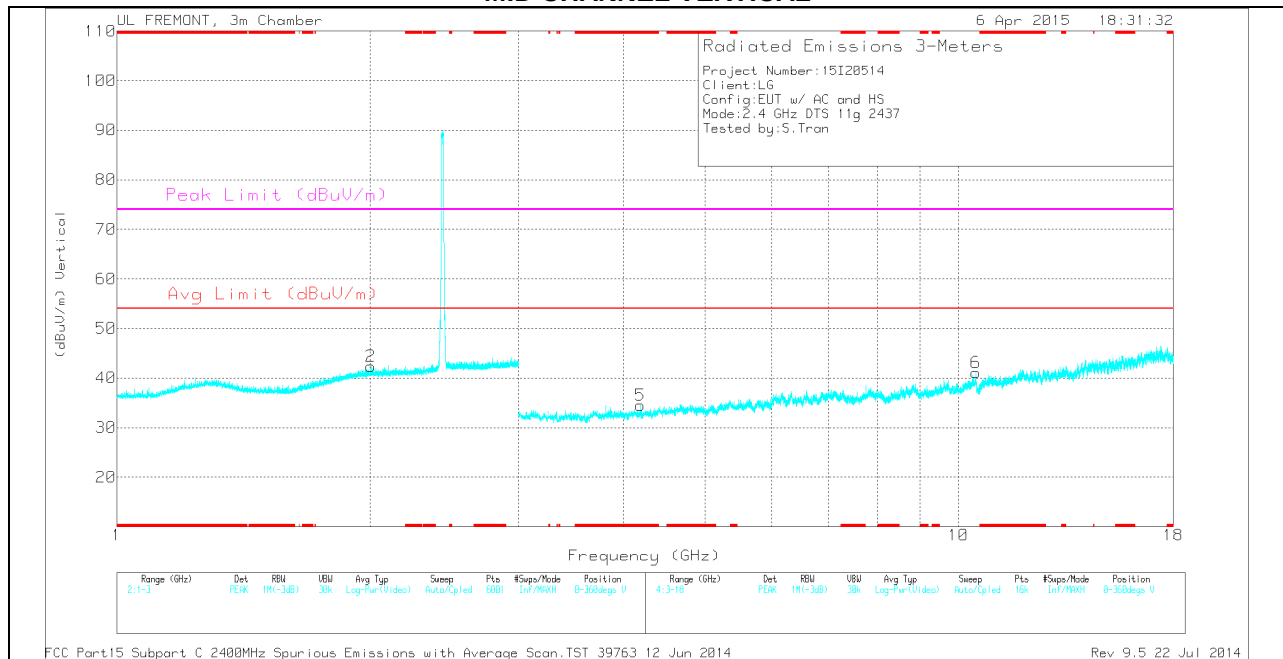
PK - Peak detector

MID CHANNEL HORIZONTAL



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

MID CHANNEL VERTICAL



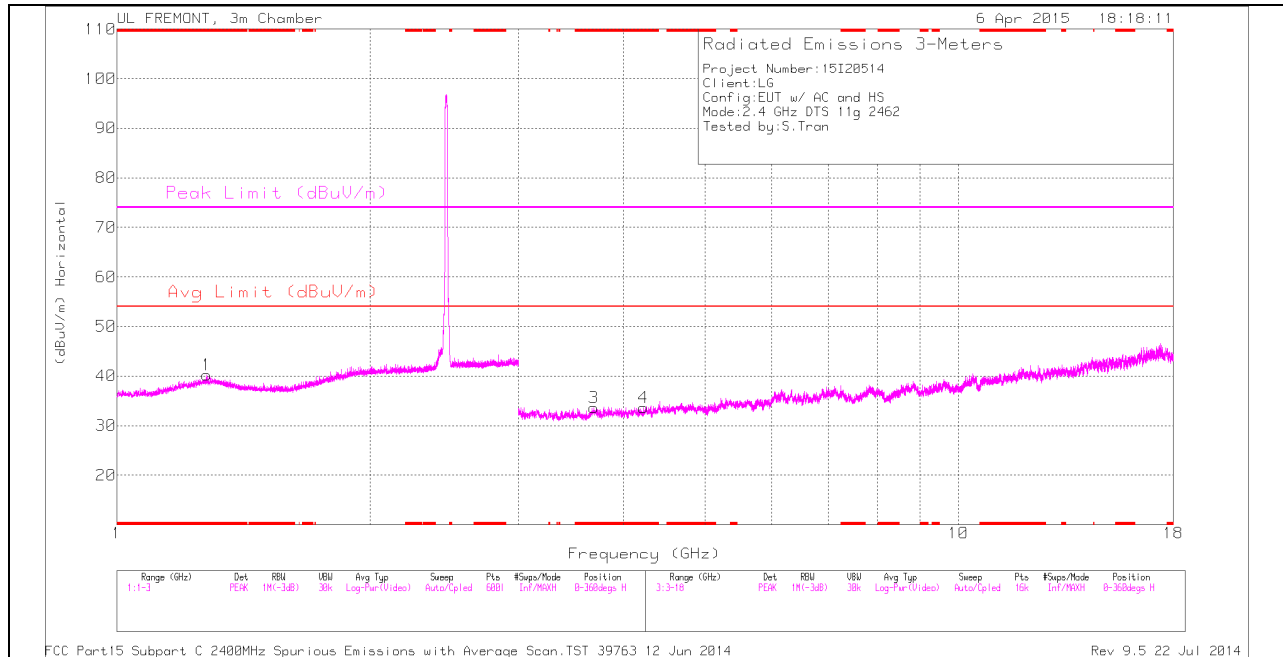
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA**TRACE MARKERS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.315	33.63	PK	29.7	-23.8	0	39.53	-	-	74	-34.47	0-360	100	H
3	* 3.812	31.93	PK	33.1	-31.2	0	33.83	-	-	74	-40.17	0-360	100	H
5	* 4.188	31.69	PK	33.3	-30.5	0	34.49	-	-	74	-39.51	0-360	100	V
2	2.001	34.06	PK	31.5	-23.2	0	42.36	-	-	-	-	0-360	100	V
4	8.877	30.1	PK	35.9	-26.5	0	39.5	-	-	-	-	0-360	100	H
6	10.494	29.2	PK	37.5	-25.6	0	41.1	-	-	-	-	0-360	200	V

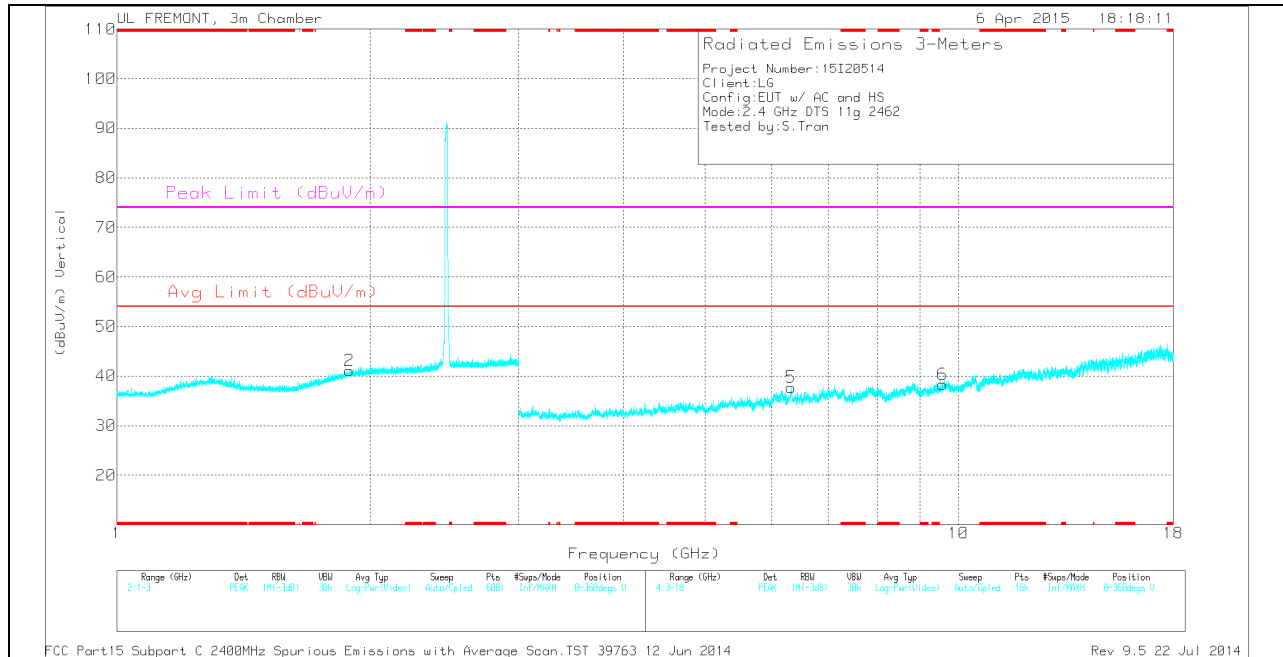
PK - Peak detector

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA**TRACE MARKERS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.279	34.36	PK	29.7	-23.8	0	40.26	-	-	74	-33.74	0-360	200	H
3	* 3.684	31.36	PK	33	-30.7	0	33.66	-	-	74	-40.34	0-360	100	H
4	* 4.222	31.08	PK	33.4	-30.9	0	33.58	-	-	74	-40.42	0-360	100	H
2	1.89	33.41	PK	31	-23.3	0	41.11	-	-	-	-	0-360	200	V
5	6.331	31.44	PK	35.4	-29.1	0	37.74	-	-	-	-	0-360	100	V
6	9.582	27.56	PK	36.7	-25.9	0	38.36	-	-	-	-	0-360	200	V

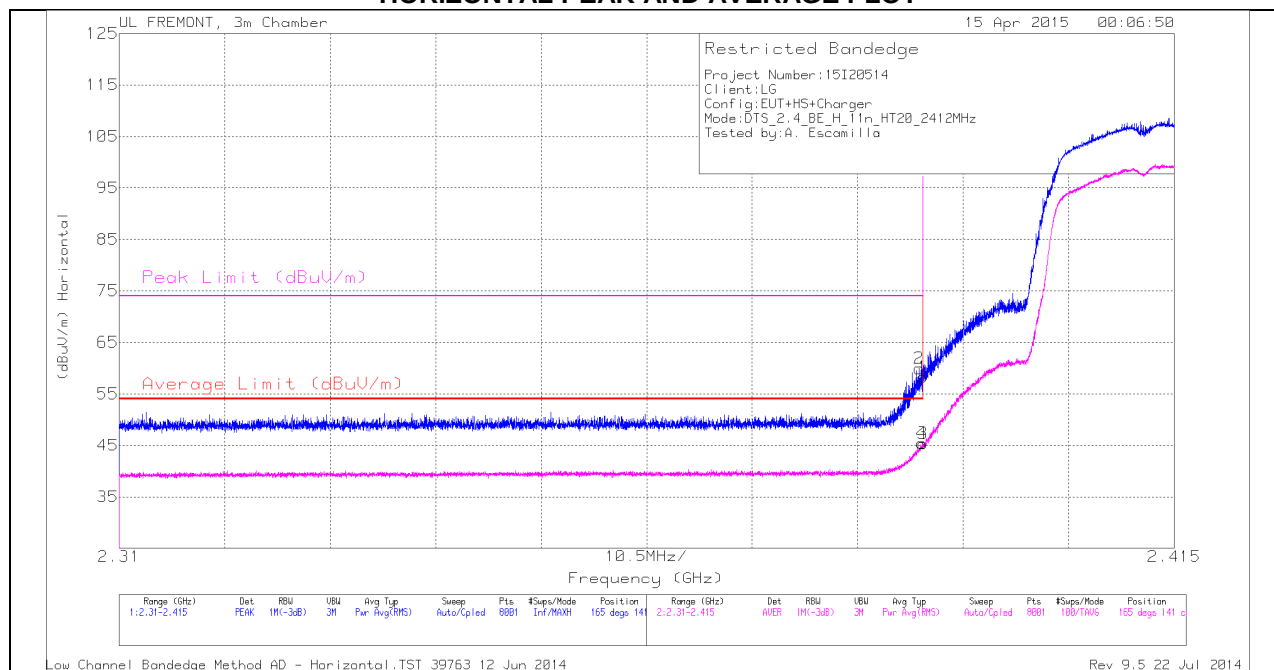
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 4.224	29.18	MAV1	33.4	-30.9	.2	31.88	54	-22.12	-	-	0	100	H

9.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

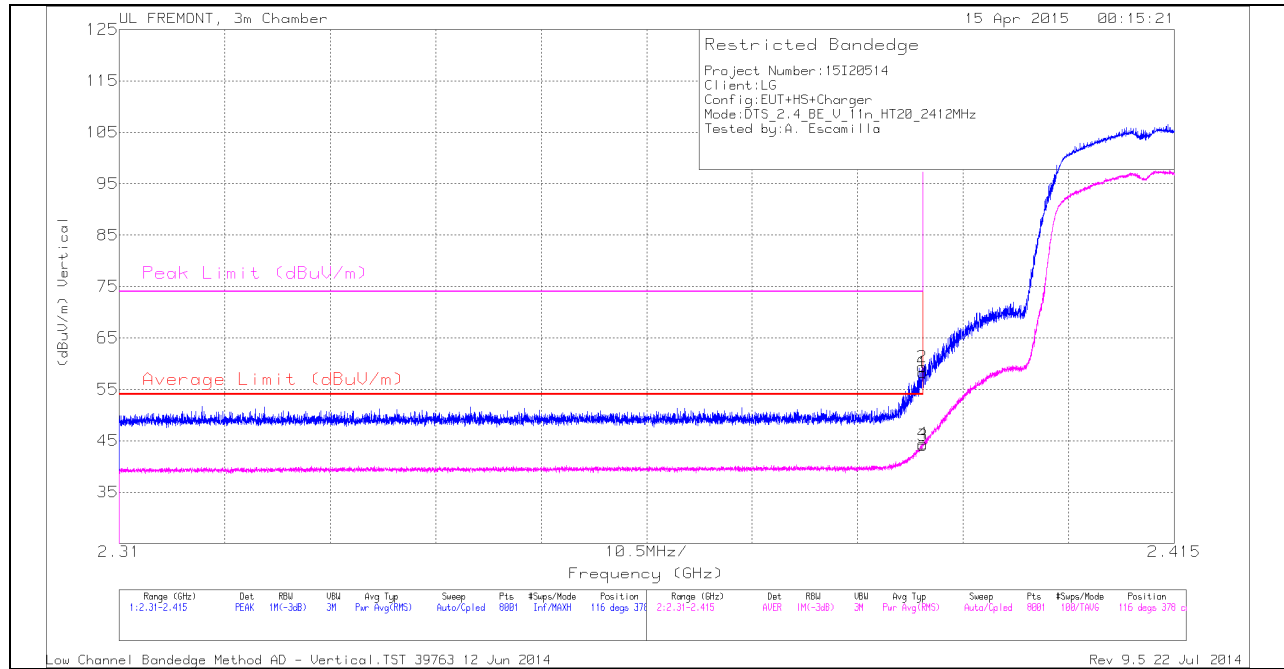
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

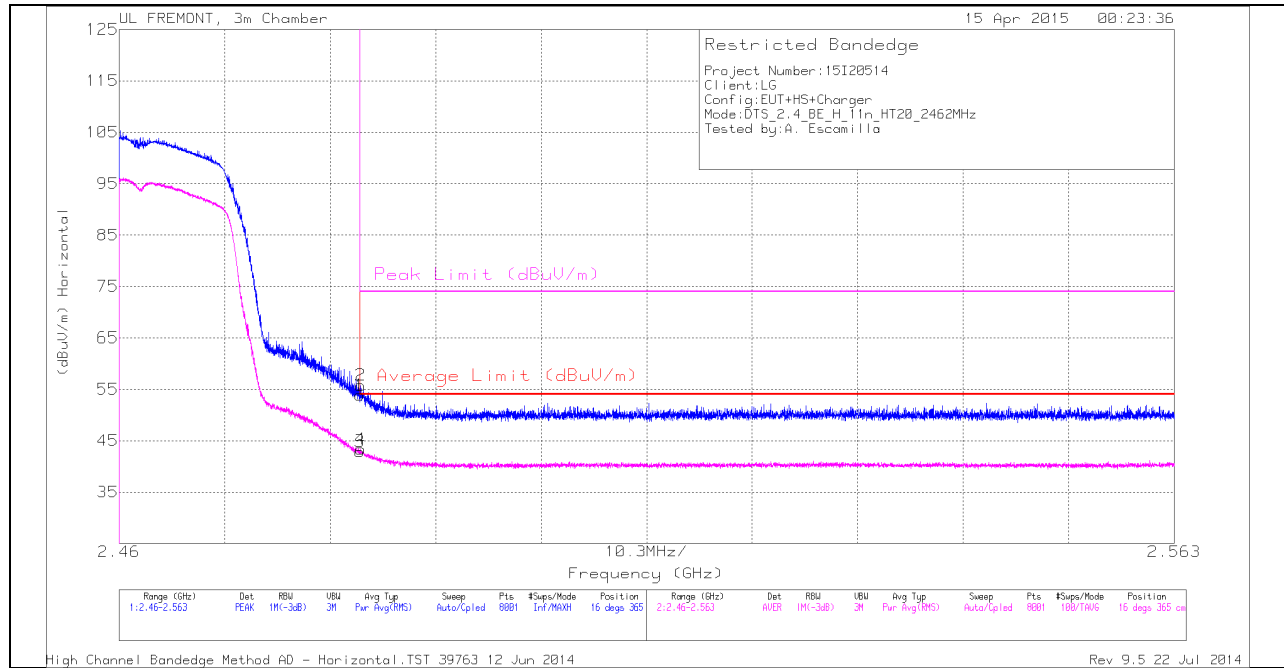
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	49.36	PK	32	-23.1	0	58.26	-	-	74	-15.74	165	141	H
2	2.39	51.04	PK	32	-23.1	0	59.94	-	-	74	-14.06	165	141	H
3	2.39	36.2	RMS	32	-23.1	.26	45.36	54	-8.64	-	-	165	141	H
4	2.39	36.29	RMS	32	-23.1	.26	45.45	54	-8.55	-	-	165	141	H

VERTICAL PEAK AND AVERAGE PLOT



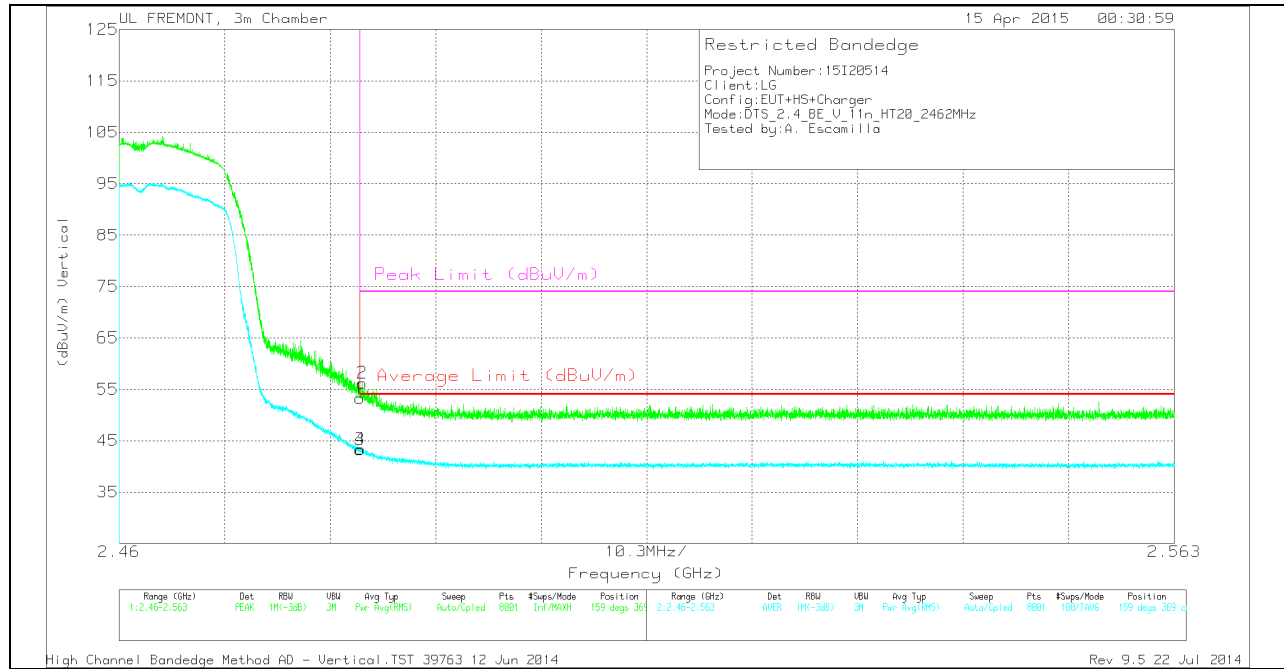
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	49.34	PK	32	-23.1	0	58.24	-	-	74	-15.76	116	378	V
2	2.39	50.45	PK	32	-23.1	0	59.35	-	-	74	-14.65	116	378	V
3	2.39	34.91	RMS	32	-23.1	.26	44.07	54	-9.93	-	-	116	378	V
4	2.39	35.26	RMS	32	-23.1	.26	44.42	54	-9.58	-	-	116	378	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)**HORIZONTAL PEAK AND AVERAGE PLOT****HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	44.34	PK	32.3	-22.8	0	53.84	-	-	74	-20.16	16	365	H
2	2.484	46.27	PK	32.3	-22.8	0	55.77	-	-	74	-18.23	16	365	H
3	2.484	33.15	RMS	32.3	-22.8	.26	42.91	54	-11.09	-	-	16	365	H
4	2.484	33.57	RMS	32.3	-22.8	.26	43.33	54	-10.67	-	-	16	365	H

VERTICAL PEAK AND AVERAGE PLOT

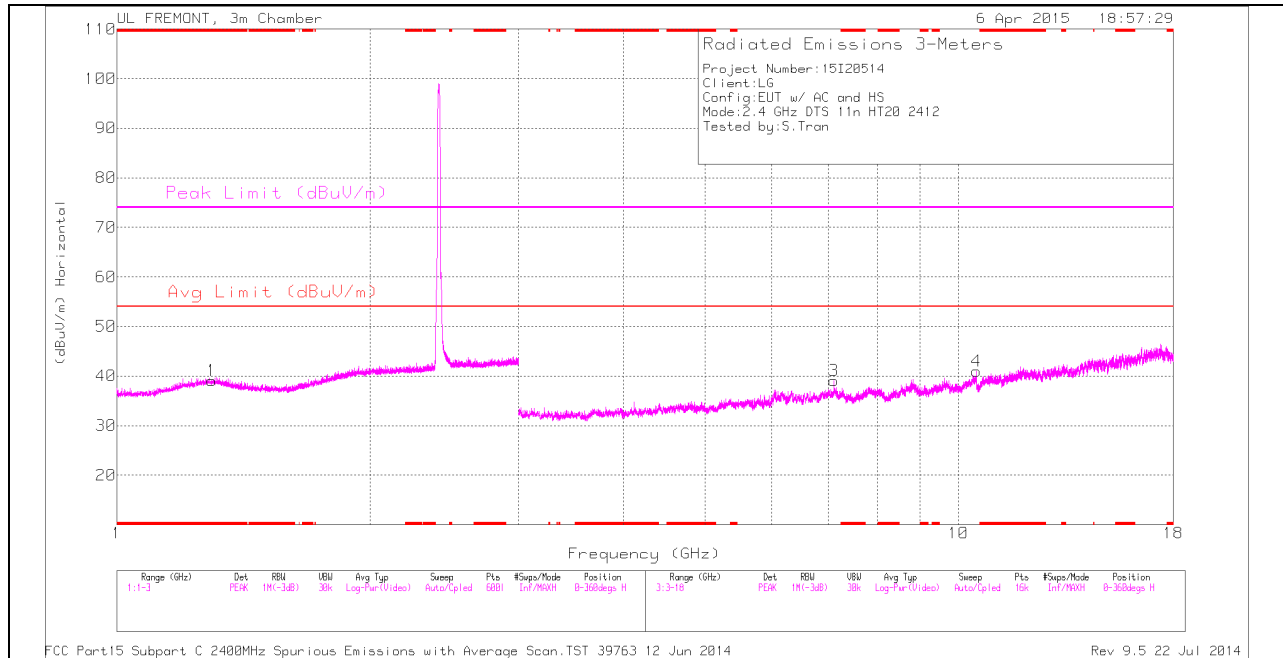


VERTICAL DATA

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	43.77	PK	32.3	-22.8	0	53.27	-	-	74	-20.73	159	369	V
2	2.484	46.74	PK	32.3	-22.8	0	56.24	-	-	74	-17.76	159	369	V
3	2.484	33.53	RMS	32.3	-22.8	.26	43.29	54	-10.71	-	-	159	369	V
4	2.484	33.63	RMS	32.3	-22.8	.26	43.39	54	-10.61	-	-	159	369	V

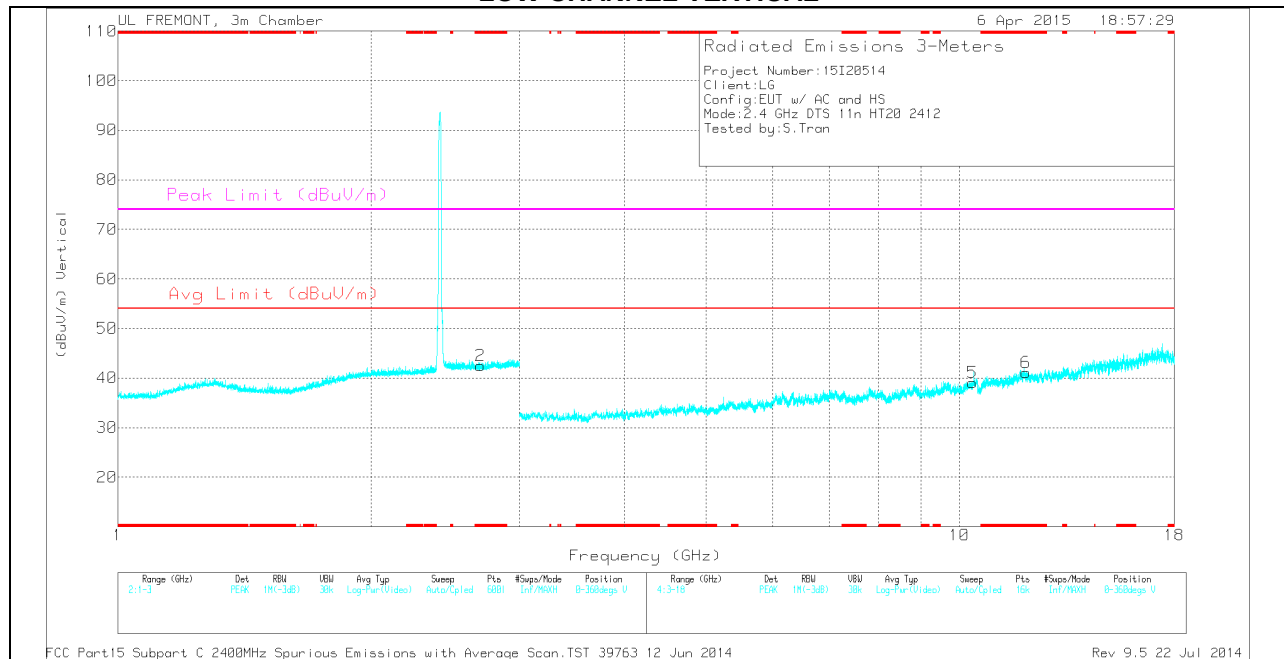
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA**TRACE MARKERS**

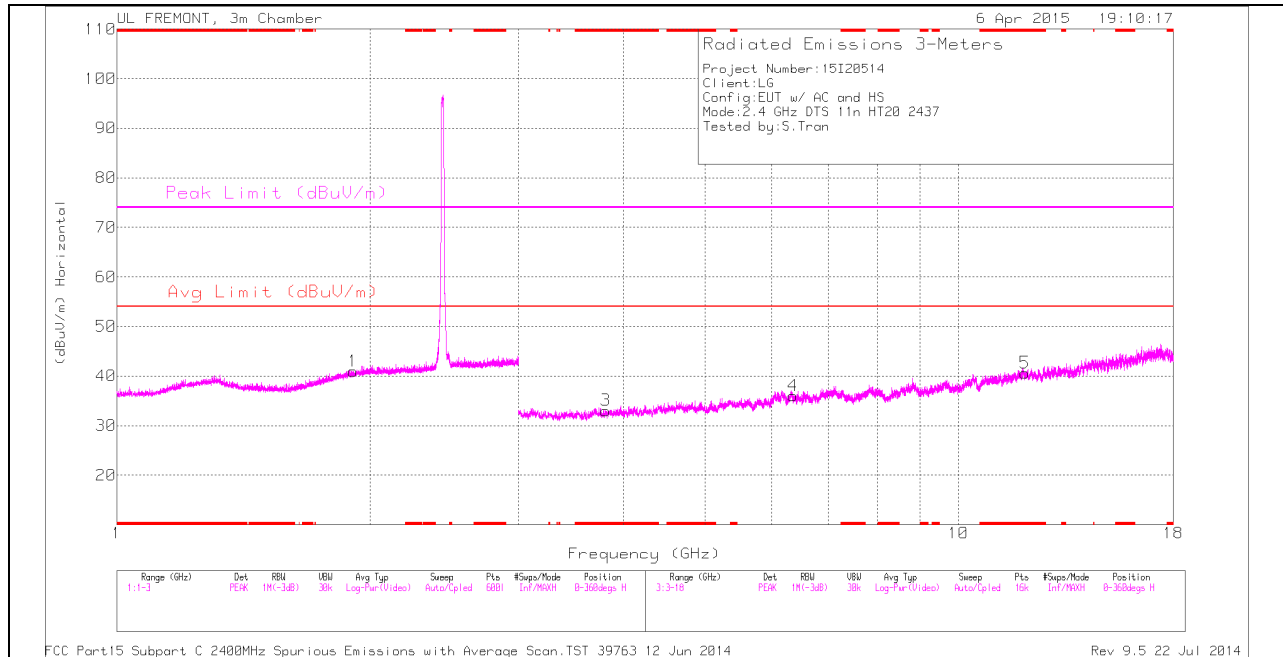
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.297	33.02	PK	29.9	-23.8	0	39.12	-	-	74	-34.88	0-360	100	H
2	* 2.695	33.01	PK	32.3	-22.8	0	42.51	-	-	74	-31.49	0-360	200	V
6	* 11.987	27.86	PK	39.1	-25.8	0	41.16	-	-	74	-32.84	0-360	200	V
3	7.108	31.48	PK	35.6	-28	0	39.08	-	-	-	-	0-360	100	H
5	10.366	27.63	PK	37.2	-25.7	0	39.13	-	-	-	-	0-360	200	V
4	10.499	29.04	PK	37.5	-25.6	0	40.94	-	-	-	-	0-360	100	H

PK - Peak detector

RADIATED EMISSIONS

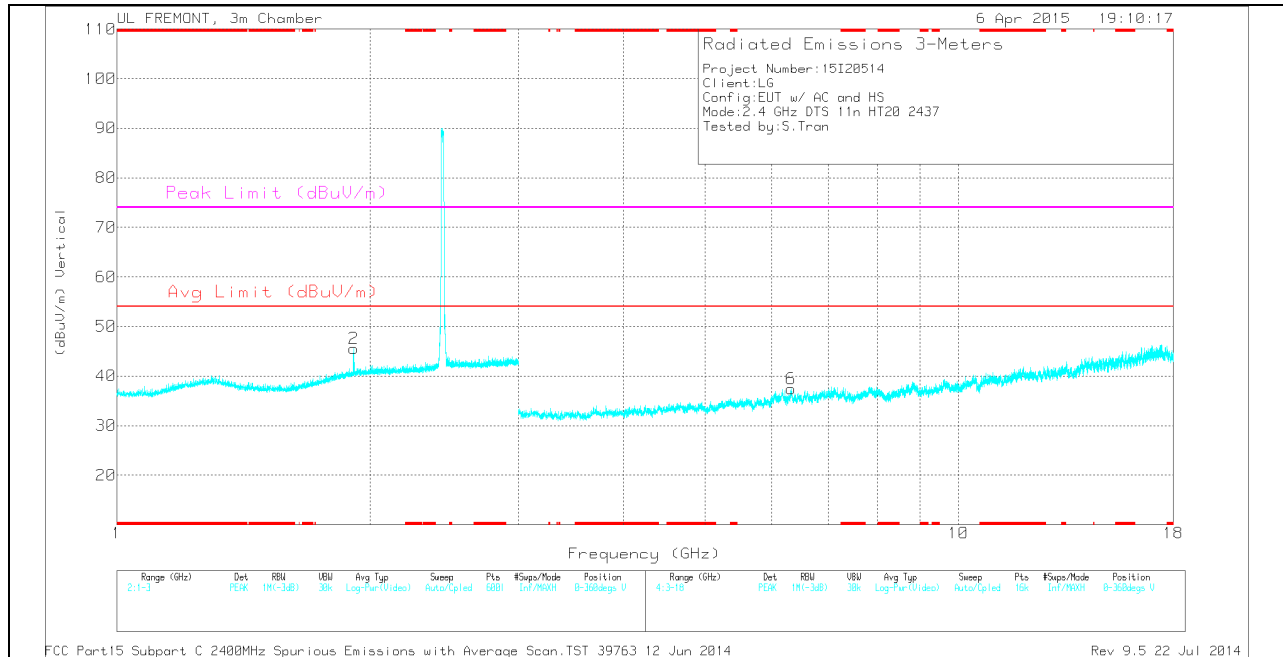
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.695	27.73	Avg	32.3	-22.8	.26	37.49	54	-16.51	-	-	0	200	V

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**

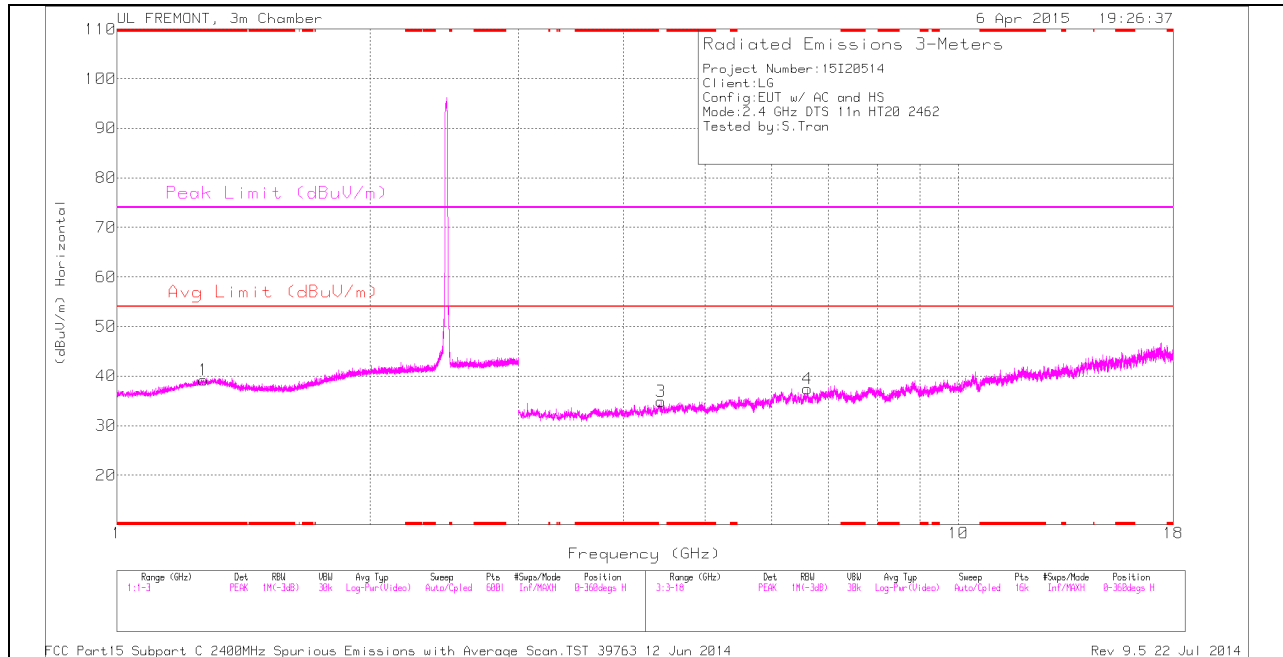
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 3.81	31.15	PK	33.1	-31.2	0	33.05	-	-	74	-40.95	0-360	200	H
5	* 11.989	27.36	PK	39.1	-25.8	0	40.66	-	-	74	-33.34	0-360	100	H
1	1.91	33.05	PK	31.1	-23.2	0	40.95	-	-	-	-	0-360	100	H
2	1.91	37.64	PK	31.1	-23.2	0	45.54	-	-	-	-	0-360	100	V
6	6.327	31.17	PK	35.4	-29.1	0	37.47	-	-	-	-	0-360	100	V
4	6.357	29.44	PK	35.5	-28.9	0	36.04	-	-	-	-	0-360	200	H

PK - Peak detector

RADIATED EMISSIONS

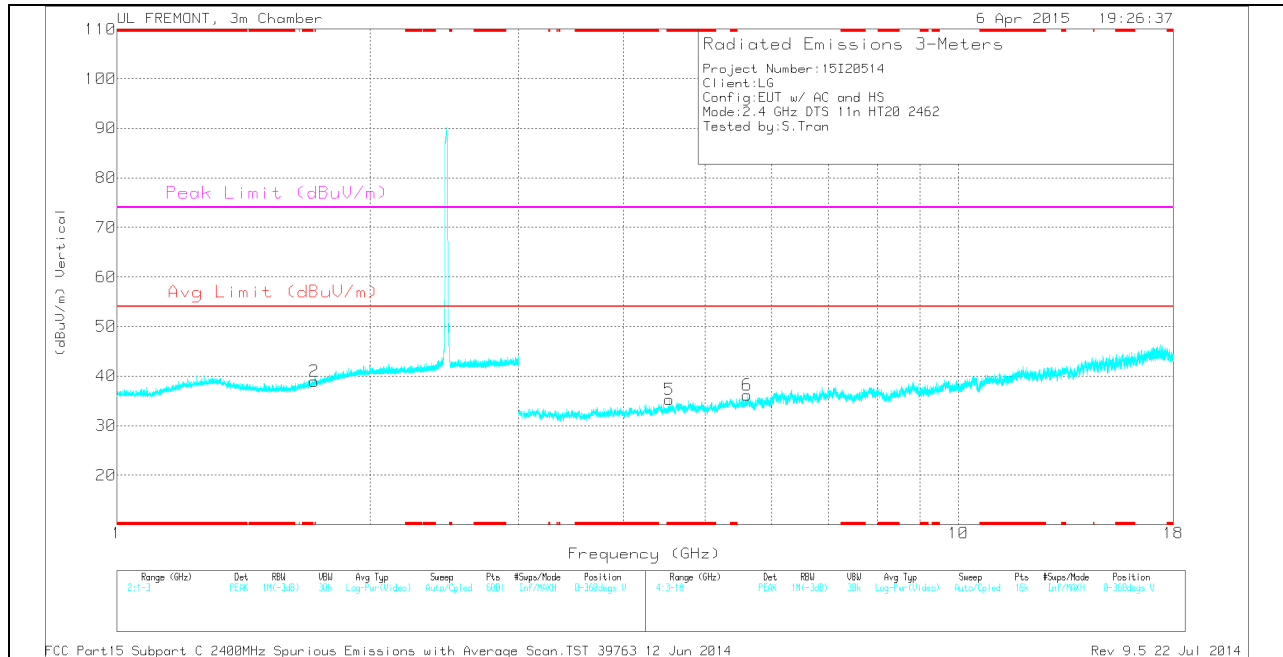
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.988	25.64	MAv1	39.1	-25.8	.26	39.2	54	-14.8	-	-	0	100	H

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA**TRACE MARKERS**

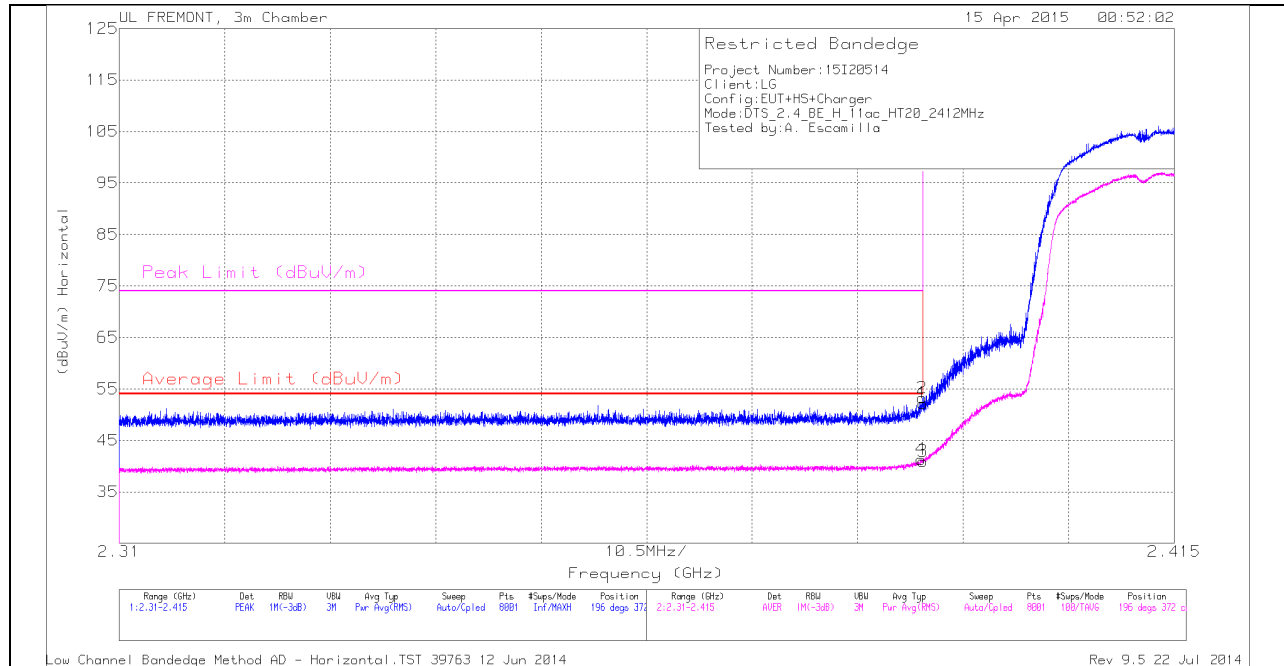
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filt /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.267	33.43	PK	29.6	-23.8	0	39.23	-	-	74	-34.77	0-360	200	H
5	* 4.53	33.02	PK	33.8	-31.5	0	35.32	-	-	74	-38.68	0-360	200	V
2	1.715	33.14	PK	29.2	-23.4	0	38.94	-	-	-	-	0-360	200	V
3	4.429	31.76	PK	33.7	-30.6	0	34.86	-	-	-	-	0-360	100	H
6	5.605	30.74	PK	34.6	-29.2	0	36.14	-	-	-	-	0-360	100	V
4	6.617	30.23	PK	35.6	-28.4	0	37.43	-	-	-	-	0-360	100	H

PK - Peak detector

9.2.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

RESTRICTED BANDEDGE (LOW CHANNEL)

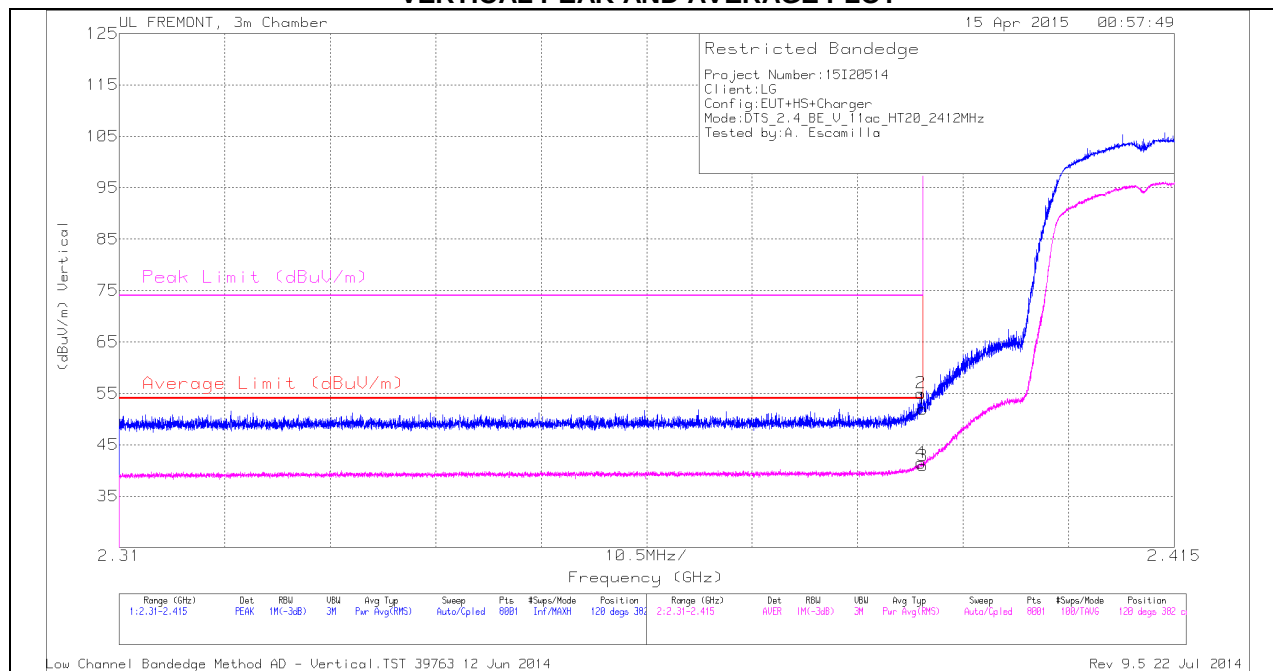
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

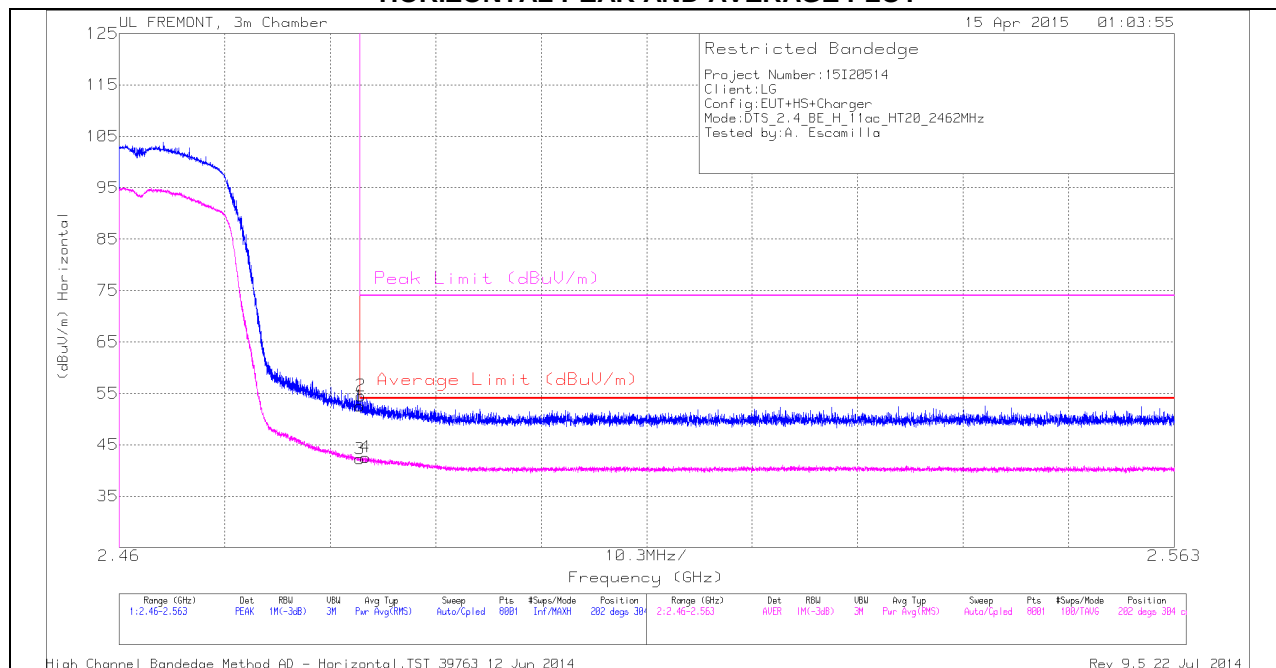
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	43.32	PK	32	-23.1	0	52.22	-	-	74	-21.78	196	372	H
2	2.39	44.37	PK	32	-23.1	0	53.27	-	-	74	-20.73	196	372	H
3	2.39	31.83	RMS	32	-23.1	.23	40.96	54	-13.04	-	-	196	372	H
4	2.39	32.2	RMS	32	-23.1	.23	41.33	54	-12.67	-	-	196	372	H

VERTICAL PEAK AND AVERAGE PLOT



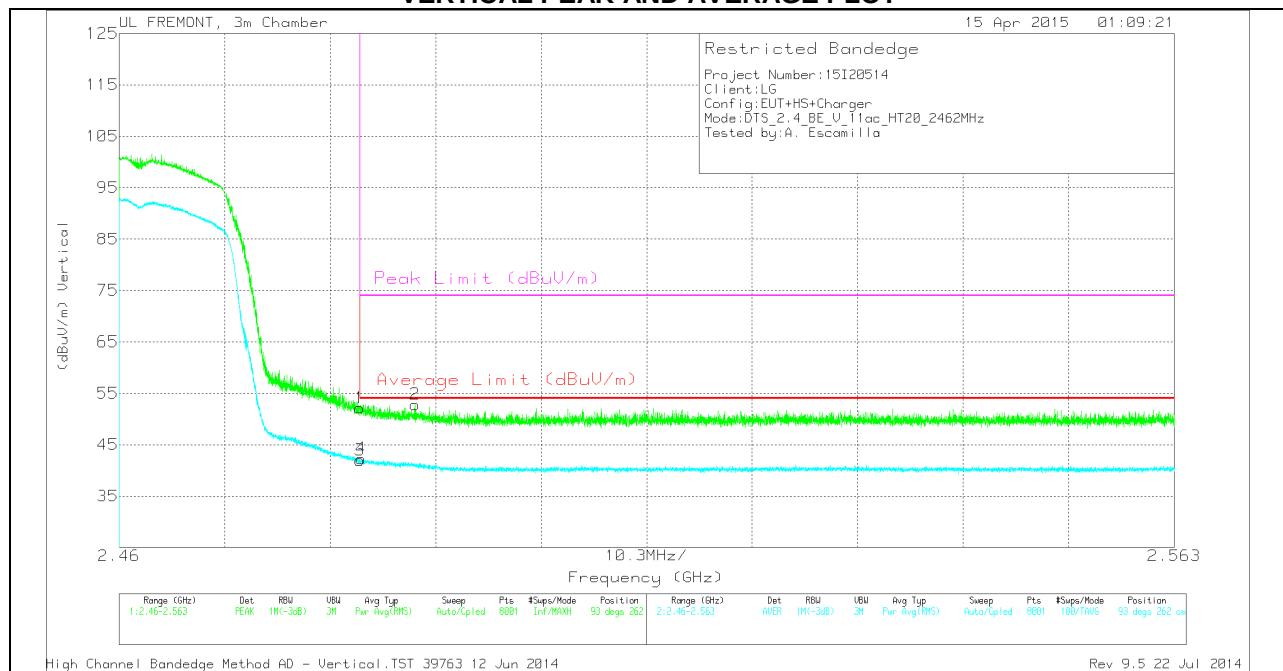
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/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	2.39	43.07	PK	32	-23.1	51.97	-	-	74	-22.03	120	382	V
2	2.39	46.13	PK	32	-23.1	55.03	-	-	74	-18.97	120	382	V
3	2.39	32.03	RMS	32	-23.1	40.93	54	-13.07	-	-	120	382	V
4	2.39	32.58	RMS	32	-23.1	41.48	54	-12.52	-	-	120	382	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)**HORIZONTAL PEAK AND AVERAGE PLOT****HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	43	PK	32.3	-22.8	0	52.5	-	-	74	-21.5	202	304	H
2	2.484	45.03	PK	32.3	-22.8	0	54.53	-	-	74	-19.47	202	304	H
3	2.484	32.51	RMS	32.3	-22.8	.23	42.24	54	-11.76	-	-	202	304	H
4	2.484	32.84	RMS	32.3	-22.8	.23	42.57	54	-11.43	-	-	202	304	H

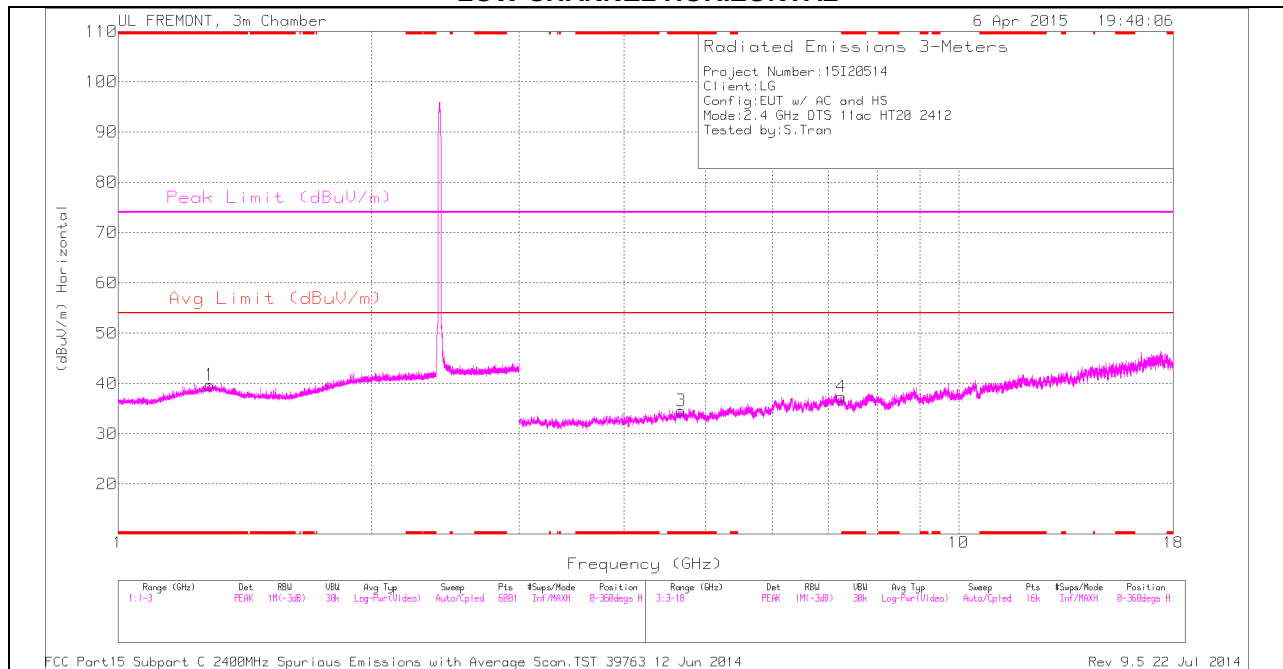
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

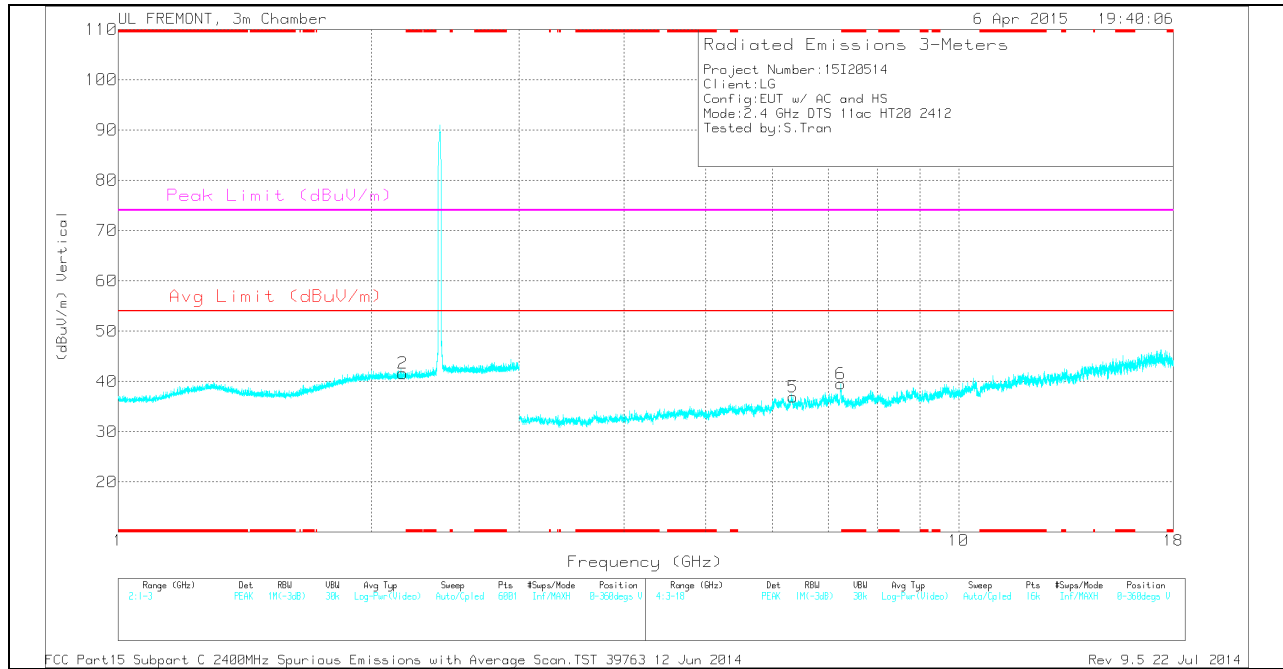
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/CBI/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	42.67	PK	32.3	-22.8	0	52.17	-	-	74	-21.83	93	262	V
3	2.484	32.25	RMS	32.3	-22.8	.23	41.98	54	-12.02	-	-	93	262	V
4	2.484	32.56	RMS	32.3	-22.8	.23	42.29	54	-11.71	-	-	93	262	V
2	2.489	43.33	PK	32.3	-22.8	0	52.83	-	-	74	-21.17	93	262	V

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**

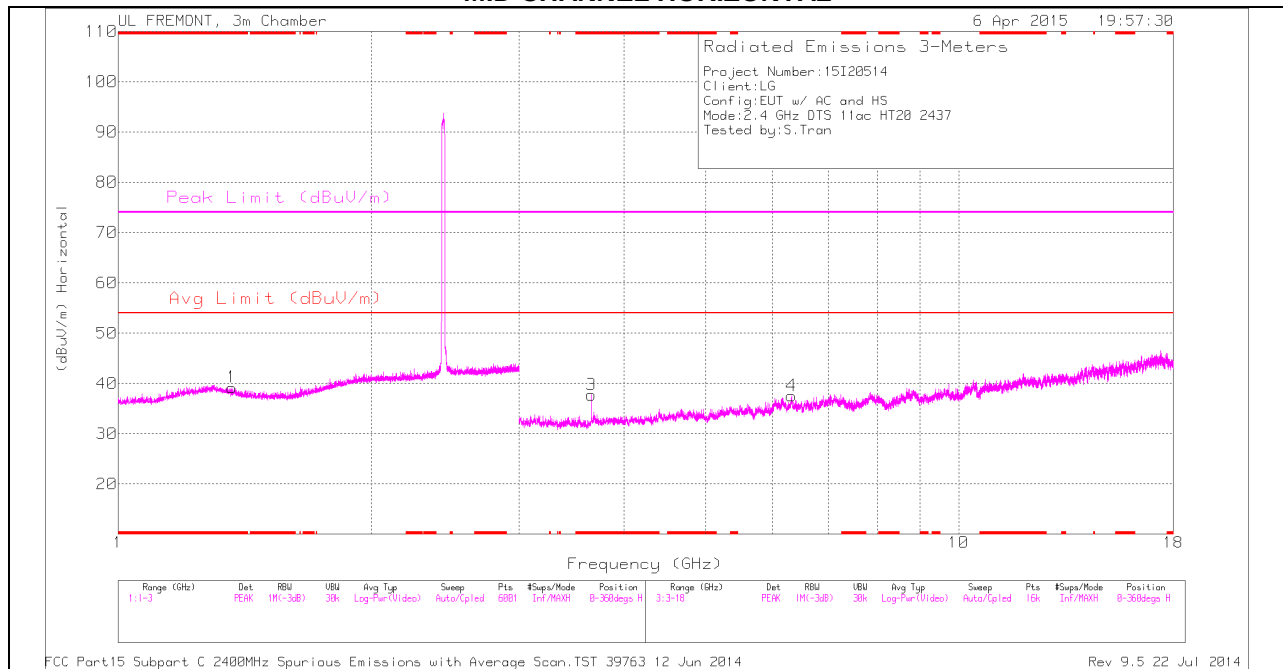
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.286	33.59	PK	29.8	-23.7	0	39.69	-	-	74	-34.31	0-360	100	H
3	* 4.673	31.27	PK	34	-30.7	0	34.57	-	-	74	-39.43	0-360	200	H
2	2.18	33.21	PK	31.4	-23	0	41.61	-	-	-	-	0-360	100	V
5	6.35	30.51	PK	35.5	-29.1	0	36.91	-	-	-	-	0-360	200	V
6	7.24	33.64	PK	35.6	-29.7	0	39.54	-	-	-	-	0-360	200	V
4	7.248	31.4	PK	35.6	-29.6	0	37.4	-	-	-	-	0-360	200	H

PK - Peak detector

RADIATED EMISSIONS

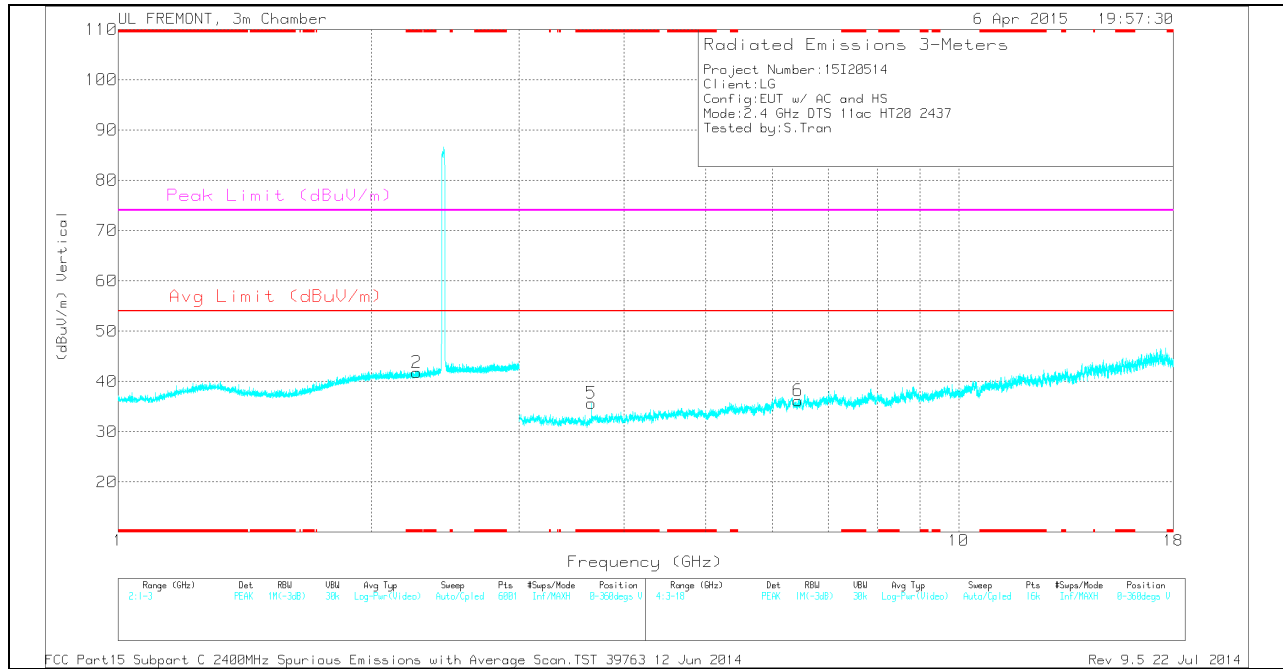
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.675	29.22	MAv1	34	-30.7	.23	32.75	54	-21.25	-	-	0	200	H

MID CHANNEL HORIZONTAL



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

MID CHANNEL VERTICAL



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

MID CHANNEL DATA**TRACE MARKERS**

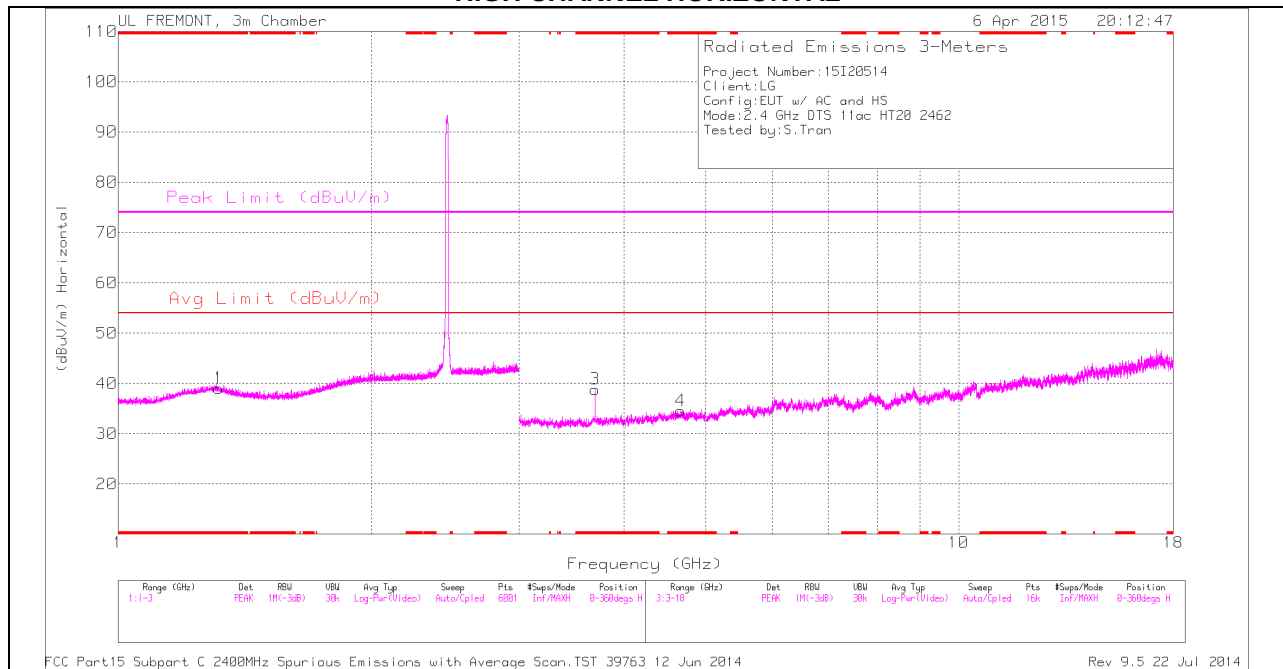
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.367	34.01	PK	29	-23.8	0	39.21	-	-	74	-34.79	0-360	100	H
2	* 2.265	33.3	PK	31.5	-23	0	41.8	-	-	74	-32.2	0-360	200	V
3	* 3.655	36.04	PK	32.9	-31.2	0	37.74	-	-	74	-36.26	0-360	100	H
5	* 3.655	33.99	PK	32.9	-31.2	0	35.69	-	-	74	-38.31	0-360	200	V
4	6.325	31.35	PK	35.4	-29.2	0	37.55	-	-	-	-	0-360	200	H
6	6.442	30.8	PK	35.5	-30.1	0	36.2	-	-	-	-	0-360	200	V

PK - Peak detector

RADIATED EMISSIONS

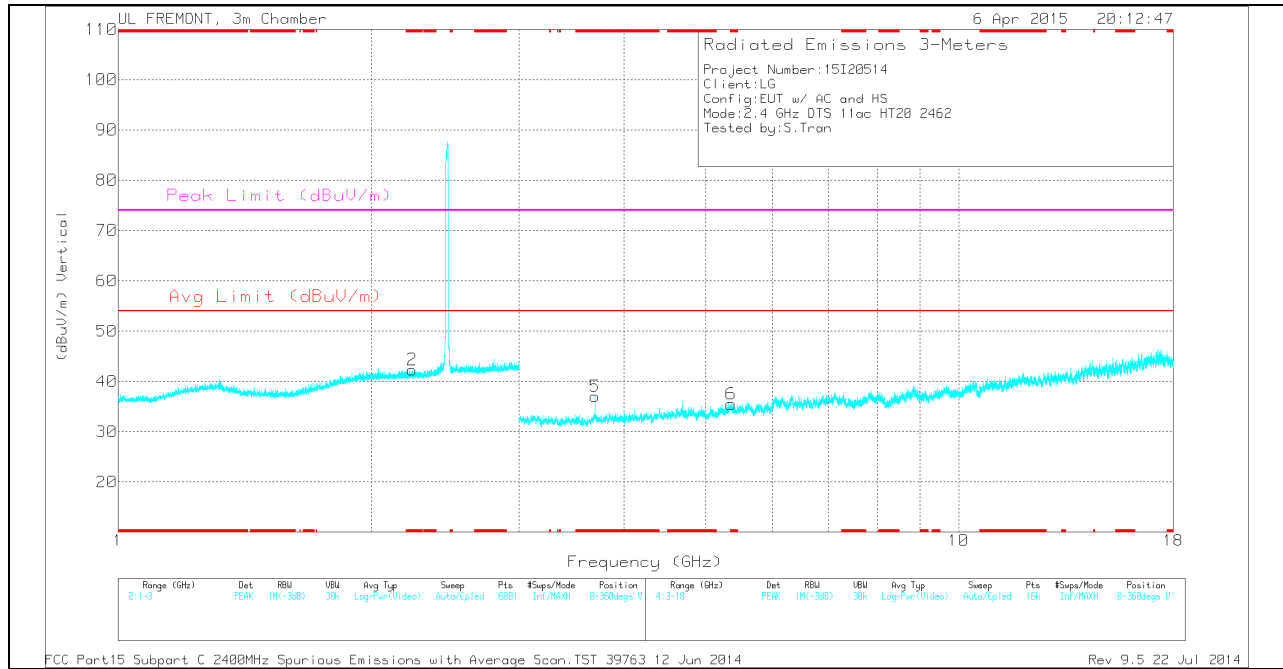
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.655	35.43	MAV1	32.9	-31.2	.23	37.36	54	-16.64	-	-	63	201	H

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
1	* 1.318	33.15	PK	29.7	-23.8	0	39.05	-	-	74	-34.95	0-360	200	H
2	* 2.239	33.81	PK	31.5	-23	0	42.31	-	-	74	-31.69	0-360	100	V
3	* 3.693	36.64	PK	33	-30.8	0	38.84	-	-	74	-35.16	0-360	200	H
4	* 4.67	31.25	PK	34	-30.7	0	34.55	-	-	74	-39.45	0-360	100	H
5	* 3.693	34.83	PK	33	-30.8	0	37.03	-	-	74	-36.97	0-360	200	V
6	* 5.362	31.09	PK	34.5	-30.1	0	35.49	-	-	74	-38.51	0-360	100	V

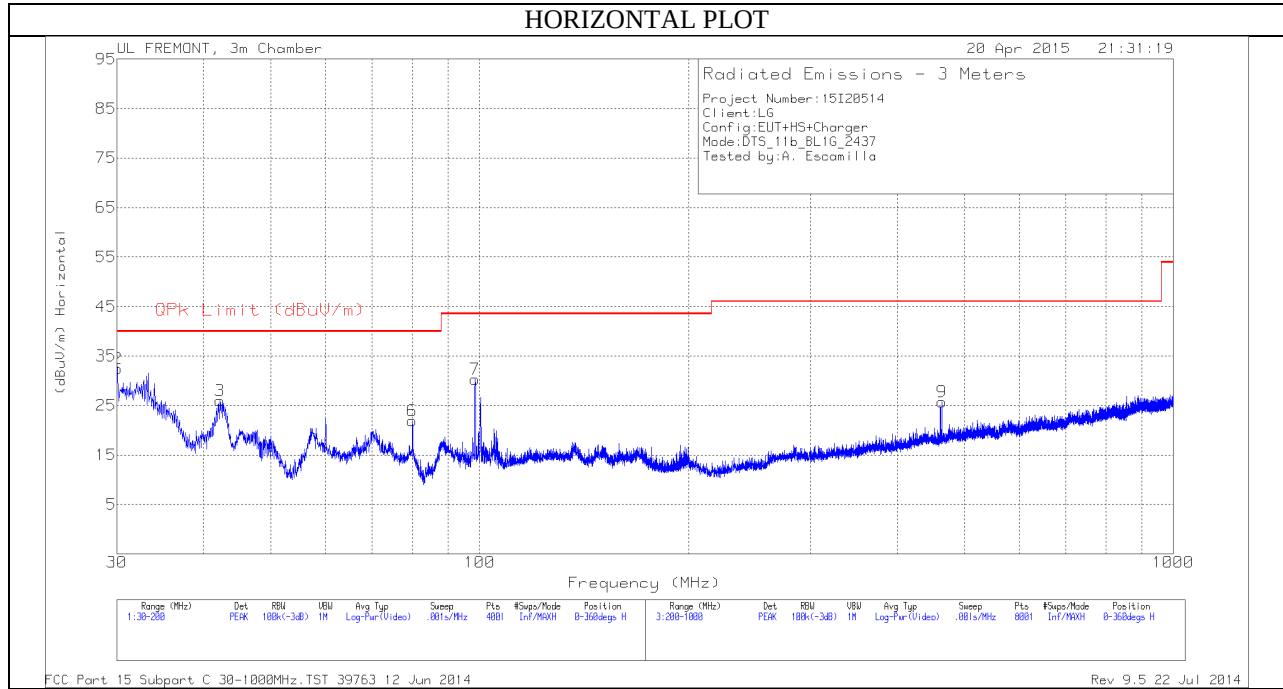
PK - Peak detector

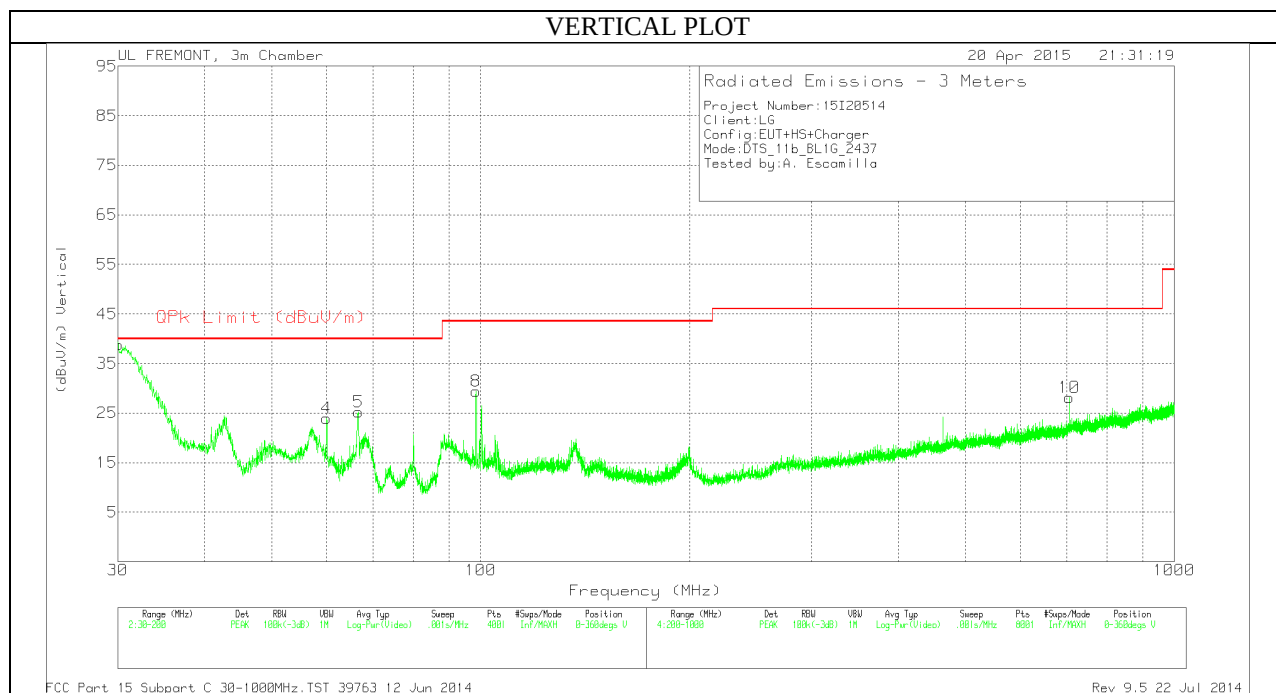
RADIATED EMISSIONS

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
* 3.693	36.55	MAV1	33	-30.8	.23	38.98	54	-15.02	-	-	83	200	H

9.3. TRANSMITTER BELOW 1 GHz

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





Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T185 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	30.0425	38.1	PK	21.8	-27.5	32.4	40	-7.6	0-360	100	H
1	30.0425	44.53	PK	21.8	-27.5	38.83	40	-1.17	0-360	100	V
3	42.1975	40.78	PK	12.6	-27.4	25.98	40	-14.02	0-360	300	H
4	60.005	43.72	PK	7.3	-27.1	23.92	40	-16.08	0-360	100	V
5	66.635	44.21	PK	8.1	-27.1	25.21	40	-14.79	0-360	100	V
6	80.0225	40.82	PK	8	-26.9	21.92	40	-18.08	0-360	100	H
7	98.51	47.74	PK	9.4	-26.8	30.34	43.52	-13.18	0-360	300	H
8	98.51	46.77	PK	9.4	-26.8	29.37	43.52	-14.15	0-360	100	V
9	463.8	34.92	PK	16.6	-25.8	25.72	46.02	-20.3	0-360	100	H
10	705.5	33.28	PK	20.1	-25.2	28.18	46.02	-17.84	0-360	200	V