



FCC 47 CFR PART 15 SUBPART C

C2PC CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS b/g/n

MODEL NUMBER: LG-US550, LGUS550, US550

FCC ID: ZNFUS550

REPORT NUMBER: 15119900-E2

ISSUE DATE: MARCH 12, 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.	Date	Revisions	Revised By
--	03/12/15	Initial Issue	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. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>5</i>
4.2. <i>SAMPLE CALCULATION</i>	<i>5</i>
4.3. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>6</i>
5. EQUIPMENT UNDER TEST	7
5.1. <i>DESCRIPTION OF EUT</i>	<i>7</i>
5.2. <i>MAXIMUM OUTPUT POWER.....</i>	<i>7</i>
5.3. <i>DESCRIPTION OF AVAILABLE ANTENNAS</i>	<i>7</i>
5.4. <i>WORST-CASE CONFIGURATION AND MODE.....</i>	<i>8</i>
5.5. <i>DESCRIPTION OF TEST SETUP.....</i>	<i>9</i>
6. TEST AND MEASUREMENT EQUIPMENT	11
7. SUMMARY TABLE	12
9. RADIATED TEST RESULTS.....	13
9.1. <i>LIMITS AND PROCEDURE.....</i>	<i>13</i>
9.2. <i>TRANSMITTER ABOVE 1 GHz.....</i>	<i>14</i>
9.2.1. <i>BASIC DATA RATE GFSK MODULATION</i>	<i>14</i>
1.1.1. <i>ENHANCED DATA RATE 8PSK MODULATION</i>	<i>27</i>
1.2. <i>WORST-CASE BELOW 1 GHz.....</i>	<i>40</i>
10. SETUP PHOTOS	43

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC
EUT DESCRIPTION: GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS b/g/n
MODEL: LG-US550, LGUS550, US550
SERIAL NUMBER: 80EFD1FD, 80049B33
DATE TESTED: FEBRUARY 19-23, 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:



STEVEN TRAN
CONSUMER TECHNOLOGY DIVISION
WISE LAB ENGINEER
UL VERIFICATION SERVICES INC

2. TEST METHODOLOGY

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

3. FACILITIES AND ACCREDITATION

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

47173 Benicia Street	47266 Benicia Street
<input type="checkbox"/> Chamber A(IC: 2324B-1)	<input type="checkbox"/> Chamber D(IC: 2324B-4)
<input checked="" type="checkbox"/> Chamber B(IC: 2324B-2)	<input type="checkbox"/> Chamber E(IC: 2324B-5)
<input type="checkbox"/> Chamber C(IC: 2324B-3)	<input type="checkbox"/> Chamber F(IC: 2324B-6)
	<input checked="" type="checkbox"/> Chamber G(IC: 2324B-7)
	<input type="checkbox"/> 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/WCDMA/LTE PHONE + BLUETOOTH, DTS b/g/n

5.2. MAXIMUM OUTPUT POWER

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

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -3.1dBi.

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.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-01WR	RD4X0891946	N/A
Earphone	LG	LG-US550	N/A	N/A

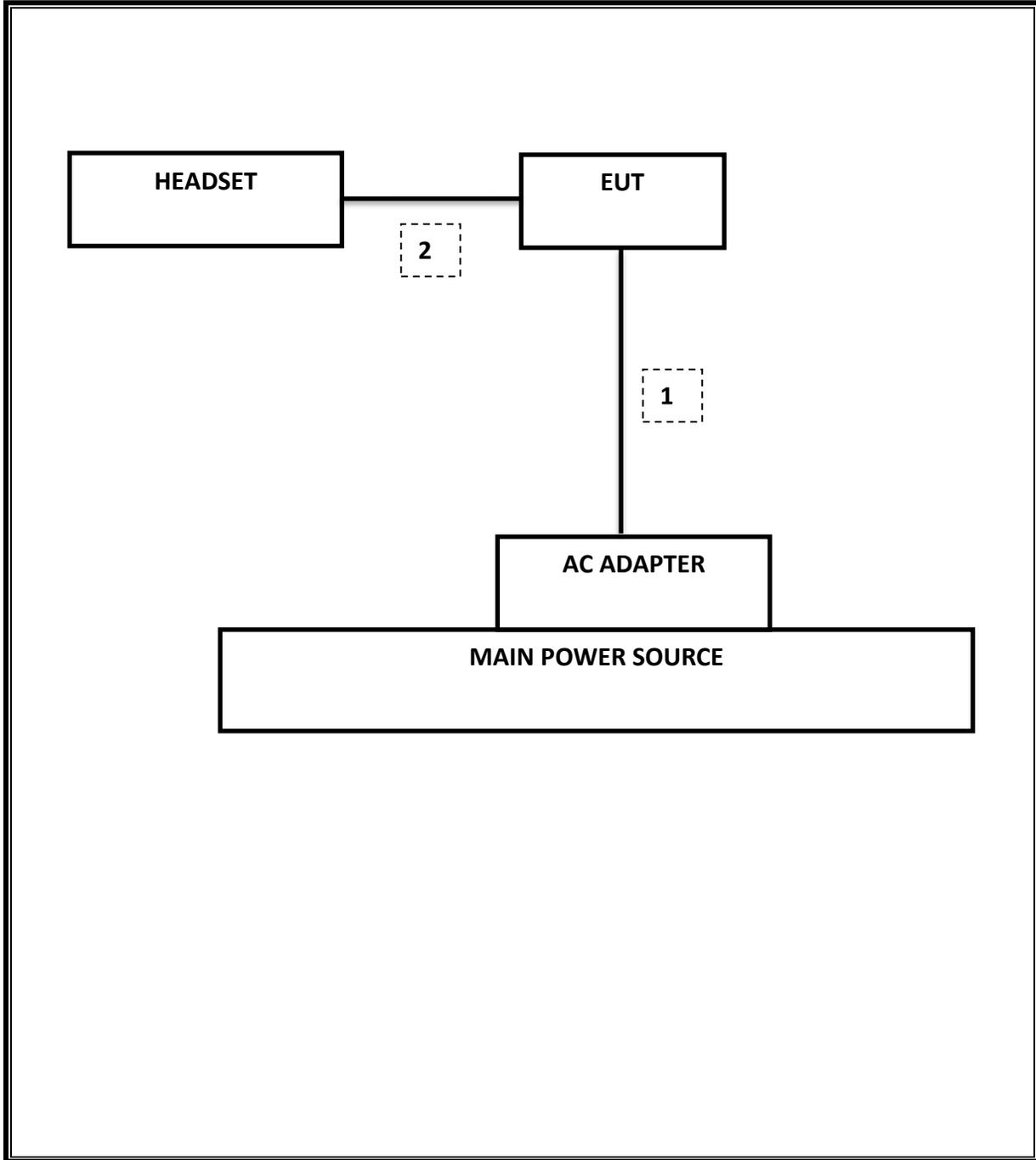
I/O CABLES

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 continuously communicating to the Bluetooth tester during the tests.
EUT was set in the Hidden menu mode to enable BT communications.

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
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	F00064	12/08/15
Antenna, Horn, 18 GHz	EMCO	3115	C00783	10/25/15
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/14/15
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	04/28/15
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	10/22/15
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/15
CBT Bluetooth Tester	R & S	CBT	None	07/12/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/16/16
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR

Test Equipment 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. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
2.1049	RSS-GEN 4.6	Occupied Band width (99%)	N/A	Conducted	Pass	See Original
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	See Original
15.247 (b)(1)	RSS-210 A8.4	TX conducted output power	<21dBm		Pass	See Original
15.247 (a)(1)	RSS-210 A8.1(b)	Hopping frequency separation	> 25KHz		Pass	See Original
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Number of Hopping channels	More than 15 non-overlapping channels		Pass	See Original
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Avg Time of Occupancy	< 0.4sec		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	39.85 dBuV/m

9. RADIATED TEST RESULTS

9.1. 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. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

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 band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 1/T (on time) for average measurement.
 $GFSK = 1/T = 1 / 0.0038S = 260Hz.$

The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

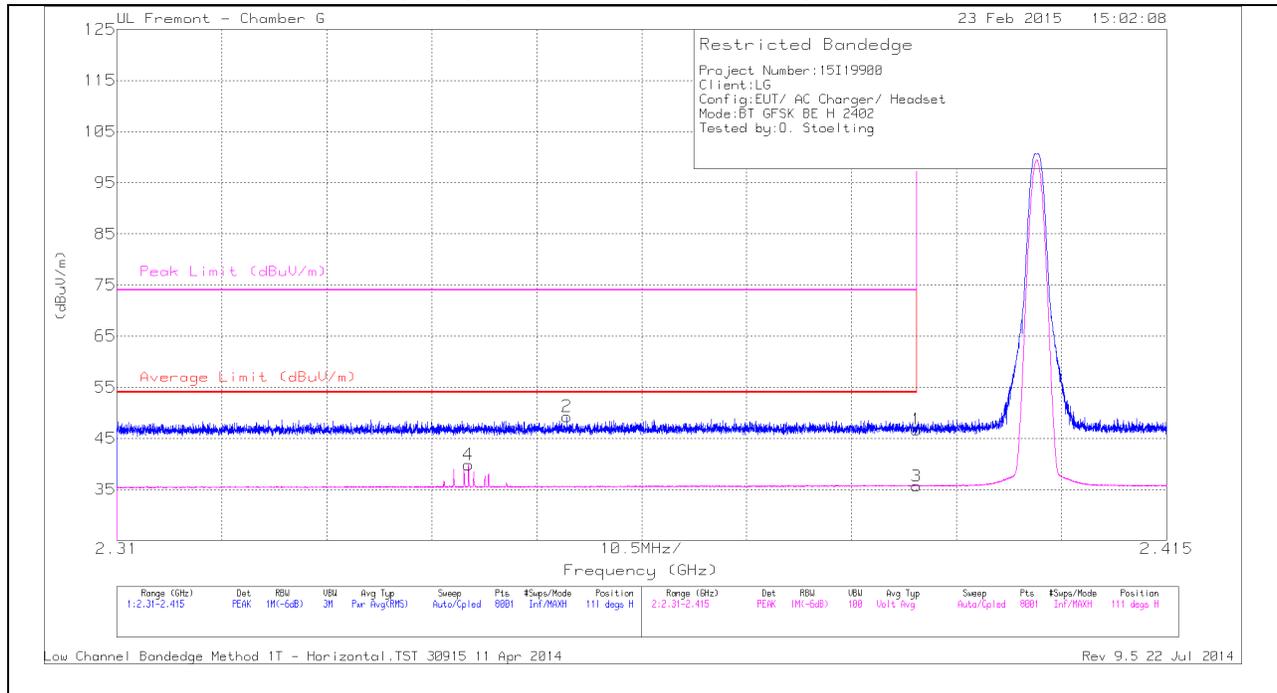
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL)

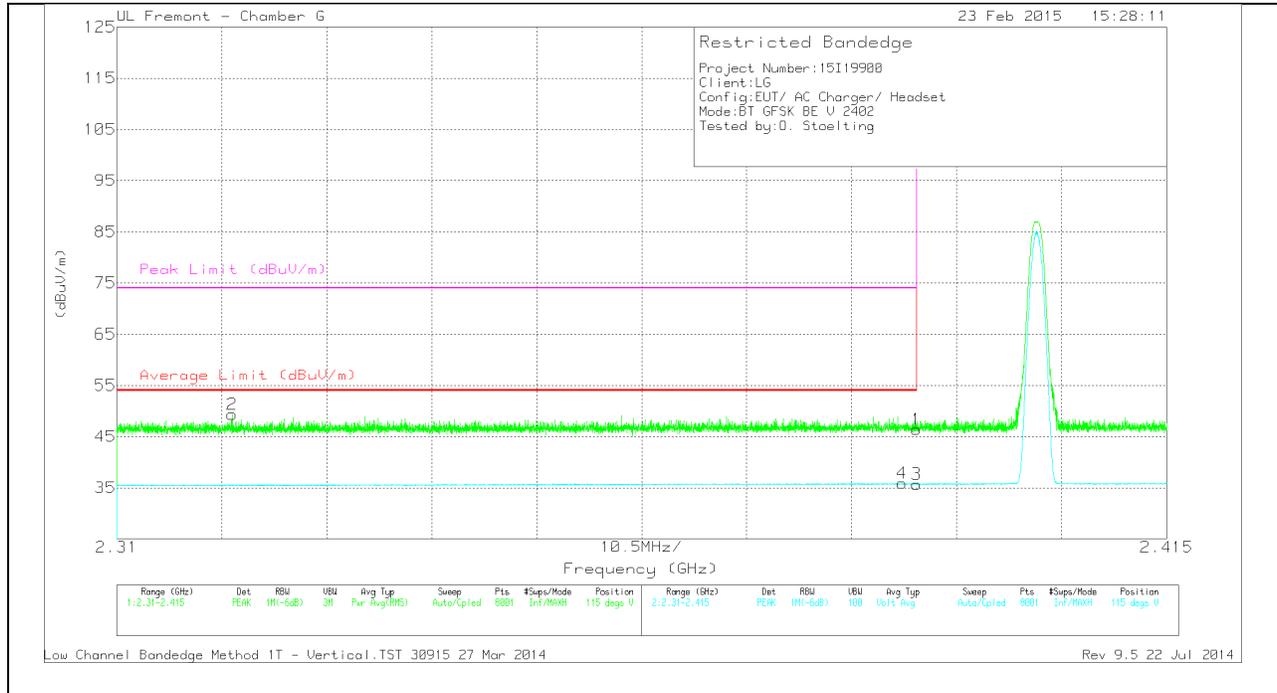
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.84	PK	31.8	-24.9	46.74	-	-	74	-27.26	111	108	H
2	* 2.355	42.57	PK	31.7	-25	49.27	-	-	74	-24.73	111	108	H
3	* 2.39	28.74	VB1T	31.8	-24.9	35.64	54	-18.36	-	-	111	108	H
4	* 2.345	33.15	VB1T	31.7	-25	39.85	54	-14.15	-	-	111	108	H

VERTICAL PEAK AND AVERAGE PLOT

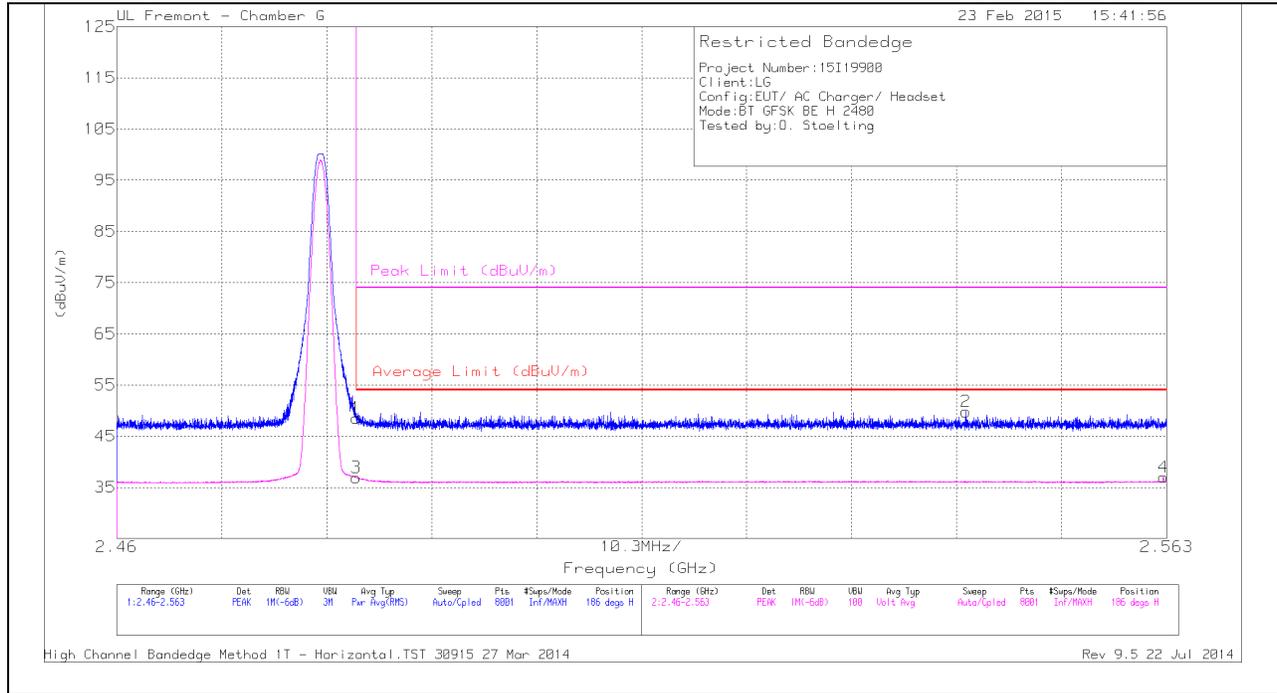


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.49	PK	31.8	-24.9	46.39	-	-	74	-27.61	115	142	V
2	* 2.322	42.75	PK	31.6	-25	49.35	-	-	74	-24.65	115	142	V
3	* 2.39	28.8	VB1T	31.8	-24.9	35.7	54	-18.3	-	-	115	142	V
4	* 2.389	28.99	VB1T	31.8	-24.9	35.89	54	-18.11	-	-	115	142	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

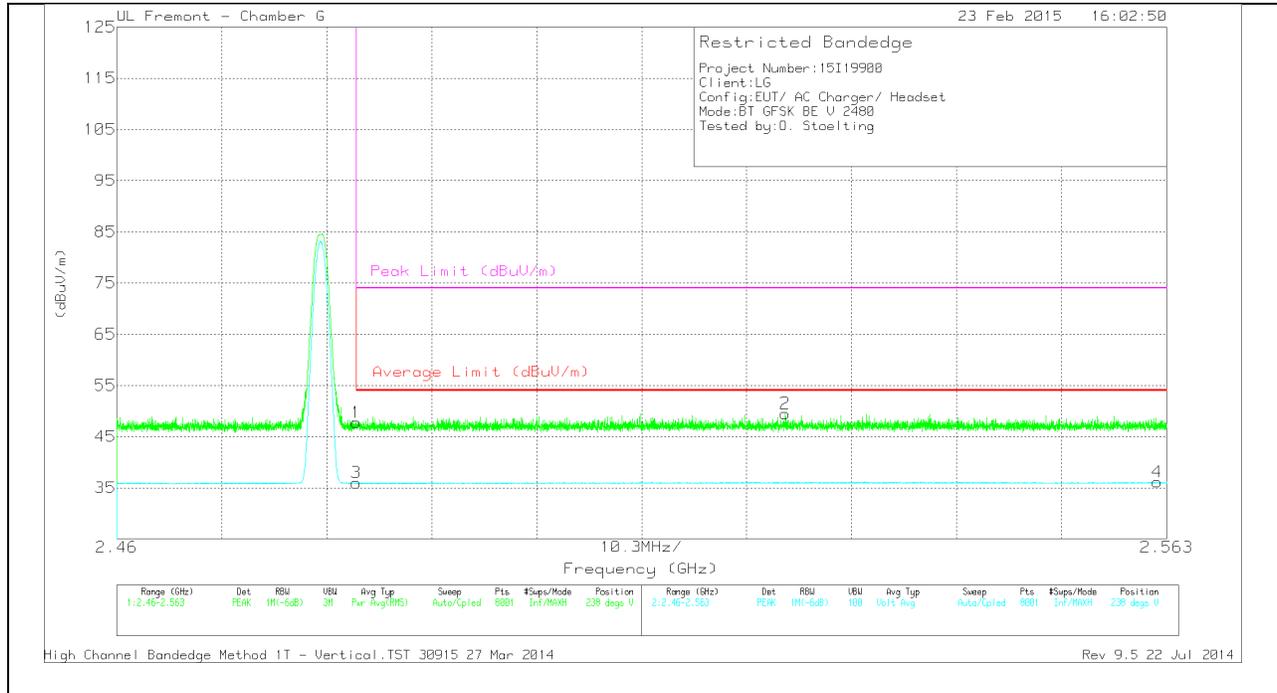
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.42	PK	32	-24.9	48.52	-	-	74	-25.48	186	179	H
3	* 2.484	29.83	VB1T	32	-24.9	36.93	54	-17.07	-	-	186	179	H
2	2.543	42.7	PK	32	-24.9	49.8	-	-	74	-24.2	186	179	H
4	2.563	29.79	VB1T	32.1	-24.9	36.99	54	-17.01	-	-	186	179	H

VERTICAL PEAK AND AVERAGE PLOT

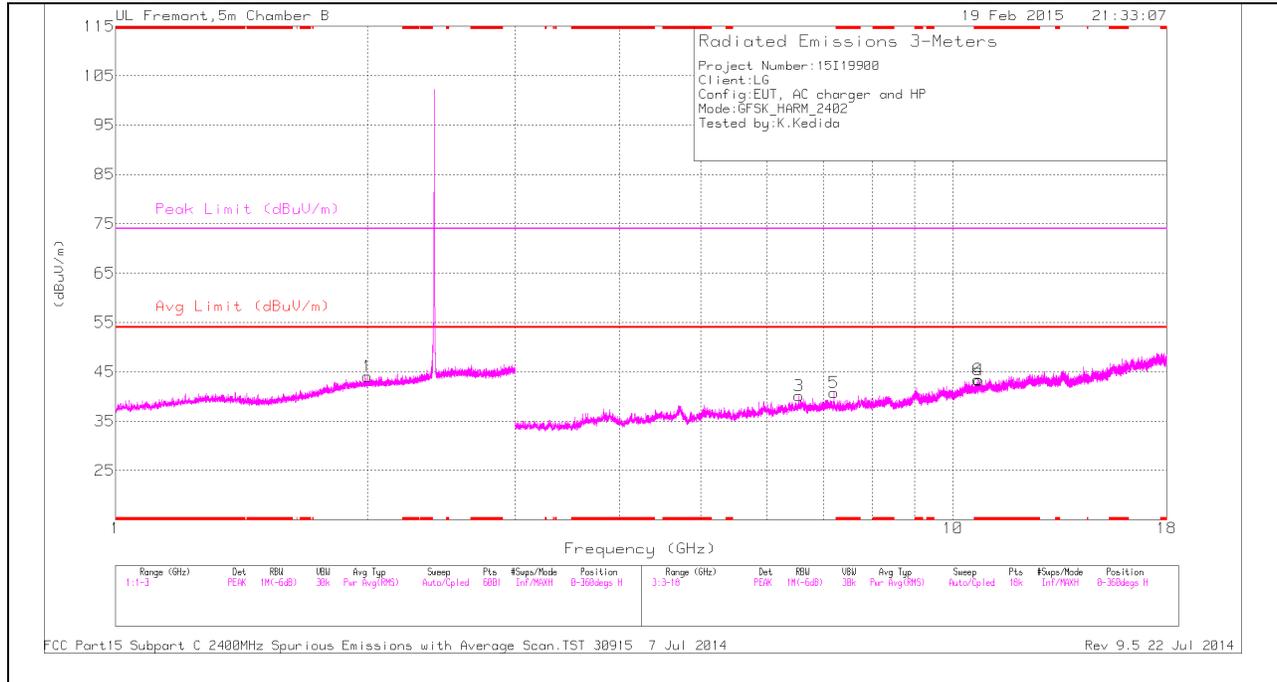


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.65	PK	32	-24.9	47.75	-	-	74	-26.25	238	108	V
3	* 2.484	28.89	VB1T	32	-24.9	35.99	54	-18.01	-	-	238	108	V
2	2.526	42.39	PK	32	-24.9	49.49	-	-	74	-24.51	238	108	V
4	2.562	29.05	VB1T	32	-24.9	36.15	54	-17.85	-	-	238	108	V

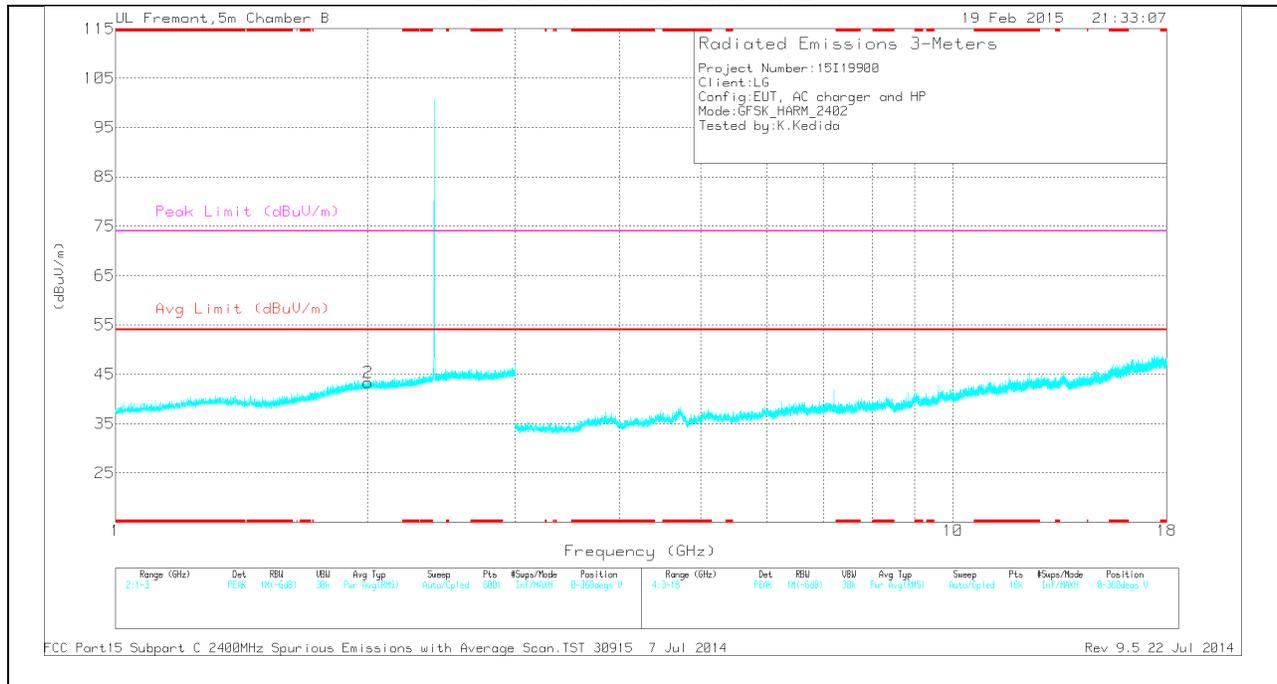
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

TRACE MARKERS

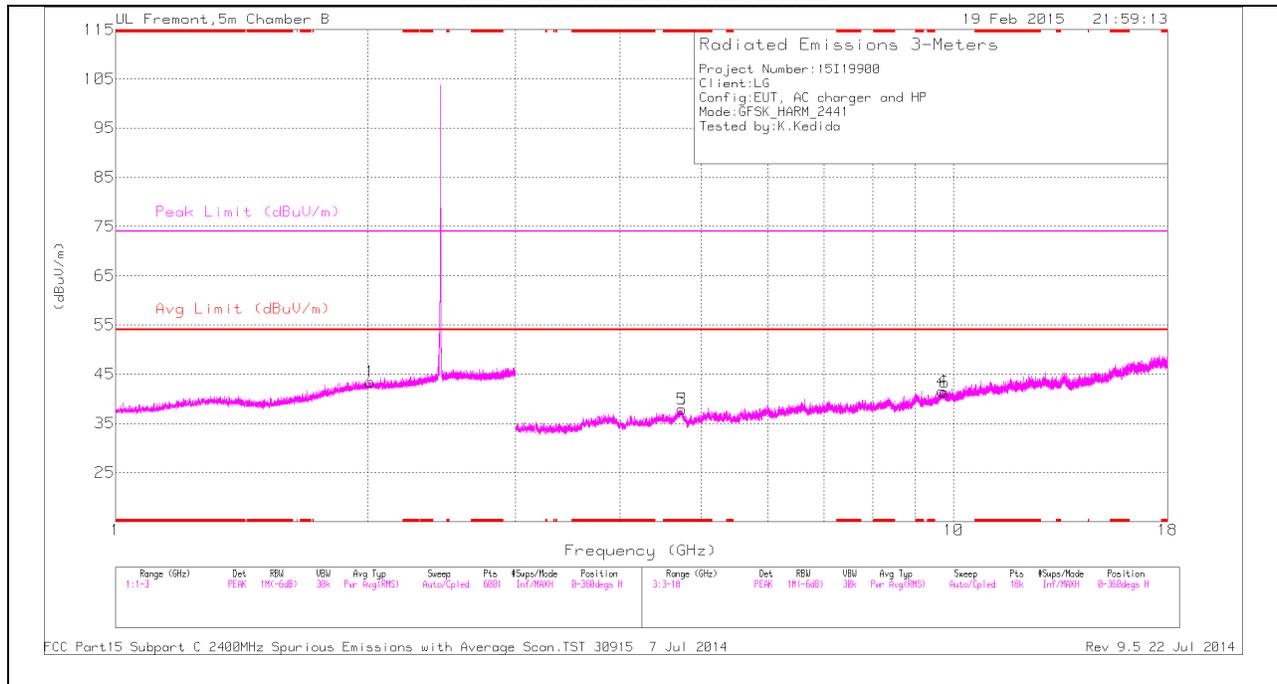
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 10.75	27.69	PK	37.8	-22.2	43.29	-	-	74	-30.71	0-360	101	H
6	* 10.705	28.33	PK	37.8	-22.7	43.43	-	-	74	-30.57	0-360	199	H
1	2	35.91	PK	31.4	-23.2	44.11	-	-	-	-	0-360	100	H
2	2.002	35.24	PK	31.3	-23.2	43.34	-	-	-	-	0-360	199	V
3	6.549	32.62	PK	35.7	-28.2	40.12	-	-	-	-	0-360	199	H
5	7.206	32.49	PK	35.5	-27.2	40.79	-	-	-	-	0-360	199	H

PK - Peak detector

RADIATED EMISSIONS

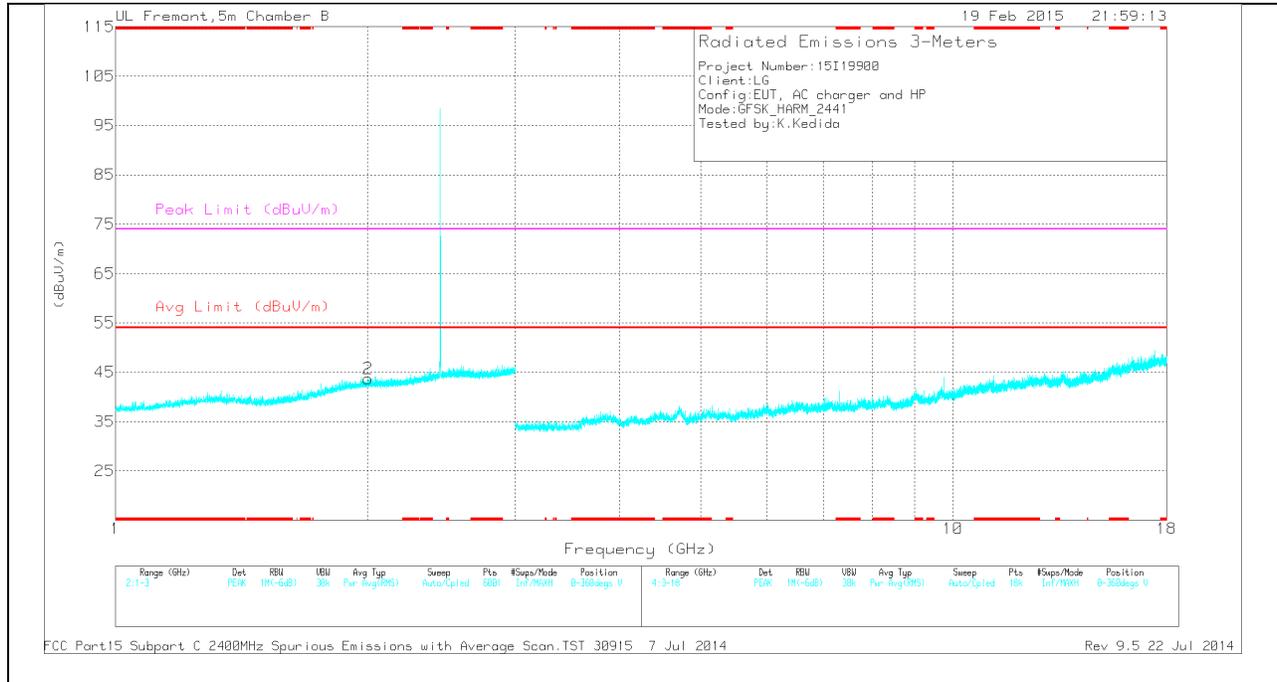
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 10.75	34.79	PK3	37.8	-22.2	50.39	-	-	74	-23.61	2	100	H
* 10.749	22.3	VB1T	37.8	-22.2	37.9	54	-16.1	-	-	2	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

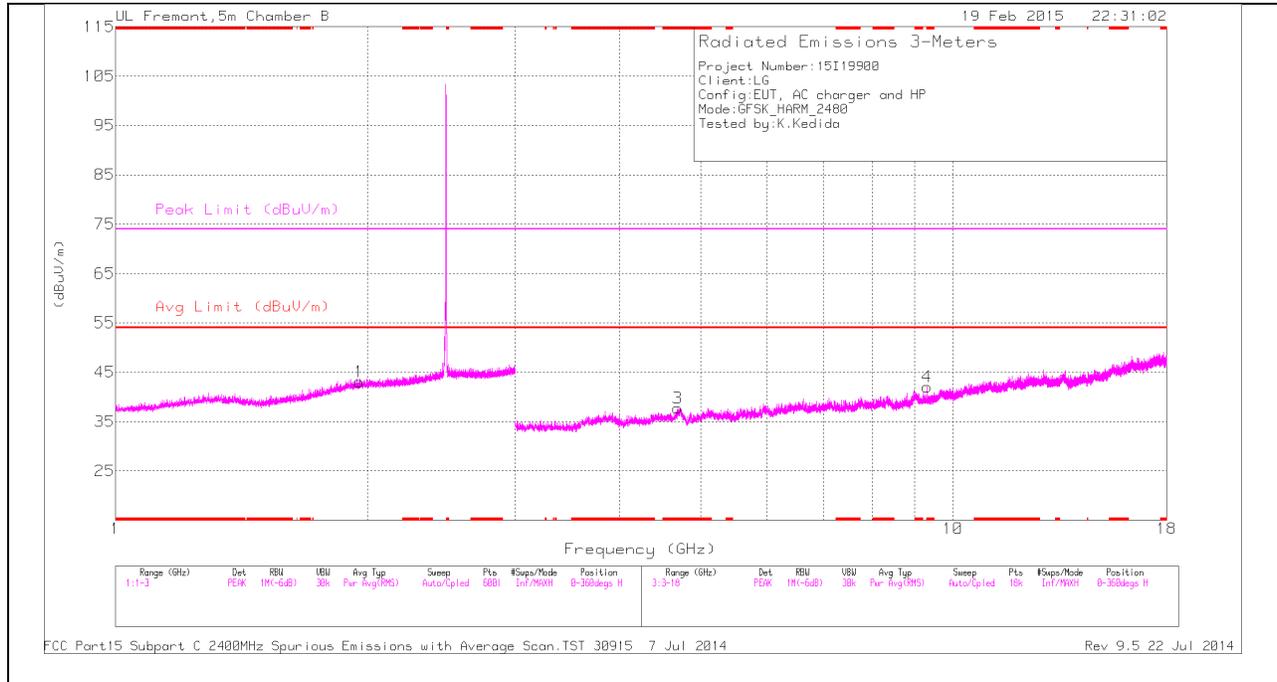
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.737	32.77	PK	34.2	-29.1	37.87	-	-	74	-36.13	0-360	199	H
5	* 4.737	32.77	PK	34.2	-29.1	37.87	-	-	74	-36.13	0-360	199	H
2	2.001	35.47	PK	31.4	-23.2	43.67	-	-	-	-	0-360	101	V
1	2.012	35.33	PK	31.3	-23.2	43.43	-	-	-	-	0-360	199	H
4	9.691	28.27	PK	36.9	-23.6	41.57	-	-	-	-	0-360	101	H
6	9.764	28.42	PK	36.9	-24	41.32	-	-	-	-	0-360	199	H

PK - Peak detector

RADIATED EMISSIONS

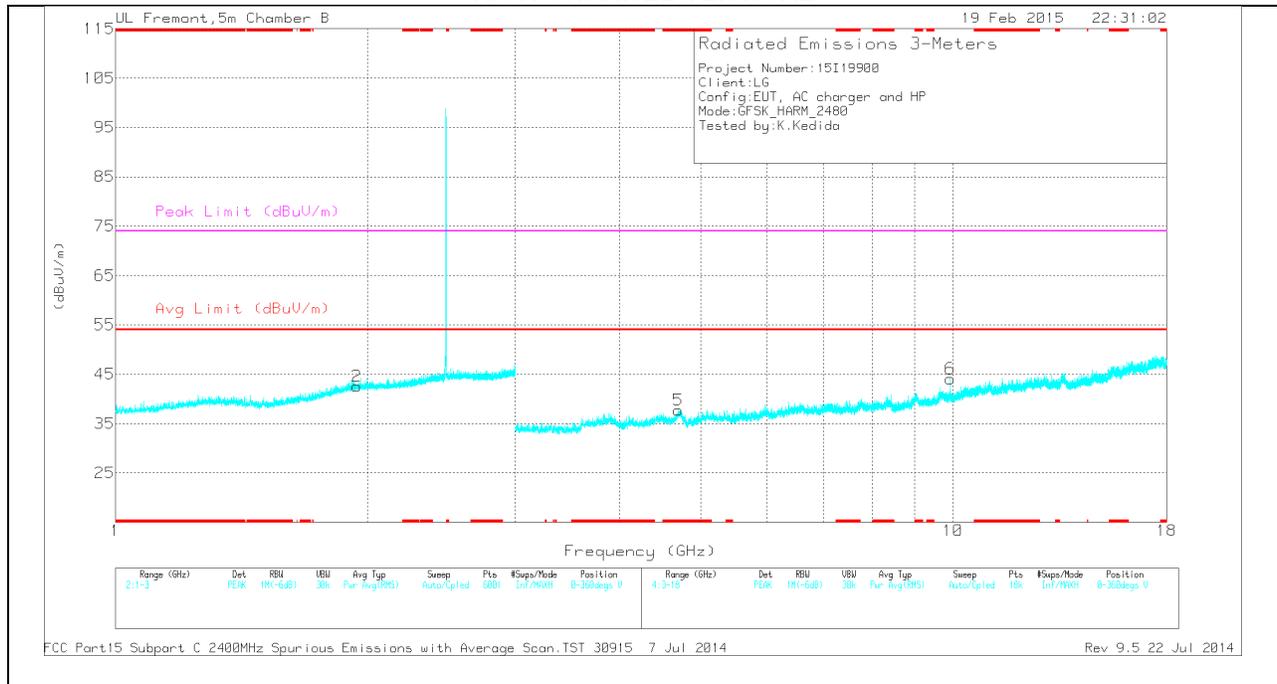
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.735	40.8	PK3	34.2	-29.1	45.9	-	-	74	-28.1	1	199	H
* 4.736	28.23	VB1T	34.2	-29.1	33.33	54	-20.67	-	-	1	199	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 T345 (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
3	* 4.687	33.22	PK	34.2	-29.7	37.72	-	-	74	-36.28	0-360	199	H
4	* 9.322	30.27	PK	36.4	-24.6	42.07	-	-	74	-31.93	0-360	101	H
5	* 4.702	32.93	PK	34.2	-29.4	37.73	-	-	74	-36.27	0-360	199	V
2	1.941	34.6	PK	31.2	-23.2	42.6	-	-	-	-	0-360	101	V
1	1.954	35.04	PK	31.2	-23.2	43.04	-	-	-	-	0-360	200	H
6	9.92	30.66	PK	37	-23.6	44.06	-	-	-	-	0-360	199	V

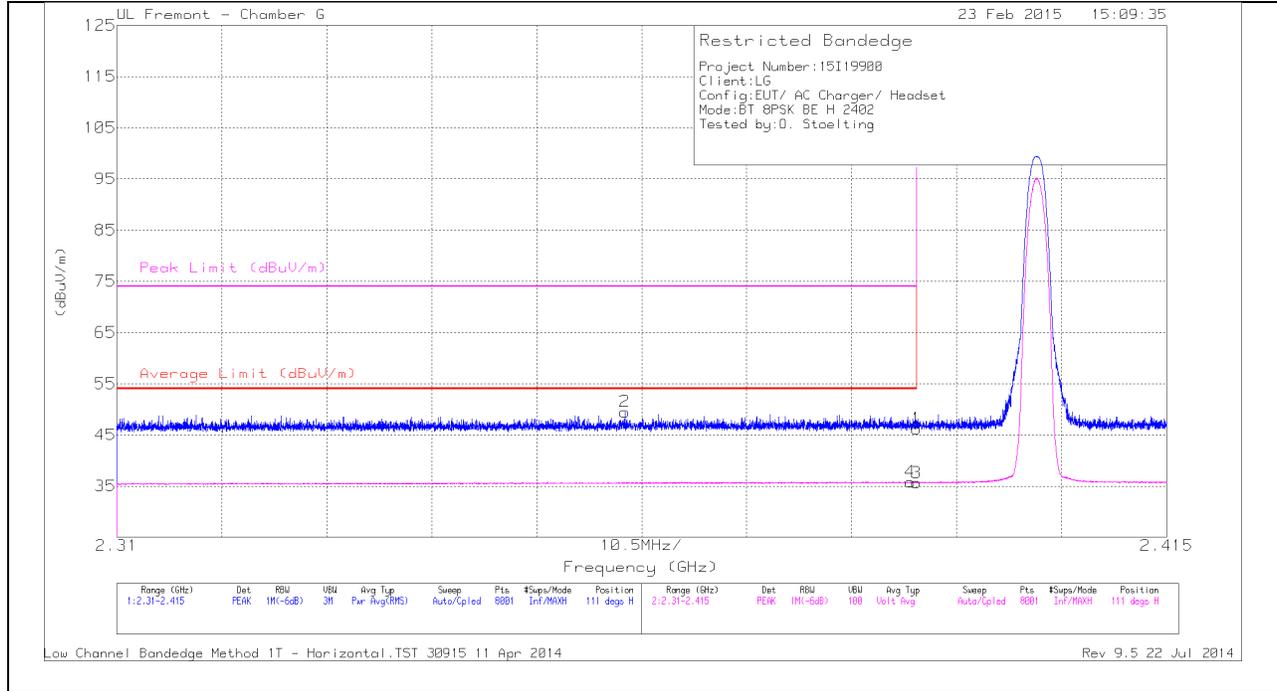
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 4.689	41.29	PK3	34.2	-29.7	45.79	-	-	74	-28.21	1	200	H
* 4.689	28.49	VB1T	34.2	-29.7	32.99	54	-21.01	-	-	1	200	H

1.1.1. ENHANCED DATA RATE 8PSK MODULATION RESTRICTED BANDEDGE (LOW CHANNEL)

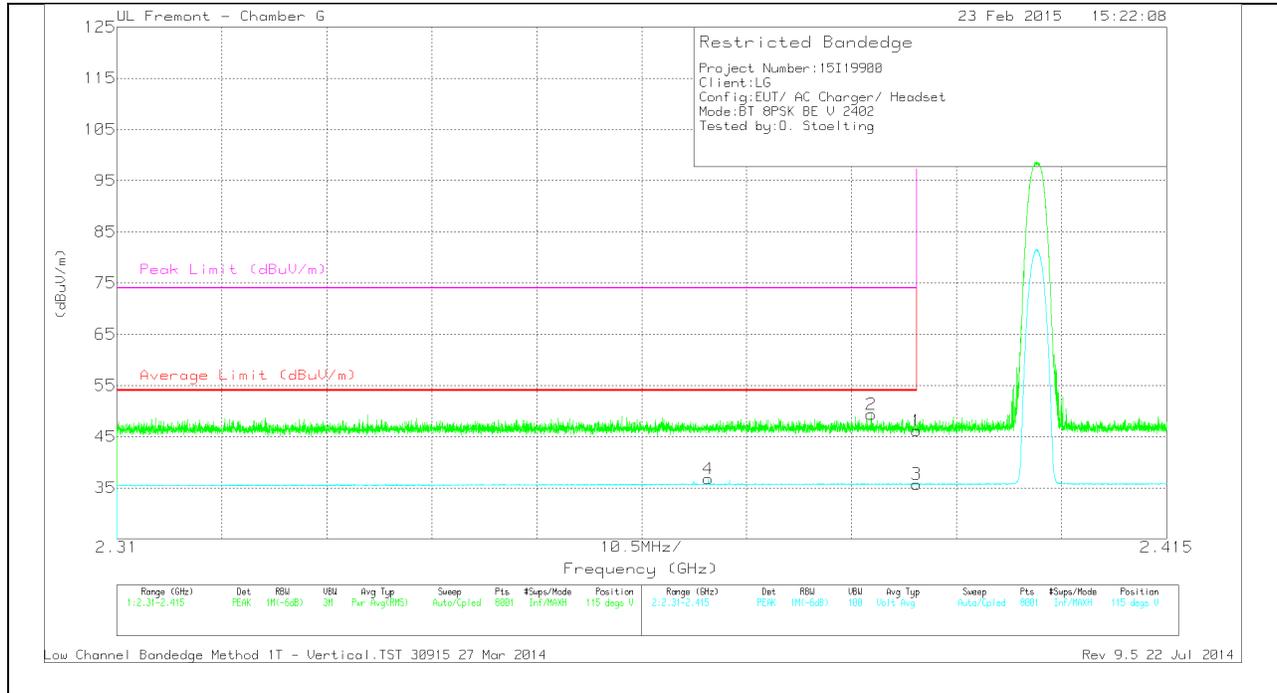
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.32	PK	31.8	-24.9	46.22	-	-	74	-27.78	111	108	H
2	* 2.361	42.83	PK	31.7	-25	49.53	-	-	74	-24.47	111	108	H
3	* 2.39	28.77	VB1T	31.8	-24.9	35.67	54	-18.33	-	-	111	108	H
4	* 2.389	28.91	VB1T	31.8	-24.9	35.81	54	-18.19	-	-	111	108	H

VERTICAL PEAK AND AVERAGE PLOT

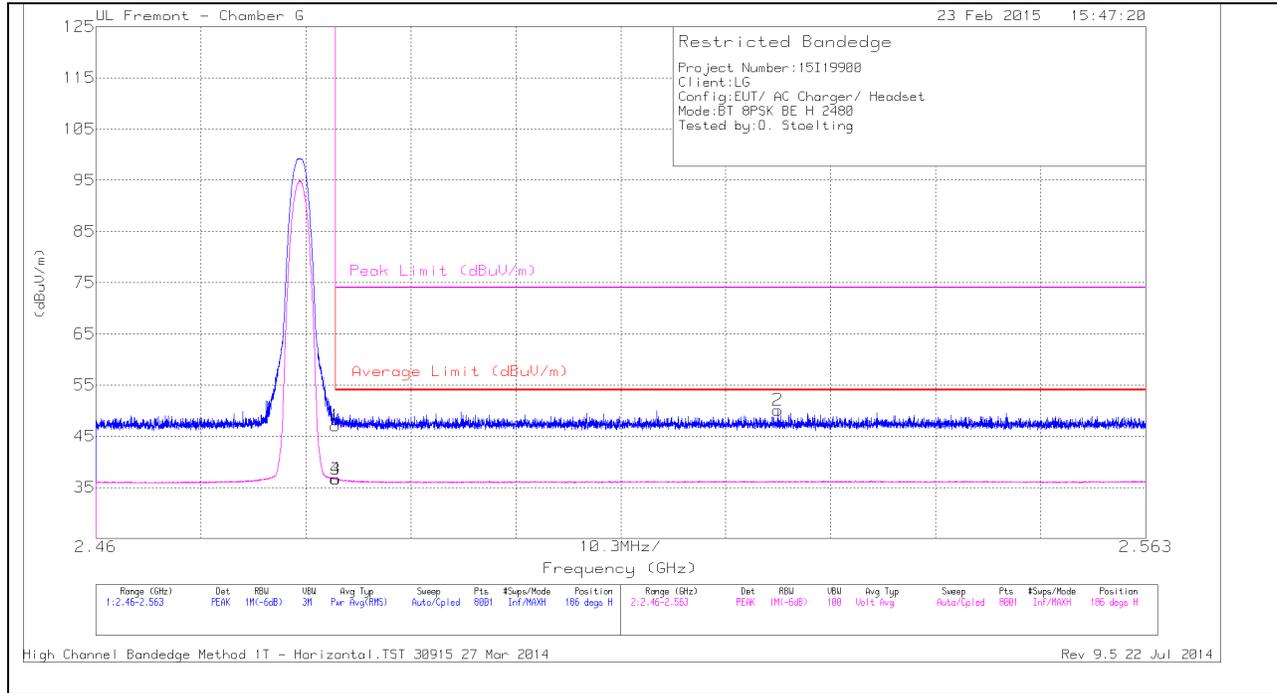


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.26	PK	31.8	-24.9	46.16	-	-	74	-27.84	115	142	V
2	* 2.385	42.46	PK	31.8	-24.9	49.36	-	-	74	-24.64	115	142	V
3	* 2.39	28.81	VB1T	31.8	-24.9	35.71	54	-18.29	-	-	115	142	V
4	* 2.369	29.96	VB1T	31.7	-24.9	36.76	54	-17.24	-	-	115	142	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

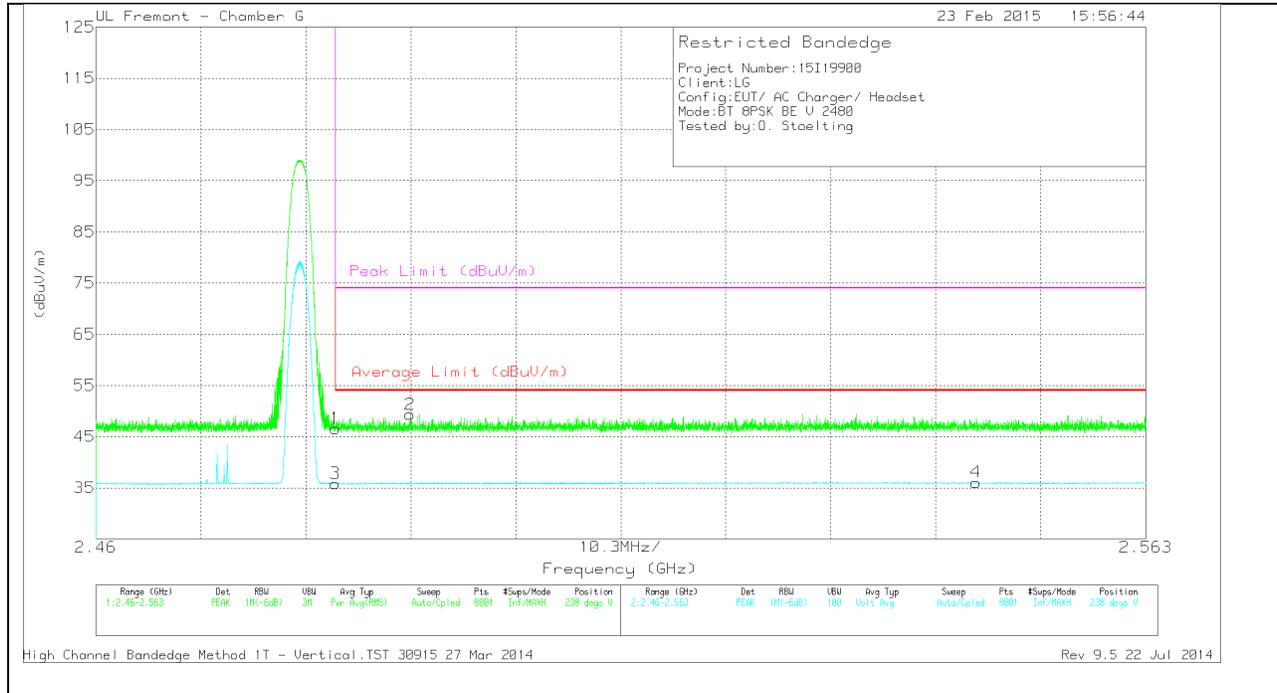
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.99	PK	32	-24.9	47.09	-	-	74	-26.91	186	179	H
3	* 2.484	29.53	VB1T	32	-24.9	36.63	54	-17.37	-	-	186	179	H
4	* 2.484	29.58	VB1T	32	-24.9	36.68	54	-17.32	-	-	186	179	H
2	2.527	43.01	PK	32	-24.9	50.11	-	-	74	-23.89	186	179	H

VERTICAL PEAK AND AVERAGE PLOT

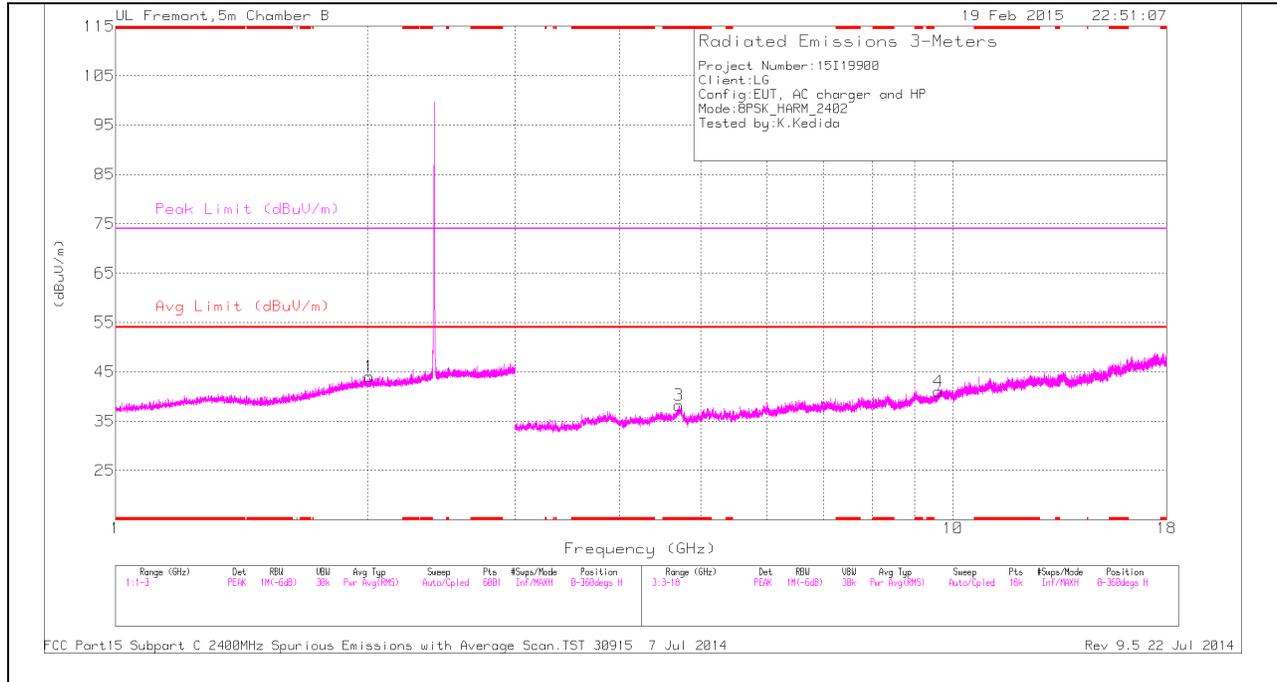


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.47	PK	32	-24.9	46.57	-	-	74	-27.43	238	108	V
2	* 2.491	42.22	PK	32	-24.9	49.32	-	-	74	-24.68	238	108	V
3	* 2.484	28.72	VB1T	32	-24.9	35.82	54	-18.18	-	-	238	108	V
4	2.546	28.99	VB1T	32	-24.9	36.09	54	-17.91	-	-	238	108	V

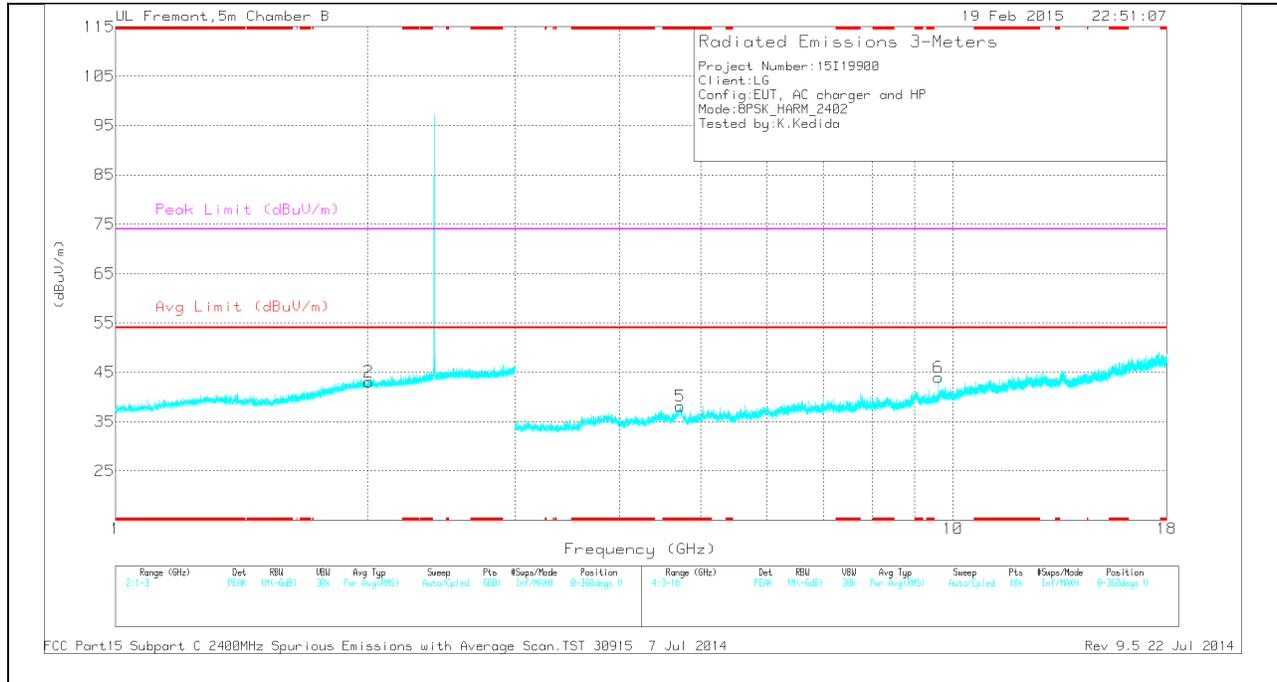
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

TRACE MARKERS

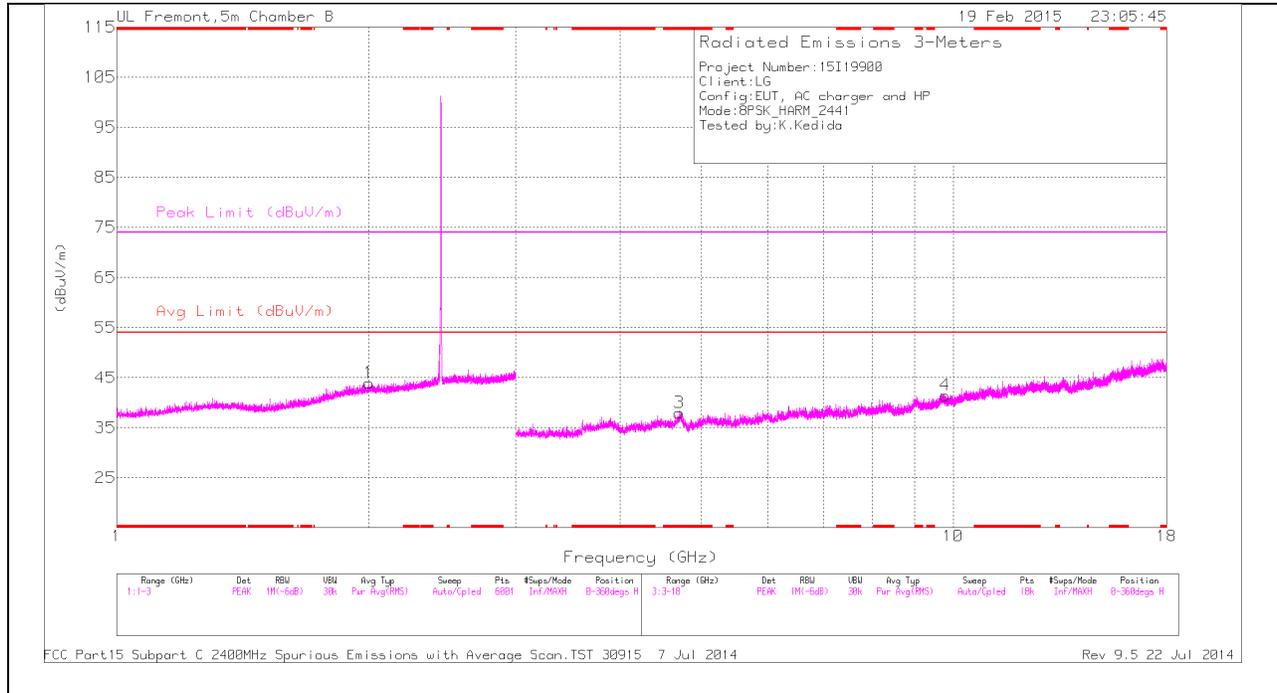
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.71	33.18	PK	34.2	-29.2	38.18	-	-	74	-35.82	0-360	199	H
5	* 4.723	33.04	PK	34.2	-29.1	38.14	-	-	74	-35.86	0-360	199	V
2	2.007	34.92	PK	31.3	-23.2	43.02	-	-	-	-	0-360	199	V
1	2.011	35.96	PK	31.3	-23.2	44.06	-	-	-	-	0-360	100	H
4	9.605	28.39	PK	36.8	-24.2	40.99	-	-	-	-	0-360	101	H
6	9.608	31.28	PK	36.8	-24.1	43.98	-	-	-	-	0-360	199	V

PK - Peak detector

RADIATED EMISSIONS

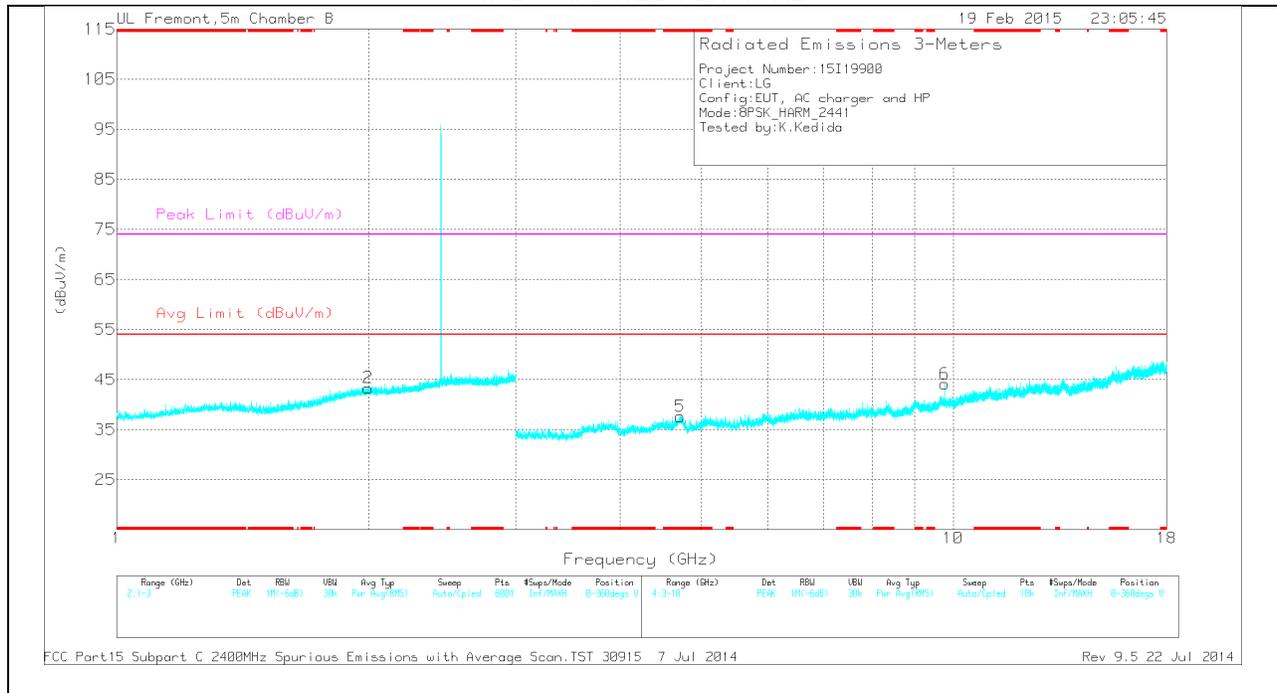
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.71	40.66	PK3	34.2	-29.2	45.66	-	-	74	-28.34	1	199	H
* 4.71	28.19	VB1T	34.2	-29.2	33.19	54	-20.81	-	-	1	199	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

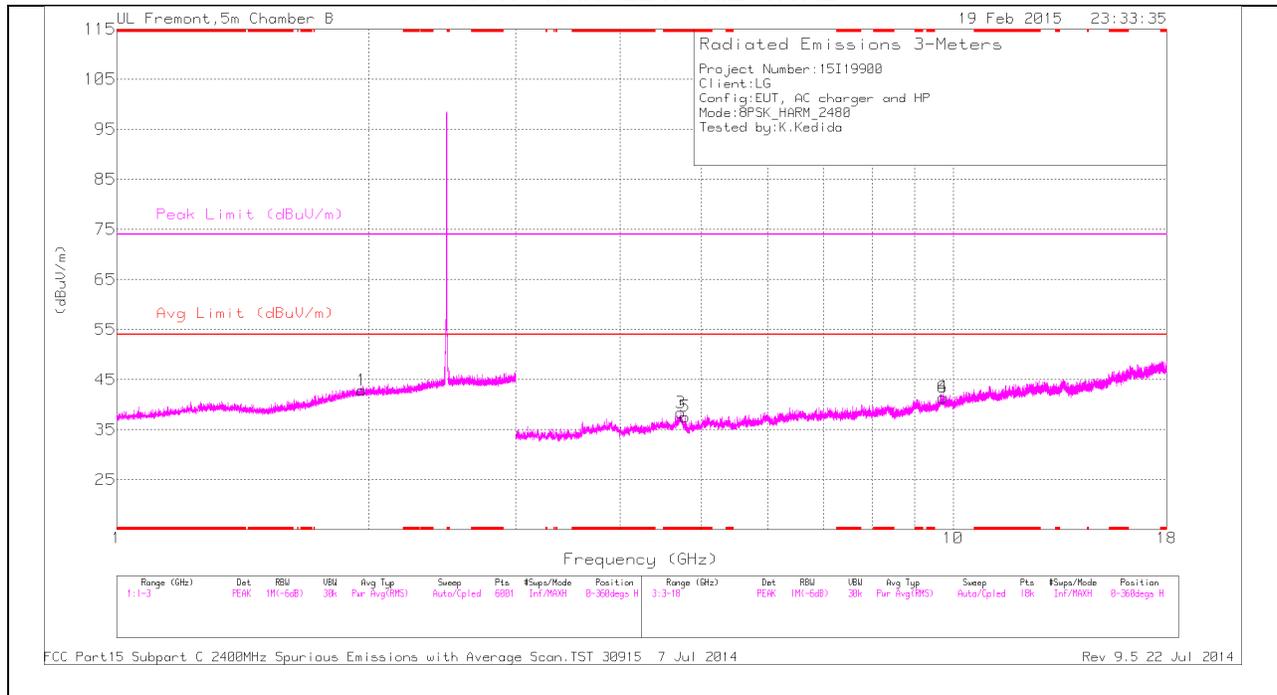
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.705	33.07	PK	34.2	-29.3	37.97	-	-	74	-36.03	0-360	101	H
5	* 4.717	32.51	PK	34.2	-29.1	37.61	-	-	74	-36.39	0-360	199	V
2	1.998	35.24	PK	31.3	-23.2	43.34	-	-	-	-	0-360	101	V
1	2.003	35.83	PK	31.3	-23.2	43.93	-	-	-	-	0-360	101	H
6	9.764	31.26	PK	36.9	-24	44.16	-	-	-	-	0-360	199	V
4	9.78	28.57	PK	36.9	-24	41.47	-	-	-	-	0-360	199	H

PK - Peak detector

RADIATED EMISSIONS

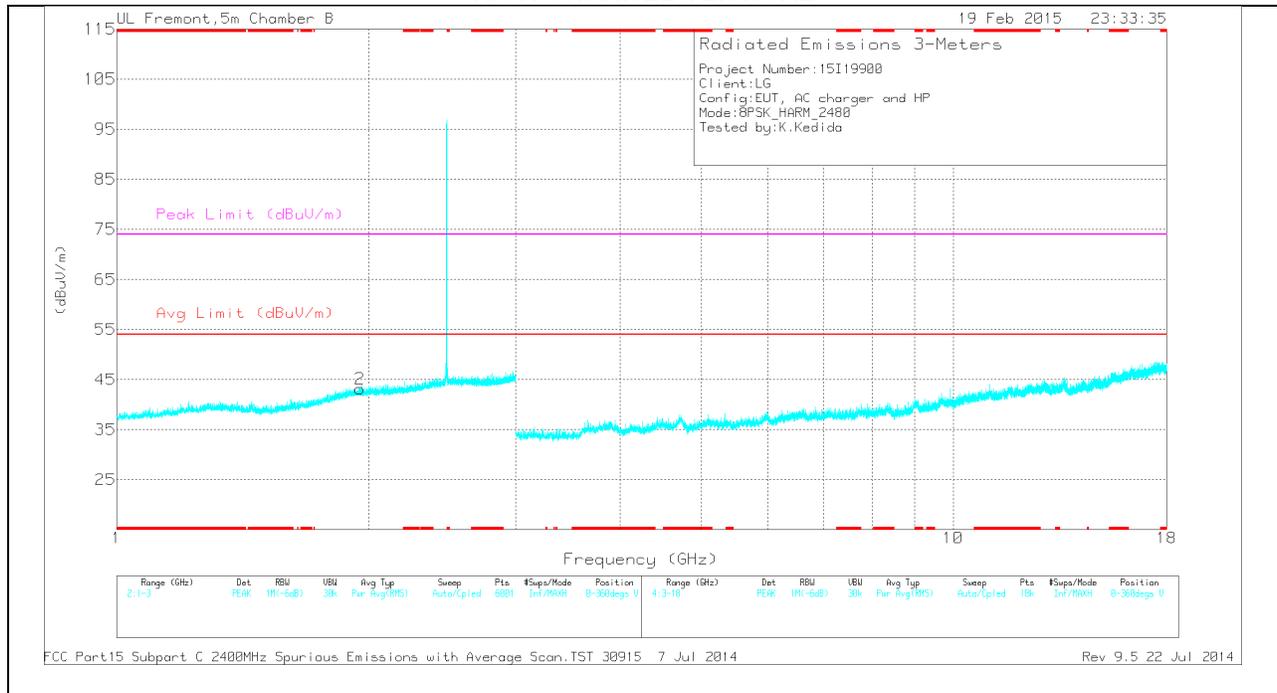
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.705	40.56	PK3	34.2	-29.3	45.46	-	-	74	-28.54	1	100	H
* 4.707	27.94	VB1T	34.2	-29.2	32.94	54	-21.06	-	-	1	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 T345 (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
3	* 4.727	33.28	PK	34.2	-29.1	38.38	-	-	74	-35.62	0-360	199	H
5	* 4.782	32.39	PK	34.2	-29	37.59	-	-	74	-36.41	0-360	199	H
2	1.954	35.12	PK	31.2	-23.2	43.12	-	-	-	-	0-360	101	V
1	1.965	34.81	PK	31.3	-23.2	42.91	-	-	-	-	0-360	100	H
4	9.717	28.26	PK	36.9	-23.7	41.46	-	-	-	-	0-360	101	H
6	9.717	28.26	PK	36.9	-23.7	41.46	-	-	-	-	0-360	101	H

PK - Peak detector

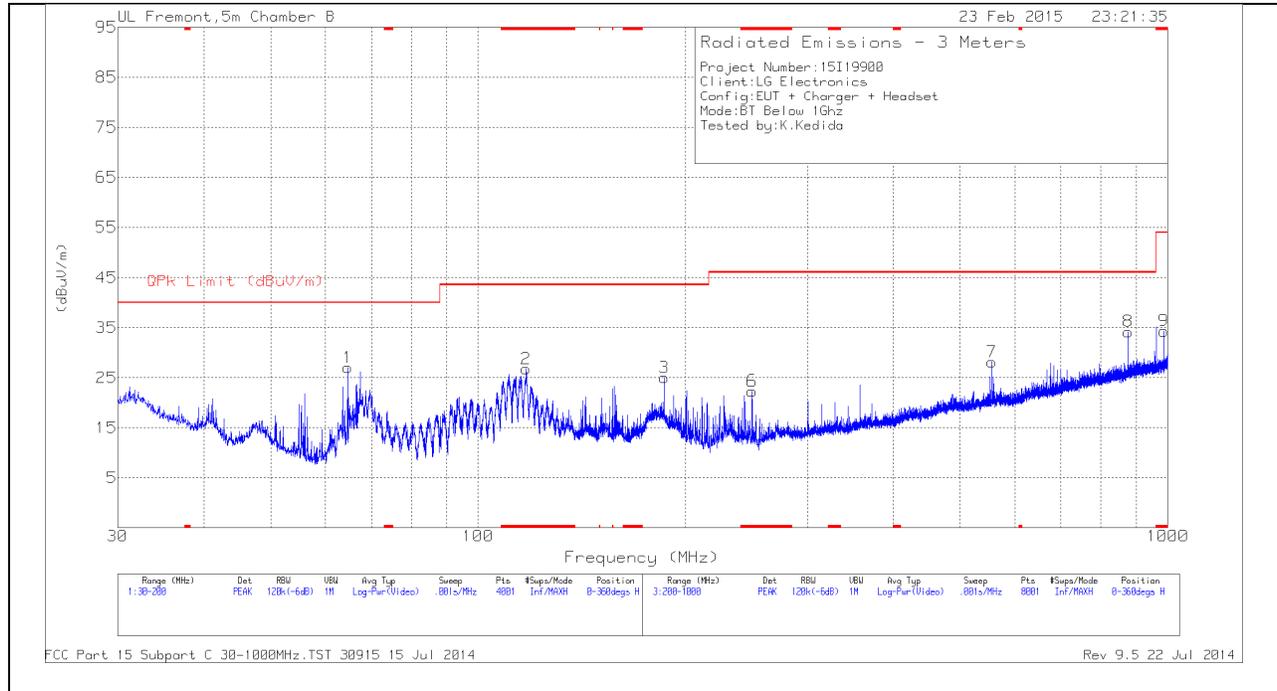
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 4.726	40.64	PK3	34.2	-29.1	45.74	-	-	74	-28.26	2	198	H
* 4.728	28.22	VB1T	34.2	-29.1	33.32	54	-20.68	-	-	2	198	H

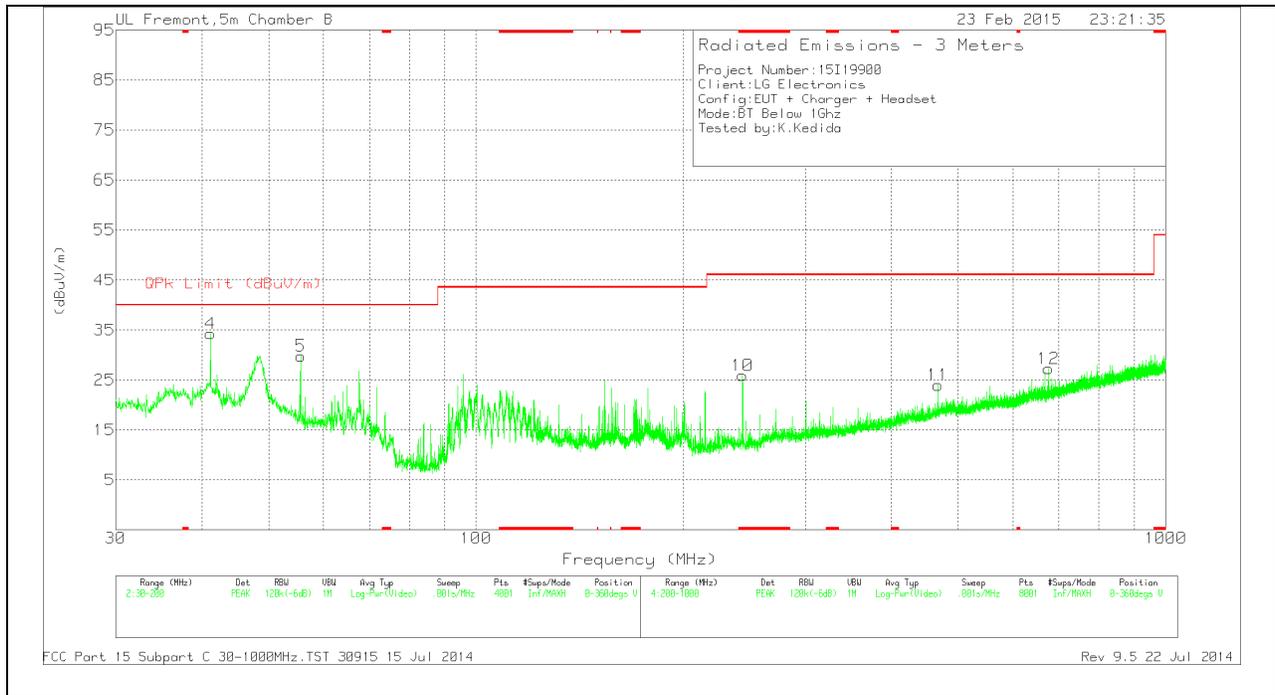
1.2. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



BELOW 1 GHz TABLE

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
2	* 117.4225	40.87	PK	13.8	-27.9	26.77	43.52	-16.75	0-360	300	H
6	* 249.6	37.2	PK	11.6	-26.5	22.3	46.02	-23.72	0-360	101	H
9	* 986.9	33.44	PK	23.2	-22.3	34.34	53.97	-19.63	0-360	101	H
10	* 243.4	40.77	PK	11.6	-26.5	25.87	46.02	-20.15	0-360	300	V
4	41.1775	49.88	PK	13.2	-28.8	34.28	40	-5.72	0-360	101	V
5	55.67	51.1	PK	7.3	-28.6	29.8	40	-10.2	0-360	101	V
1	64.68	47.72	PK	7.8	-28.5	27.02	40	-12.98	0-360	400	H
3	186.145	40.8	PK	11.3	-27.1	25	43.52	-18.52	0-360	100	H
11	467.6	32.48	PK	17.4	-25.9	23.98	46.02	-22.04	0-360	300	V
7	556	35.03	PK	18.6	-25.5	28.13	46.02	-17.89	0-360	200	H
12	676	32.16	PK	19.9	-24.8	27.26	46.02	-18.76	0-360	200	V
8	876.5	35.3	PK	22.1	-23.2	34.2	46.02	-11.82	0-360	200	H

PK - Peak detector