



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

**CERTIFICATION TEST REPORT
FOR**

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

MODEL NUMBER: LG-H790, LGH790, H790

**FCC ID: ZNFH790
IC ID: 2703C-H790**

REPORT NUMBER: 15I21235-E6V1

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Prepared for
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NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	08/31/15	Initial Issue	

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>
5. EQUIPMENT UNDER TEST	6
5.1. <i>DESCRIPTION OF EUT</i>	<i>6</i>
5.2. <i>MAXIMUM OUTPUT POWER.....</i>	<i>6</i>
5.3. <i>WORST-CASE CONFIGURATION AND MODE.....</i>	<i>6</i>
5.4. <i>MODIFICATIONS</i>	<i>6</i>
5.5. <i>DESCRIPTION OF TEST SETUP.....</i>	<i>7</i>
6. TEST AND MEASUREMENT EQUIPMENT	10
7. OCCUPIED BANDWIDTH	11
8. RADIATED EMISSION TEST RESULTS.....	12
8.1. <i>LIMITS AND PROCEDURE.....</i>	<i>12</i>
8.1.1. <i>FUNDAMENTAL AND SPURIOUS EMISSIONS (0.15 – 30 MHz)</i>	<i>14</i>
8.1.2. <i>TX SPURIOUS EMISSION 30 TO 1000 MHz (Normal Battery Cover)</i>	<i>15</i>
9. AC MAINS LINE CONDUCTED EMISSIONS.....	17
10. FREQUENCY STABILITY.....	20
11. SETUP PHOTOS	21

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC
EUT DESCRIPTION: CDMA/WCDMA/LTE PHONE + BLUETOOTH, with DTS/UNII a/b/g/n/ac & NFC
MODEL: LG-H790, LGH790, H790
SERIAL NUMBER: 1TLT7 (Radiated)
DATE TESTED: JULY 22-23, 2015

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8	Pass
INDUSTRY CANADA RSS-GEN Issue 4	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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Tested By:



GLENN ESCANO
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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 15, RSS-GEN Issue 4, and RSS-210 Issue 8.

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 checked="" type="checkbox"/> Chamber A(IC: 2324B-1)	<input type="checkbox"/> Chamber D(IC: 2324B-4)
<input type="checkbox"/> Chamber B(IC: 2324B-2)	<input type="checkbox"/> Chamber E(IC: 2324B-5)
<input checked="" type="checkbox"/> Chamber C(IC: 2324B-3)	<input type="checkbox"/> Chamber F(IC: 2324B-6)
	<input 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:

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

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

5.2. MAXIMUM OUTPUT POWER

The testing was performed at 3 meters. The transmitter maximum E-field at 30m distance is 18.59 dBuV/m which convert from the 3 meters data.

5.3. WORST-CASE CONFIGURATION AND MODE

The NFC function was tested at its' fundamental and only operational frequency of 13.56 MHz. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that the Z-orientation was the worst-case orientation; therefore all final radiated testing was performed with the EUT in the Z-orientation while generating continuous emissions.

5.4. MODIFICATIONS

No modifications were made during testing.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Radiated Emissions Above 30 MHz, AC Line Conducted Emissions and Frequency Stability:

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-N04WS	SA560000030	N/A
Earphone	LG	N/A	N/A	N/A

I/O CABLES

Radiated Emissions above 30 MHz, AC Line Conducted Emissions:

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Micro-USB	Shielded	1 m	None
2	Audio	1	Mini-Jack	Un-Shielded	1 m	None

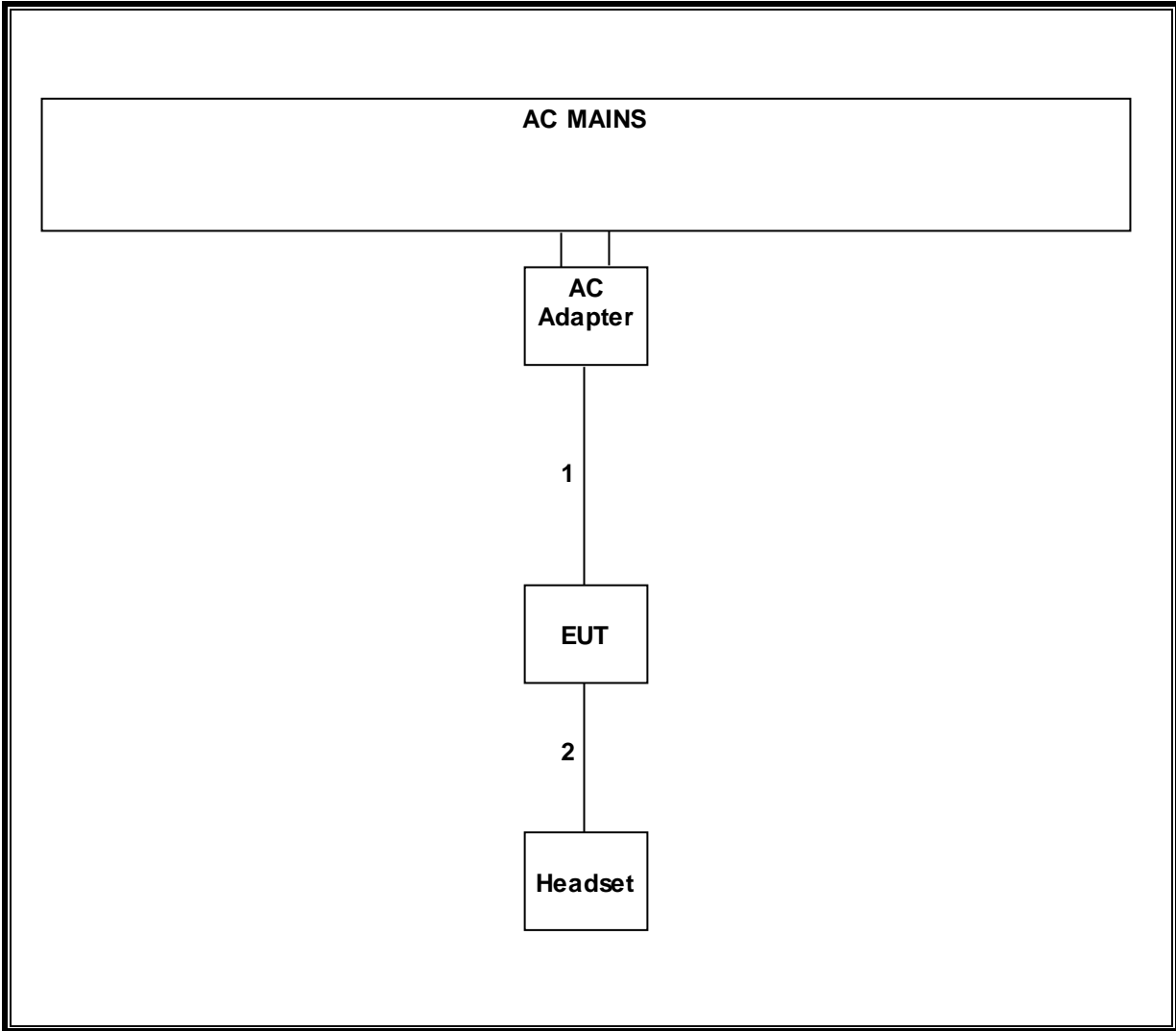
TEST SETUP

The EUT is a stand-alone device configured and tested in a worst-case setup.

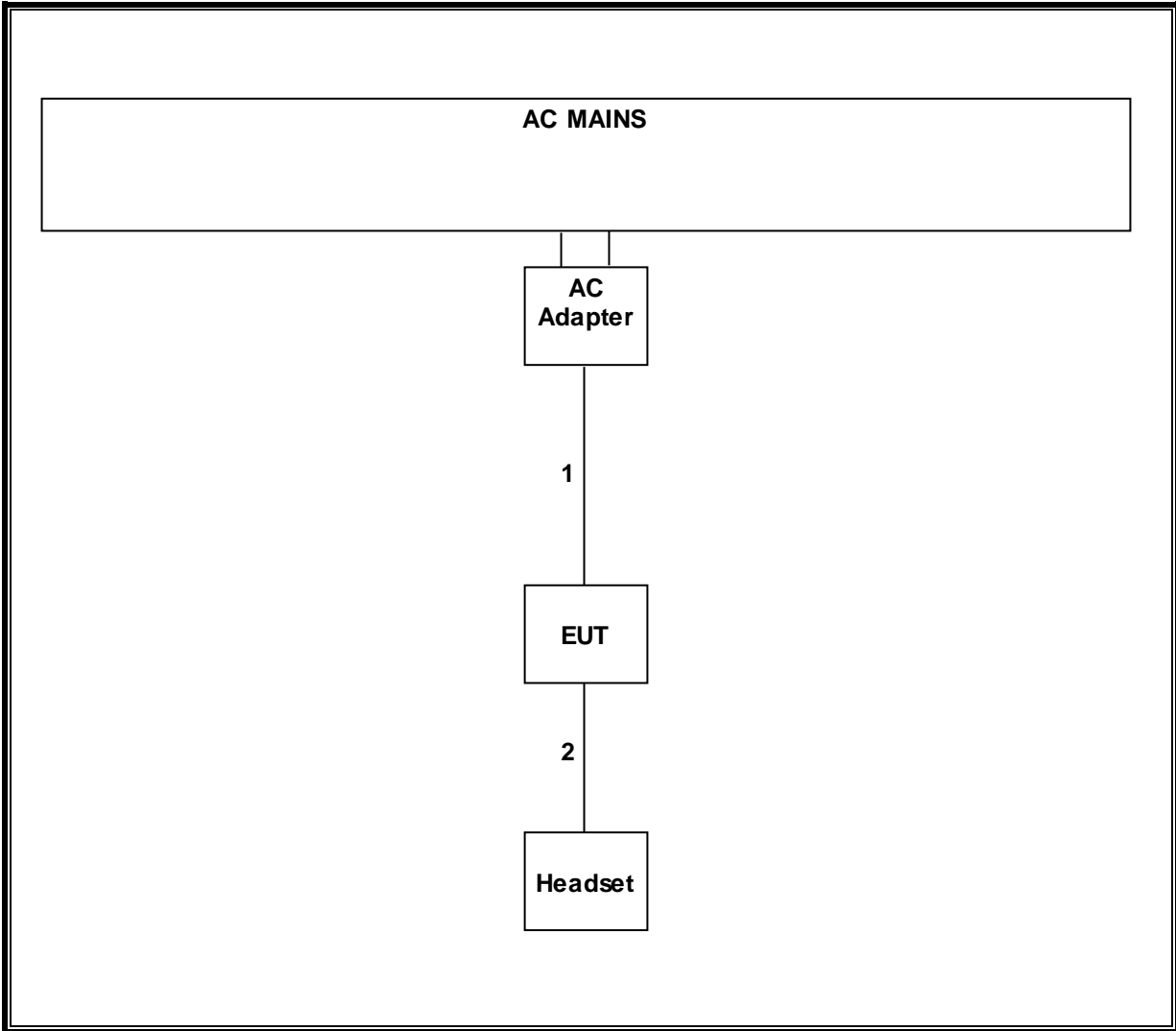
Note: worst case is using worst case orientation with AC charger and headset attached to the EUT with NFC signal continuously transmitting.

SETUP DIAGRAM FOR TESTS

Radiated Emissions Below 30 MHz:



Radiated Emissions above 30 MHz, AC Line Conducted Emissions:



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	T123	10/28/15
Antenna, Loop, 30 MHz	EMCO	6502	C00593	02/20/16
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	12/08/15
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/21/16
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/08/15
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/16
DMM	Fluke	77-11	N02303	10/31/15
Digital Thermometer	Tektronix	DTM920	None	10/21/15
Temperature Chamber	CSZ	2PHS-8-3	T267	03/04/16

7. OCCUPIED BANDWIDTH

RULE PART(S)

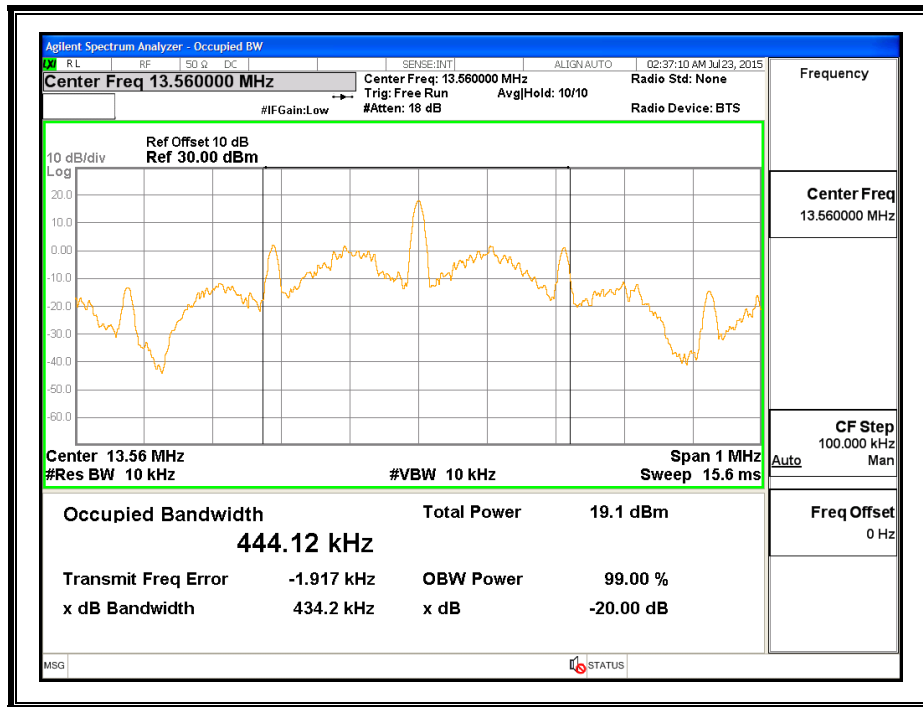
IC RSS-210 Issue 8

LIMITS

For reporting purposes only

RESULTS

Channel	Frequency (KHz)	99% Bandwidth (KHz)
Low	13.56	444.120



8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMIT

§15.225

IC RSS-210, Annex 2, Section A2.6 (Transmitter)

IC RSS-GEN, Section 7 (Receiver)

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/ meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110– 14.010 MHz and shall not exceed the general radiated emission limits in § 15.209 as follows:

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

Formula for converting the filed strength from uV/m to dBuV/m is:

Limit (dBuV/m) = 20 log limit (uV/m)

In addition:

§15.209 (d) The emission limits shown the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

§15.209 (d) The provisions in §§ 15.225, measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

TEST PROCEDURE

ANSI C63.4-2009

The EUT is an intentional radiator that incorporates a digital device. The highest fundamental frequency generated or used in the device is 13.56 MHz. The frequency range was investigated from 0.15 MHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater (1000MHz)

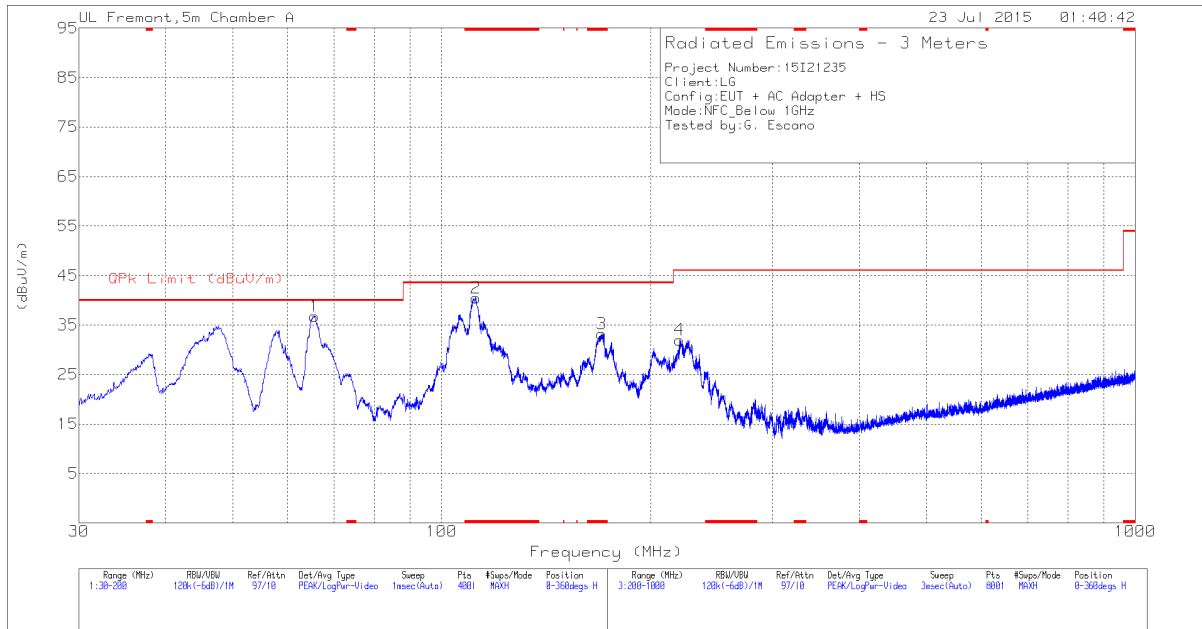
RESULTS

No non-compliance noted:

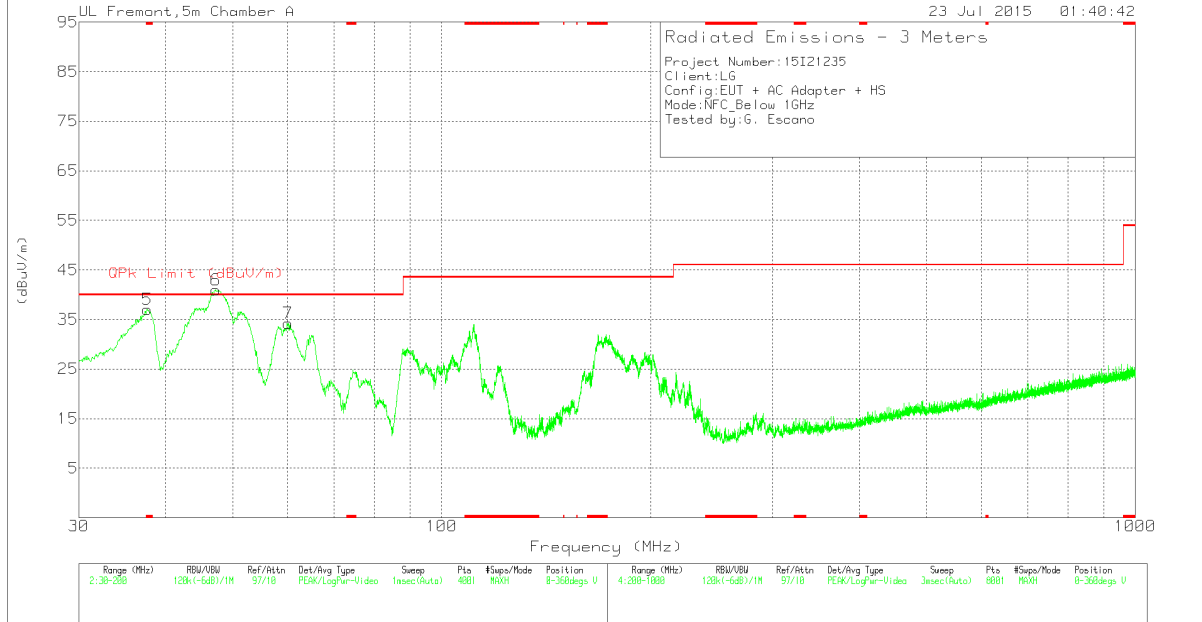
8.1.1. FUNDAMENTAL AND SPURIOUS EMISSIONS (0.15 – 30 MHz)

FCC Part 15, Subpart B & C													3 Meter Distance Measurement At Emissions Chamber	
Company: LG														
Project #: 15I21235														
Model #: LG-H790														
Tester: G. Escano														
Date: 7/22/2015														
Frequency (MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	AF (dB/m)	Distance (m)	Distance Correction (dB)	PK Corrected Reading (dBuV/m)	AV Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	PK Margin (dB)	AV Margin (dB)	Notes	
Loop Antenna Face On: Z-Position														
Fundamental Field Strength & Within Bands:														
13.56	67.12	--	--	10.56	1	-59.08	18.59	--	84.00	--	-65.4	--	Fundamental @ 30m Dist	
13.453	55.90	--	--	10.55	1	-59.08	7.36	--	50.48	--	-43.1	--	13.41-13.553MHz Spurious @ 30m	
13.553	61.53	--	--	10.56	1	-59.08	13.00	--	50.48	--	-37.5	--	13.41-13.553MHz Spurious @ 30m	
13.567	61.62	--	--	10.56	1	-59.08	13.09	--	50.48	--	-37.4	--	13.567-13.710MHz Spurious @ 30m	
13.665	55.98	--	--	10.57	1	-59.08	7.46	--	40.51	--	-33.0	--	13.567-13.710MHz Spurious @ 30m	
13.348	51.90	--	--	10.53	1	-59.08	3.34	--	40.51	--	-37.2	--	13.110-13.410MHz Spurious @ 30m	
13.772	51.78	--	--	10.58	1	-59.08	3.27	--	29.54	--	-26.3	--	13.710-14.010MHz Spurious @ 30m	
Loop Antenna Face Off: Z-Position														
Fundamental Field Strength & Within Bands:														
13.56	63.17	--	--	10.56	1	-59.08	14.64	--	84.00	--	-69.4	--	Fundamental @ 30m Dist	
13.453	51.38	--	--	10.55	1	-59.08	2.84	--	50.48	--	-47.6	--	13.41-13.553MHz Spurious @ 30m	
13.553	57.03	--	--	10.56	1	-59.08	8.50	--	50.48	--	-42.0	--	13.41-13.553MHz Spurious @ 30m	
13.567	57.16	--	--	10.56	1	-59.08	8.63	--	50.48	--	-41.9	--	13.567-13.710MHz Spurious @ 30m	
13.665	51.25	--	--	10.57	1	-59.08	2.73	--	40.51	--	-37.8	--	13.567-13.710MHz Spurious @ 30m	
13.348	47.54	--	--	10.53	1	-59.08	-1.02	--	40.51	--	-41.5	--	13.110-13.410MHz Spurious @ 30m	
13.772	47.19	--	--	10.58	1	-59.08	-1.32	--	29.54	--	-30.9	--	13.710-14.010MHz Spurious @ 30m	
Spurious Emissions 9kHz - 490kHz:														
0.01	65.07	--	--	18.7	1	-99.08	-15.31	-15.31	67.60	47.60	-82.9	-62.9	9kHz-10kHz Spurious @ 30m	
0.1	60.06	--	--	10.5	1	-99.08	-28.53	-28.53	47.60	27.60	-76.1	-56.1	10kHz-100kHz Spurious @ 30m	
0.489	50.21	--	--	10.21	1	-99.08	-38.66	-38.66	33.82	13.82	-72.5	-52.5	100kHz-489kHz Spurious @ 30m	
Spurious Emissions 490kHz - 30MHz:														
0.49	50.94	--	--	10.21	1	-59.08	2.06	--	33.80	--	-31.7	--	489kHz-490kHz Spurious @ 30m	
1	41.99	--	--	10.3	1	-59.08	-6.80	--	27.60	--	-34.4	--	490kHz-1MHz Spurious @ 30m	
1.5	33.58	--	--	10.28	1	-59.08	-15.23	--	24.08	--	-39.3	--	1MHz-1.705MHz Spurious @ 30m	
1.859	26.28	--	--	10.26	1	-59.08	-22.54	--	29.54	--	-52.1	--	1.705MHz-5MHz Spurious @ 30m	
6.142	26.81	--	--	10.2	1	-59.08	-22.08	--	29.54	--	-51.6	--	5-10MHz Spurious @ 30m	
24.05	19.07	--	--	9.49	1	-59.08	-30.53	--	29.54	--	-60.1	--	20-30MHz Spurious @ 30m	
* No more emissions were found up to 30MHz.														
Note: The emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 10000Mhz. Radiated emission limits in these three bands are based on measurements employing an average detector.														
P.K. = Peak Q.P. = Quasi Peak Readings A.F. = Antenna factor														
Rev. 11.21.14														

8.1.2. TX SPURIOUS EMISSION 30 TO 1000 MHz (Normal Battery Cover)



FCC Part 15 Subpart C 30-1000MHz.TST 30915 15 Jul 2014 Rev 9.5 24 Jun 2015



FCC Part 15 Subpart C 30-1000MHz.TST 30915 15 Jul 2014 Rev 9.5 24 Jun 2015

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 111.9825	58.02	Pk	12.9	-30.5	40.42	43.52	-3.1	0-360	299	H
3	* 170.2075	51.64	Pk	11.7	-30.1	33.24	43.52	-10.28	0-360	199	H
5	* 37.6288	52.28	Pk	15.9	-31.2	36.98	40	-3.02	0-360	101	V
6	47.255	62.73	Pk	9.3	-31.1	40.93	40	.93	0-360	101	V
7	60.1325	57.56	Pk	7.6	-30.9	34.26	40	-5.74	0-360	101	V
1	65.5938	59.58	Pk	8	-30.8	36.78	40	-3.22	0-360	399	H
4	220.4	51.11	Pk	10.7	-29.8	32.01	46.02	-14.01	0-360	101	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.
 PK - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 111.8107	48.16	Qp	12.9	-30.5	30.56	43.52	-12.96	39	263	H
* 37.8611	36.93	Qp	15.7	-31.2	21.43	40	-18.57	237	109	V
47.3313	51.81	Qp	9.2	-31.1	29.91	40	-10.09	94	117	V
60.2088	48.26	Qp	7.6	-30.9	24.96	40	-15.04	94	191	V
65.6658	43.62	Qp	8	-30.8	20.82	40	-19.18	174	308	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.
 QP - Quasi-Peak detector

9. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207

IC RSS-GEN, Section 8.8

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Notes:
1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

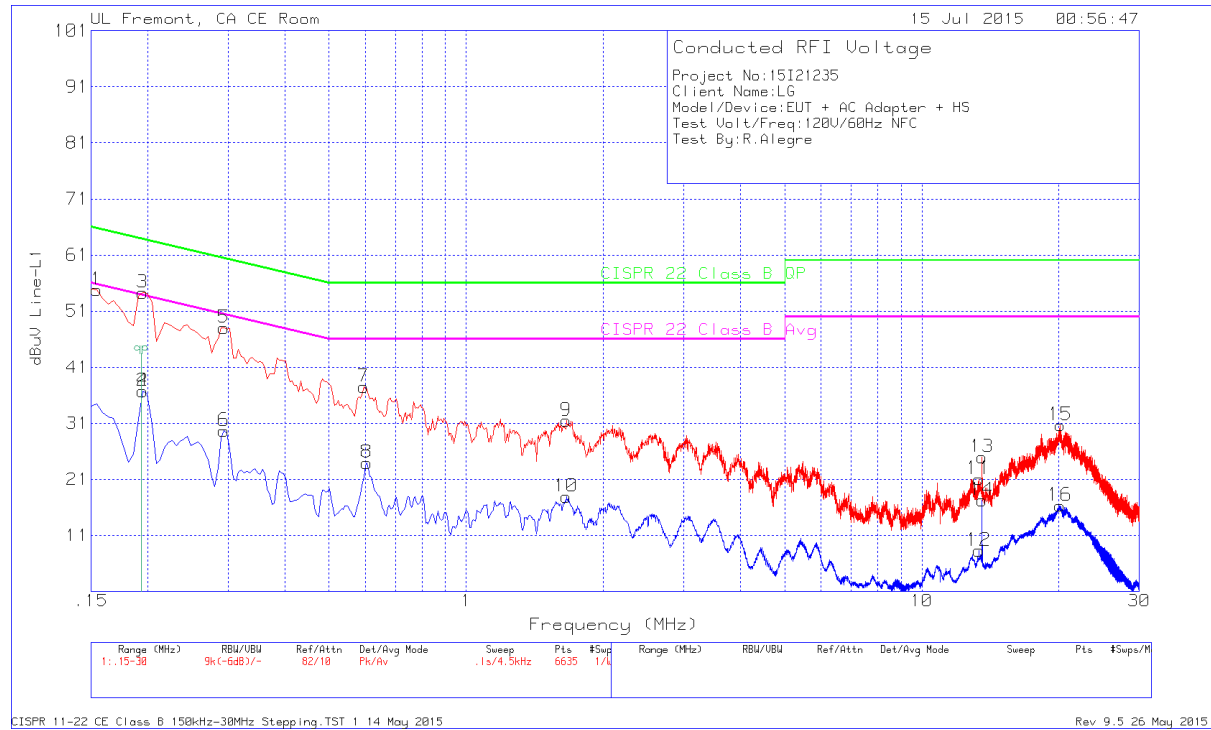
TEST PROCEDURE

ANSI C63.4-2009

RESULTS

No non-compliance noted:

LINE 1

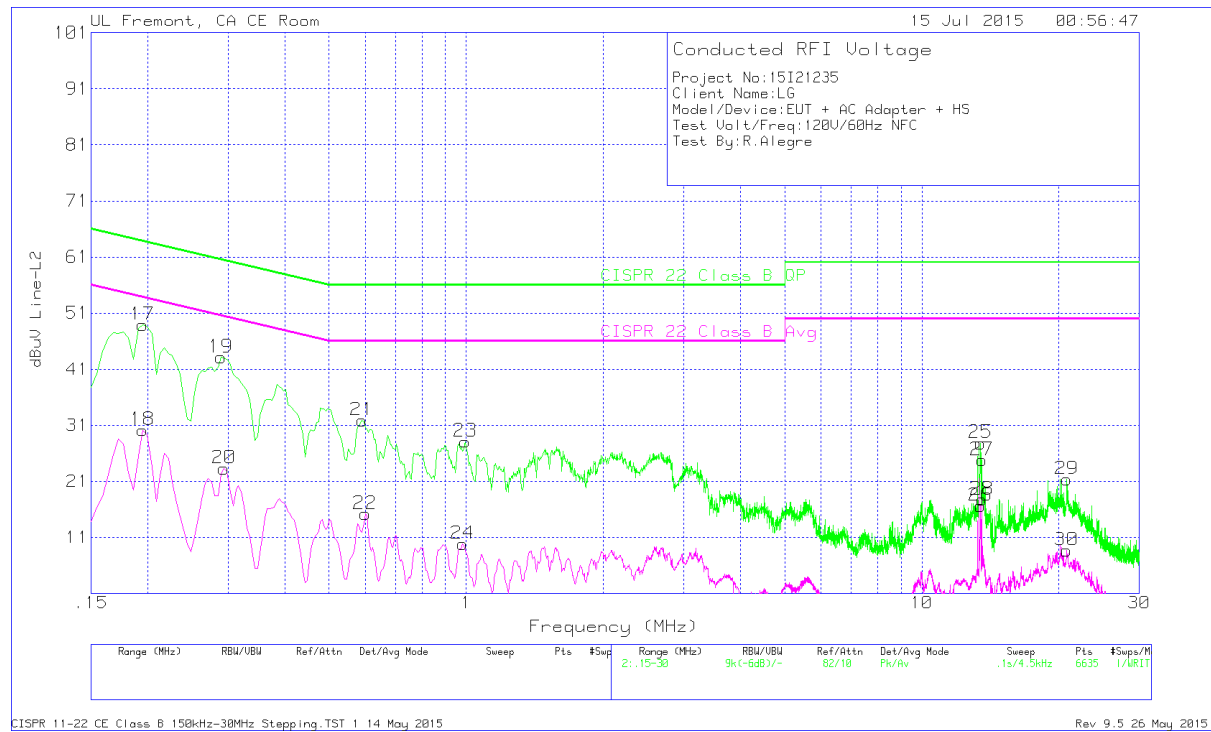


Range 1: Line-L1 .15 - 30MHz

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	.1545	53.5	Pk	1.3	0	54.8	65.75	-10.95		
2	.195	35.74	Av	1	0	36.74	-	-	53.82	-17.08
3	.195	53.28	Pk	1	0	54.28	63.82	-9.54		
4	.195	35.74	Av	1	0	36.74	-	-	53.82	-17.08
5	.294	47.4	Pk	.6	0	48	60.41	-12.41		
6	.294	29.04	Av	.6	0	29.64	-	-	50.41	-20.77
7	.5955	37.18	Pk	.3	0	37.48	56	-18.52		
8	.6045	23.66	Av	.3	0	23.96	-	-	46	-22.04
9	1.6575	31.14	Pk	.2	.1	31.44	56	-24.56		
10	1.6575	17.62	Av	.2	.1	17.92	-	-	46	-28.08
11	13.3485	20.64	Pk	.2	.2	21.04	60	-38.96		
12	13.3485	7.86	Av	.2	.2	8.26	-	-	50	-41.74
13	13.56	24.54	Pk	.2	.2	24.94	60	-35.06		
14	13.56	16.9	Av	.2	.2	17.3	-	-	50	-32.7
15	20.148	30.16	Pk	.3	.2	30.66	60	-29.34		
16	20.112	15.82	Av	.3	.2	16.32	-	-	50	-33.68

Pk - Peak detector
 Av - Average detection

LINE 2



Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
17	.195	47.88	Pk	1	0	48.88	63.82	-14.94		
18	.195	29.14	Av	1	0	30.14	-	-	53.82	-23.68
19	.2895	42.51	Pk	.6	0	43.11	60.54	-17.43		
20	.294	22.72	Av	.6	0	23.32	-	-	50.41	-27.09
21	.591	31.59	Pk	.3	0	31.89	56	-24.11		
22	.6	14.89	Av	.3	0	15.19	-	-	46	-30.81
23	.996	27.8	Pk	.3	0	28.1	56	-27.9		
24	.9825	9.46	Av	.3	.1	9.86	-	-	46	-36.14
25	13.4565	27.41	Pk	.2	.2	27.81	60	-32.19		
26	13.4565	16.25	Av	.2	.2	16.65	-	-	50	-33.35
27	13.56	24.38	Pk	.2	.2	24.78	60	-35.22		
28	13.56	17.35	Av	.2	.2	17.75	-	-	50	-32.25
29	20.814	20.85	Pk	.3	.2	21.35	60	-38.65		
30	20.805	8.2	Av	.3	.2	8.7	-	-	50	-41.3

Pk - Peak detector
 Av - Average detection

10. FREQUENCY STABILITY

LIMIT

IC RSS-GEN, Section 8.11

§15.225 (e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency, over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

TEST PROCEDURE

ANSI C63.4 Section 13

RESULTS

No non-compliance noted.

Reference Frequency: EUT Channel 13.560000 MHz @ 20°C				
Limit: ± 100 ppm = 1.356 kHz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600150	0.811	± 100
3.80	40	13.5600180	0.590	± 100
3.80	30	13.5600220	0.295	± 100
3.80	20	13.5600260	0.000	± 100
3.80	10	13.5600450	-1.401	± 100
3.80	0	13.5600520	-1.917	± 100
3.80	-10	13.5601010	-5.531	± 100
3.80	-20	13.5601050	-5.826	± 100
3.80	-30	13.5601090	-6.121	± 100
End of volt 3.23	20	13.560031	-0.369	± 100
4.37	20	13.560021	0.369	± 100