On your side

TEST REPORT

EMI Test for FCC Certification / ISED of LG L322DL

APPLICANT
LG Electronics USA, Inc.

REPORT NO.
HCT-EM-1905-FI005

DATE OF ISSUE
May 24, 2019

HCT Co., Ltd.
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA
Tel. +82 31 634 6300 Fax. +82 31 645 6401

HCT Co., Ltd.
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FCC ID / IC
ZNFL322DL / 2703C-X320WM

Applicant	LG Electronics USA, Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United Stats
Product Name Model Name Series Model Name	Multi-band CDMA/GSM/EDGE/WCDMA/LTE Phone with WLAN and Bluetooth LG L322DL Refer to the clause 1.1 Description of EUT
Travel Adaptor Information	Model name: MCS-V01WR Manufacturer: SUNLIN
Date of Test	May 13, 2019 to May 16, 2019
Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B / ICES-003 Issue 6 Class B ANSI C63.4-2014
Test Results	Refer to the present document
Manufacturer	LG Electronics Inc.

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

Tested by
Na-Eun Song (signature)

Technical Manager
Jeong-Hyun Choi (signature)

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	May 24, 2019	Initial Release

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. (See Test Report if any modifications were made for compliance)
I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.
HCT certifies that no party to application has been denial the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFL322DL
IC	2703C-X320WM
Model	LG L322DL
Series Model Name	LGL322DL, L322DL, LM-X320WM, LMX320WM, X320WM, LM-X320QMG, LMX320QMG, X320QMG, LM-X320QML, LMX320QML, X320QML, LM-X320QM6, LMX320QM6, X320QM6
EUT Type	Multi-band CDMA/GSM/EDGE/WCDMA/LTE Phone with WLAN and Bluetooth
TX Frequency	824.70 MHz to 848.31 MHz (CDMA BC0) 1 851.25 MHz to 1 908.75 MHz (CDMA BC1) 824.20 MHz to 848.80 MHz (GSM 850) 1 850.20 MHz to 1 909.80 MHz (GSM 1 900) 1 852.4 MHz to 1 907.6 MHz (WCDMA B2) 1712.4 MHz to 1752.6 MHz (WCDMA B4) 826.40 MHz to 846.60 MHz (WCDMA B5) 1 850 MHz to 1 910 MHz (LTE B2) 1 710 MHz to 1 755 MHz (LTE B4) 824 MHz to 849 MHz (LTE B5) 699 MHz to 716 MHz (LTE B12) 777 MHz to 787 MHz (LTE B13) 704 MHz to 716 MHz (LTE B17) 1 710 MHz to 1 780 MHz (LTE B66) 663 MHz to 698 MHz (LTE B71) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)
RX Frequency	869.70 MHz to 893.31 MHz (CDMA BC0) 1 931.25 MHz to 1 988.75 MHz (CDMA BC1) 869.20 MHz to 893.80 MHz (GSM 850) 1 930.20 MHz to 1 989.80 MHz (GSM 1 900) 1 932.4 MHz to 1 987.6 MHz (WCDMA B2) 2 112.4 MHz to 2 152.6 MHz (WCDMA B4) 871.40 MHz to 891.60 MHz (WCDMA B5) 1 930 MHz to 1 990 MHz (LTE B2)

	2 110 MHz to 2 155 MHz (LTE B4) 869 MHz to 894 MHz (LTE B5) 729 MHz to 746 MHz (LTE B12) 746 MHz to 756 MHz (LTE B13) 734 MHz to 746 MHz (LTE B17) 2 110 MHz to 2 200 MHz (LTE B66) 617 MHz to 652 MHz (LTE B71) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)

1.2 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Serial Number	Manufacturer
EUT	LG L322DL	-	LG
Data Cable	EAD62377921	-	LEAGTECH
Earphone	EAB64468444	-	CRESYN
TA	MCS-V01WR	-	SUNLIN
Micro SD card	Extreme Micro SDHC UHS-1 CLASS 10 (32 GB)	-	SanDisk

1.3 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	Micro USB	Y	N/A	(P)1.0
	Earphone	N/A	N	(D)1.2

NOTE. The marked "(D)" means the data cable and "(P)" means the power cable.

1.4 Noise Suppression Parts on Cable (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	Micro USB	N	N/A	Y	Both End
	Earphone	N	N/A	Y	EUT End

1.5 Test Facility

Test site is located at 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, South Korea.
Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014.
The Normalized site attenuations (30 MHz to 1 GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014

Measurement Facilities	Designation No.
Radiated Field strength measurement facility 3 m Semi Anechoic chamber	KR0032
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #1	
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #2	

1.6 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in ac cordance with the manufacturers recommendations for utilizing calibration equipment, which is traceable to recognized national standards.Espectially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2006).

1.7 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty
Conducted Emission (0.15 MHz to 30 MHz)	1.82 dB
Radiated Emissions (30 MHz to 1 GHz)	5.20 dB
Radiated Emissions (1 GHz to 18 GHz)	5.24 dB
Radiated Emissions (18 GHz to 40 GHz)	5.40 dB

2. DESCRIPTION OF TEST

2.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 7.3

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).
   If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).
   Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.
c. The frequency range from 150 kHz to 30 MHz was searched.

Conducted Emission Limits

Frequency (MHz)	Resolution Bandwidth (kHz)	Class A		Class B	
		Quasi-Peak (dBµV)	Average (dBµV)	Quasi-Peak (dBµV)	Average (dBµV)
0.15 to 0.5	9	79	66	66 to 56*	56 to 46*
0.5 to 5	9	73	60	56	46
5 to 30	9	73	60	60	50

NOTE. Decreases with the logarithm of the frequency.

2.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 8.3

a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
f. The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
g. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
(1 GHz to 40 GHz)

Radiated Emission Limits

Frequency (MHz)	Class A			Class B		
	Antenna Distance (m)	Field Strength (μV/m)	Quasi-Peak (dBμV/m)	Antenna Distance (m)	Field Strength (μV/m)	Quasi-Peak (dBμV/m)
30 to 88	10	90	39.0	3	100	40.0
88 to 216	10	150	43.5	3	150	43.5
216 to 960	10	210	46.4	3	200	46.0
Above 960	10	300	49.5	3	500	54.0

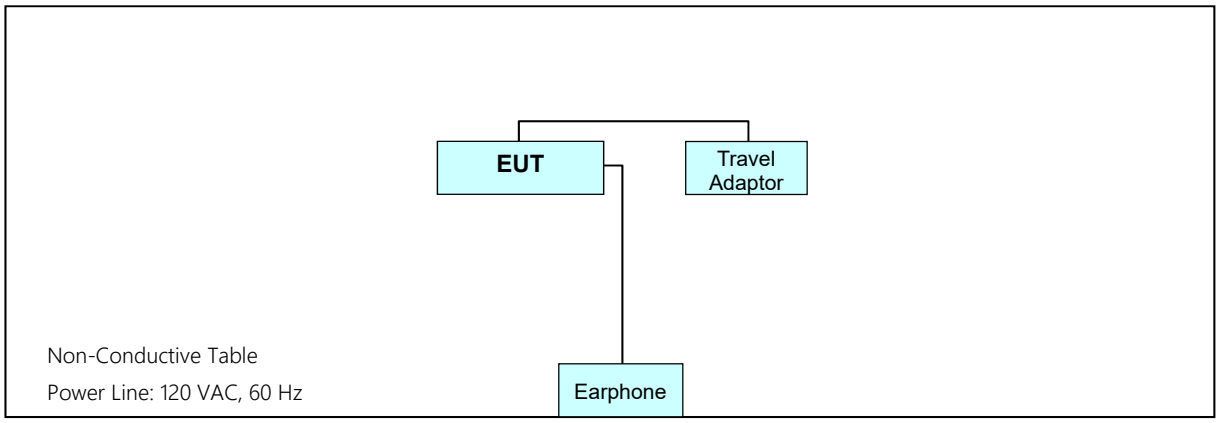
Frequency (MHz)	Antenna Distance (m)	Class A		Class B	
		Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
Above 1 000	3	80	60	74	54

2.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 GHz, whichever is lower
Below 1.705	30

2.3 Configuration of Tested System



3. PRELIMINARY TEST

3.1 Conducted Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Modes: FRONT CAMERA & MP3 mode
REAR CAMERA & FM RADIO mode
IDLE mode
NOTE. The worst-case emissions are reported.

3.2 Radiated Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Modes: FRONT CAMERA & MP3 mode
REAR CAMERA & FM RADIO mode
IDLE mode
NOTE. The worst-case emissions are reported.

4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission

4.1.1 Measuring instruments

Type		Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
☒	EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.25.2018
☒	LISN	Rohde & Schwarz	ENV216	102245	1 year	12.12.2018
☒	Software	Rohde & Schwarz	EMC32 VER8.54.0	-	-	-

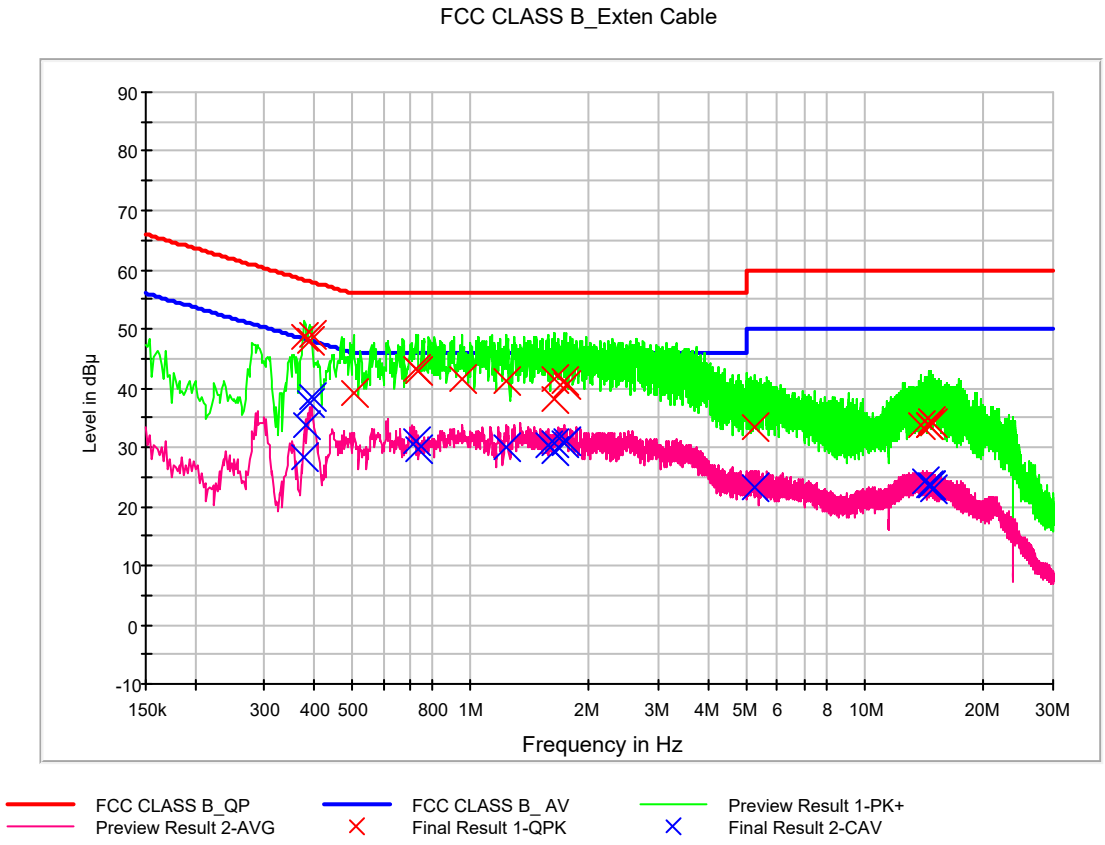
4.1.2 Operating Condition

The test results of conducted emission at mains ports provide the following information:

Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B ICES-003 Issue 6 Class B ANSI C63.4-2014
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operating Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	Shielded Room
Temperature	22.7 °C
Relative Humidity	43.3 %
Test Date	May 13, 2019

4.1.3 Measuring Data

Figure 1: Conducted Emission, AC Main Port, Line (L1)



QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.380000	48.5	9.000	L1	9.7	9.8	58.3
0.390000	48.0	9.000	L1	9.7	10.1	58.1
0.396000	48.8	9.000	L1	9.7	9.1	57.9
0.504000	39.0	9.000	L1	9.8	17.0	56.0
0.728000	43.2	9.000	L1	9.8	12.8	56.0
0.732000	42.9	9.000	L1	9.8	13.1	56.0
0.952000	41.6	9.000	L1	9.8	14.4	56.0
1.234000	41.3	9.000	L1	9.8	14.7	56.0
1.626000	41.6	9.000	L1	9.9	14.4	56.0
1.630000	38.3	9.000	L1	9.9	17.7	56.0
1.734000	41.0	9.000	L1	9.9	15.0	56.0
1.740000	40.6	9.000	L1	9.9	15.4	56.0
5.260000	33.2	9.000	L1	10.0	26.8	60.0
13.928000	33.7	9.000	L1	10.4	26.3	60.0
14.524000	33.6	9.000	L1	10.4	26.4	60.0
14.574000	33.8	9.000	L1	10.4	26.2	60.0
14.744000	34.3	9.000	L1	10.4	25.7	60.0
14.874000	33.9	9.000	L1	10.4	26.1	60.0

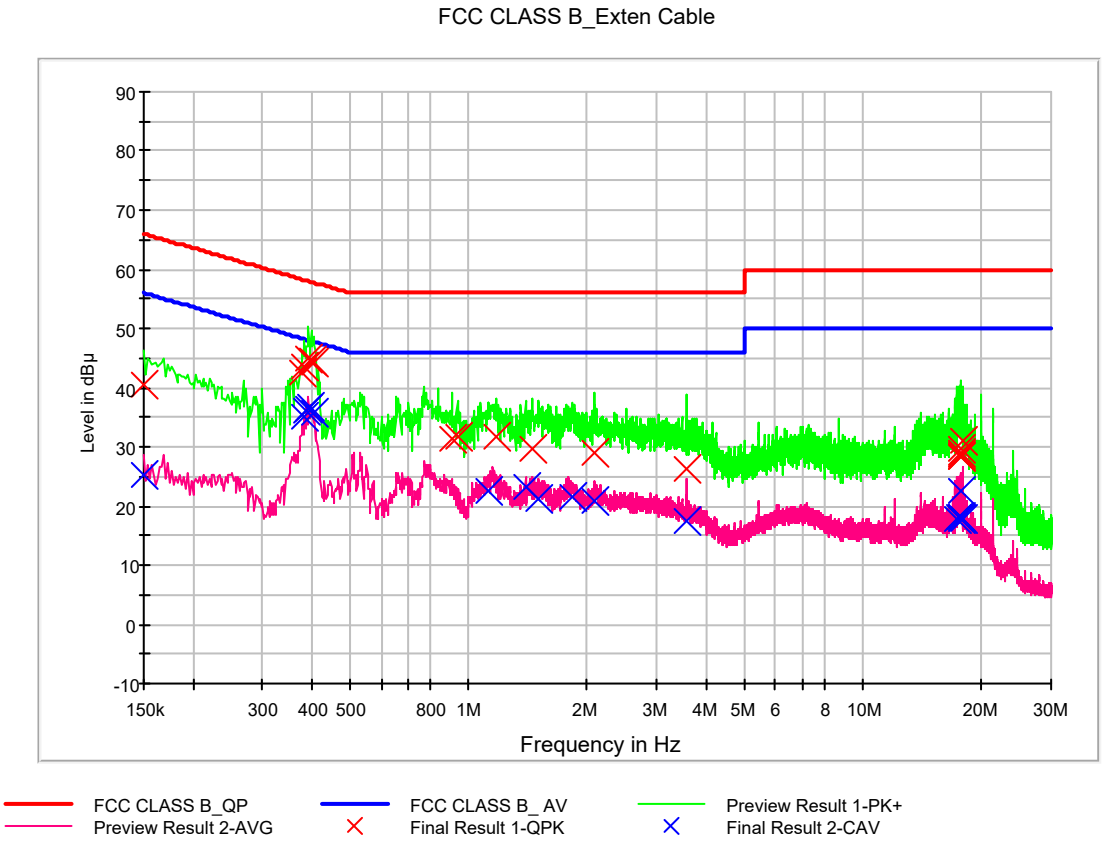
Calculation Formula:

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage= Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage

CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.376000	28.2	9.000	L1	9.7	20.2	48.4
0.382000	33.7	9.000	L1	9.7	14.5	48.2
0.390000	37.6	9.000	L1	9.7	10.4	48.1
0.394000	38.5	9.000	L1	9.7	9.5	48.0
0.728000	31.0	9.000	L1	9.8	15.0	46.0
0.732000	29.7	9.000	L1	9.8	16.3	46.0
1.234000	30.2	9.000	L1	9.8	15.8	46.0
1.568000	30.5	9.000	L1	9.9	15.5	46.0
1.626000	30.7	9.000	L1	9.9	15.3	46.0
1.630000	29.5	9.000	L1	9.9	16.5	46.0
1.734000	30.6	9.000	L1	9.9	15.4	46.0
1.740000	30.9	9.000	L1	9.9	15.1	46.0
5.260000	23.3	9.000	L1	10.0	26.7	50.0
14.112000	24.2	9.000	L1	10.4	25.8	50.0
14.524000	23.6	9.000	L1	10.4	26.4	50.0
14.634000	23.7	9.000	L1	10.4	26.3	50.0
14.744000	23.5	9.000	L1	10.4	26.5	50.0
14.874000	22.9	9.000	L1	10.4	27.1	50.0

Figure 2: Conducted Emission, AC Main Port, Line (N)



QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	40.5	9.000	N	9.8	25.5	66.0
0.380000	42.6	9.000	N	9.9	15.7	58.3
0.384000	43.5	9.000	N	9.9	14.6	58.2
0.392000	45.1	9.000	N	9.9	13.0	58.0
0.400000	44.7	9.000	N	9.9	13.2	57.9
0.404000	44.3	9.000	N	9.9	13.4	57.8
0.906000	31.5	9.000	N	10.0	24.5	56.0
0.936000	31.7	9.000	N	10.0	24.3	56.0
1.176000	31.8	9.000	N	10.0	24.2	56.0
1.454000	29.8	9.000	N	10.1	26.2	56.0
2.088000	29.0	9.000	N	10.0	27.0	56.0
3.570000	26.4	9.000	N	10.1	29.6	56.0
17.678000	29.8	9.000	N	10.8	30.2	60.0
17.698000	28.6	9.000	N	10.8	31.4	60.0
17.710000	28.4	9.000	N	10.8	31.6	60.0
17.716000	28.9	9.000	N	10.8	31.1	60.0
17.752000	28.4	9.000	N	10.8	31.6	60.0
17.844000	31.1	9.000	N	10.8	28.9	60.0

CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	25.4	9.000	N	9.8	30.6	56.0
0.384000	35.0	9.000	N	9.9	13.2	48.2
0.388000	36.0	9.000	N	9.9	12.1	48.1
0.392000	36.5	9.000	N	9.9	11.5	48.0
0.398000	36.7	9.000	N	9.9	11.2	47.9
0.406000	35.6	9.000	N	9.9	12.1	47.7
1.128000	22.6	9.000	N	10.0	23.4	46.0
1.394000	23.2	9.000	N	10.1	22.8	46.0
1.504000	21.0	9.000	N	10.1	25.0	46.0
1.824000	21.5	9.000	N	10.1	24.5	46.0
2.088000	20.9	9.000	N	10.0	25.1	46.0
3.570000	17.5	9.000	N	10.1	28.5	46.0
17.322000	18.0	9.000	N	10.8	32.0	50.0
17.462000	18.0	9.000	N	10.8	32.0	50.0
17.678000	17.9	9.000	N	10.8	32.1	50.0
17.692000	22.6	9.000	N	10.8	27.4	50.0
17.752000	18.3	9.000	N	10.8	31.7	50.0
17.844000	17.9	9.000	N	10.8	32.1	50.0

4.2 Radiated Emission Below 1 GHz

4.2.1 Measuring instruments

	Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
☒	EMI test receiver	Rohde & Schwarz	ESI40	831564103	1 year	10.31.2018
☒	Trilog antenna	Schwarzbeck	VULB 9168	255	2 year	03.26.2019
☒	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒	Antenna master controller	INNCO Systems	CO 3000	CO3000/870/ 35990515/L	N/A	-
☒	Turn Table	INNCO Systems	1060	-	N/A	-
☒	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
☒	Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-

4.2.2 Operating Condition

The test results of radiated emission provide the following information:

Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ICES-003 Issue 6 Class B ANSI C63.4-2014
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Operating Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.8 °C
Relative Humidity	45.2 %
Test Date	May 16, 2019

4.2.3 Measuring Data

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.645291	29.7	100.0	V	213.0	18.3	10.3	40.0
50.178357	22.7	100.0	V	182.0	19.8	17.3	40.0
100.234469	25.8	274.8	H	287.0	15.1	17.7	43.5
150.346693	24.2	274.8	V	274.0	19.4	19.3	43.5
578.334670	25.4	100.0	V	146.0	26.8	20.6	46.0
916.783567	30.4	325.0	V	308.0	31.5	15.6	46.0

- Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. QuasiPeak = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
4. Margin = Limit - QuasiPeak

4.3 Radiated Emission Above 1 GHz

4.3.1 Measuring instruments

	Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
☒	EMI test receiver	Rohde & Schwarz	ESI40	831564103	1 year	10.31.2018
☒	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒	Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
☒	Turn table	INNCO Systems	1060	-	N/A	-
☒	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
☒	Horn antenna	Schwarzbeck	BBHA 9120D	01836	2 year	07.20.2018
☒	Low Noise amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.04.2019
☒	Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-

4.3.2 Operating Condition

The test results of radiated emission provide the following information:

Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ICES-003 Issue 6 Class B ANSI C63.4-2014
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Frequency	2 480 MHz
Tested Frequency Range	1 GHz to 18 GHz
Operation Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.1 °C
Relative Humidity	41.9 %
Test Date	May 14, 2019

4.3.3 Measuring Data

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
4911.172344	39.0	299.4	H	12.0	-16.2	35.0	74.0
5642.835671	39.2	321.6	V	64.0	-15.3	34.8	74.0
7360.571143	45.3	248.5	H	286.0	-9.9	28.7	74.0
9561.372746	49.8	292.4	V	158.0	-5.4	24.2	74.0
10486.222445	49.2	261.5	H	294.0	-3.6	24.8	74.0
14403.757515	50.4	199.4	H	53.0	0.2	23.6	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
4911.172344	25.8	299.4	H	12.0	-16.2	28.2	54.0
5642.835671	26.5	321.6	V	64.0	-15.3	27.5	54.0
7360.571143	32.0	248.5	H	286.0	-9.9	22.0	54.0
9561.372746	35.8	292.4	V	158.0	-5.4	18.2	54.0
10486.222445	35.8	261.5	H	294.0	-3.6	18.2	54.0
14403.757515	37.0	199.4	H	53.0	0.2	17.0	54.0

- Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. Peak or CAverage = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
4. Margin = Limit - Peak or CAverage

5. CONCLUSION

The data collected shows that the **EUT Type: Multi-band CDMA/GSM/EDGE/WCDMA/LTE Phone with WLAN and Bluetooth, Model: LG L322DL** complies with §15.107 and §15.109 of the FCC rules and ICES-003 Issue 6 of the IC rules.

6. APPENDIX A. TEST SETUP PHOTO

Please refer to Appendix. A

File No.	Date of Issue	Description
HCT-EM-1905-FI005-P	May 24, 2019	Initial Release

End of report