

EMI TEST REPORT

FCC CERTIFICATION / ISED

Applicant:

LG Electronics USA, Inc.
1000 Sylvan Avenue, Englewood Cliffs NJ 07632
United States

Date of Issue: May 24, 2019**Test Report No.** HCT-EM-1904-FI006**Test Site:** HCT CO., LTD.**FCC ID
IC****ZNFL322DL
2703C-X320WM**

Rule Part(s)/Standard(s) : FCC CFR 47 PART 15 Subpart B Class B
ICES-003 Issue 6 Class B
ANSI C63.4-2014

EUT Type : Multi-band CDMA/GSM/EDGE/WCDMA/LTE Phone with
WLAN and Bluetooth

Model Name : LG L322DL

Series Model Name : LGL322DL, L322DL, LM-X320WM, LMX320WM, X320WM,
LM-X320QMG, LMX320QMG, X320QMG, LM-X320QML,
LMX320QML, X320QML, LM-X320QM6, LMX320QM6, X320QM6

TA Information : Model Name: MCS-01WAE / Manufacturer: AOHA

Date of Test : April 12, 2019 to April 17, 2019

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 denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

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REVISION HISTORY

The revision history for this document is shown in table.

Report No.	Issue Date	Information About Changes
HCT-EM-1904-FI006	May 24, 2019	Initial Release



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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-01WAE	-	AOHAI
Micro SD Card	SAMSUNG EVO+ microSDXC CLASS10 UHS-I (256 GB)	-	SAMSUNG

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

* 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	Registration Number
Radiated Field strength measurement facility 3 m Semi Anechoic chamber	90661
Radiated Field strength measurement facility 10 m Semi Anechoic chamber	
Filing the EMI Measurement Facility (3 m Semi Anechoic Chamber and Shielded Room)	IC 5944A-4
Filing the EMI Measurement Facility (10 m Semi-Anechoic Chamber)	IC 5944A-2

1.6 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturers recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

Especially, 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 (dB)
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. LIST OF TEST EQUIPMENT

<u>Type</u>	<u>Manufacturer</u>	<u>Model Name</u>	<u>Serial Number</u>	<u>Calibration Cycle</u>	<u>CAL Date</u>
<u>Conducted Emission</u>					
☒ EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.25.2018
☒ LISN	Rohde & Schwarz	ENV216	102245	1 year	12.12.2018
☐ LISN	Rohde & Schwarz	ENV216	100073	1 year	05.03.2018
☒ Software	Rohde & Schwarz	EMC32 VER8.54.0	-	-	-
<u>Radiated Emission</u>					
-For measurement below 1 GHz					
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	07.27.2018
☒ Trilog Antenna	Schwarzbeck	VULB 9168	760	2 year	03.22.2019
☒ 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	-
☐ EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.14.2018
☐ Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-
-For measurement above 1 GHz					
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	07.27.2018
☒ 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
☐ Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	12.17.2018
☐ Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170#786	2 year	12.05.2017
☐ Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☐ Power Amplifier	CERNEX	CBLU1183540	21691	1 year	06.25.2018
☐ Antenna master	HD GmbH	MA240	240/520	N/A	-
☐ EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.14.2018
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-



3. DESCRIPTION OF TEST

3.1 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)	Quasi-Peak (dB(μV))	Average (dB(μV))
0.15 to 0.5	9	66 to 56*	56 to 46*
0.5 to 5	9	56	46
5 to 30	9	60	50

**Decreases with the logarithm of the frequency.*



3.2 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)	Antenna Distance (m)	Field Strength ($\mu\text{V/m}$)	Quasi-Peak ($\text{dB}(\mu\text{V/m})$)
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Peak ($\text{dB}(\mu\text{V/m})$)	Average ($\text{dB}(\mu\text{V/m})$)
Above 1 000	3	74	54

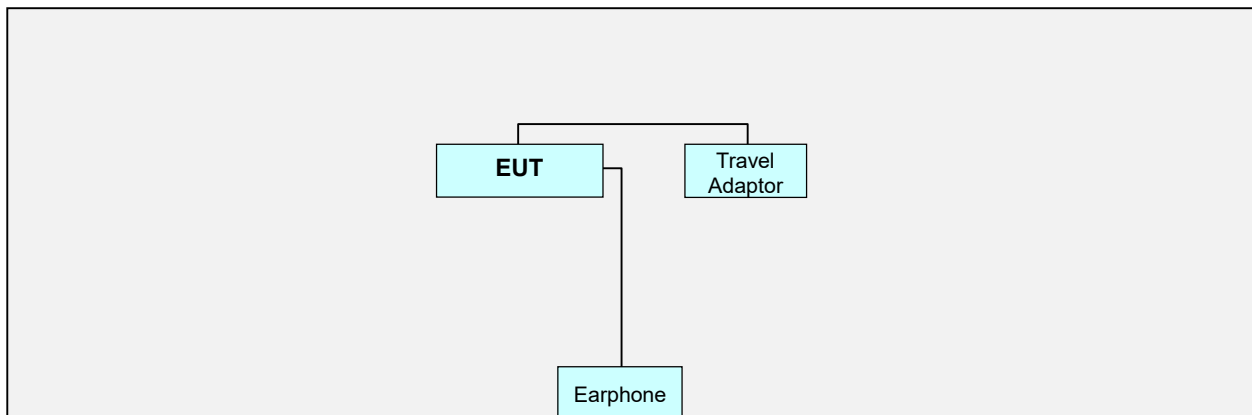


3.2.1 Frequency Range of Radiated Measurements

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	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

3.3 Configuration of Tested System



Non-Conductive Table
Power Line: 120 VAC, 60 Hz



4. PRELIMINARY TEST

4.1 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.

4.2 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.



5. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

5.1 Conducted Emission

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

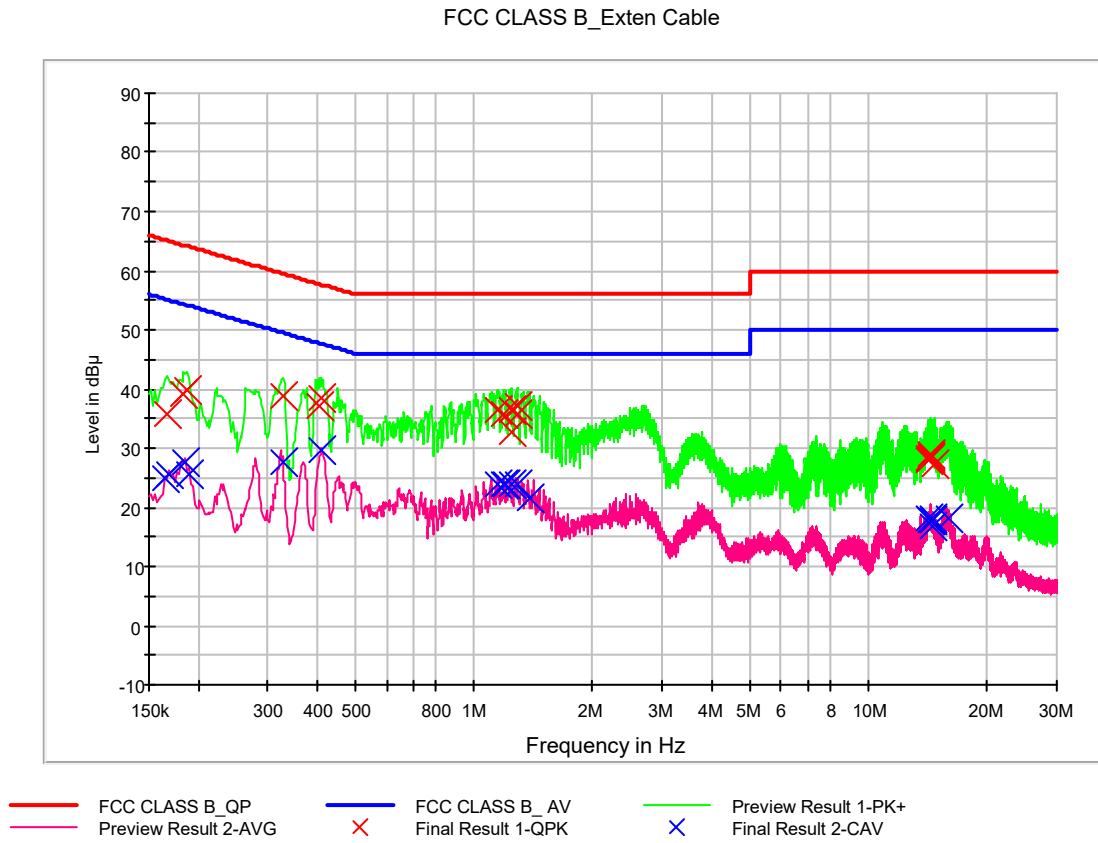
Rule Part / Standard	FCC PART 15 Subpart B Class B ICES-003 Issue 6 Class B ANSI C63.4-2014
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operating Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	Shielded Room
Temperature	22.4 °C
Relative Humidity	42.7 %
Test Date	April 13, 2019

- 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



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





QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.166000	35.7	9.000	L1	9.7	29.4	65.2
0.184000	39.2	9.000	L1	9.7	25.1	64.3
0.188000	39.7	9.000	L1	9.7	24.4	64.1
0.330000	38.8	9.000	L1	9.7	20.6	59.5
0.404000	37.1	9.000	L1	9.7	20.7	57.8
0.410000	38.3	9.000	L1	9.7	19.3	57.6
1.148000	36.4	9.000	L1	9.8	19.6	56.0
1.190000	35.7	9.000	L1	9.8	20.3	56.0
1.242000	36.4	9.000	L1	9.9	19.6	56.0
1.248000	32.8	9.000	L1	9.9	23.2	56.0
1.284000	37.1	9.000	L1	9.9	18.9	56.0
1.288000	35.6	9.000	L1	9.9	20.4	56.0
14.164000	28.2	9.000	L1	10.4	31.8	60.0
14.274000	27.8	9.000	L1	10.4	32.2	60.0
14.346000	28.1	9.000	L1	10.4	31.9	60.0
14.382000	28.8	9.000	L1	10.4	31.2	60.0
14.424000	29.0	9.000	L1	10.4	31.0	60.0
14.618000	27.1	9.000	L1	10.4	32.9	60.0

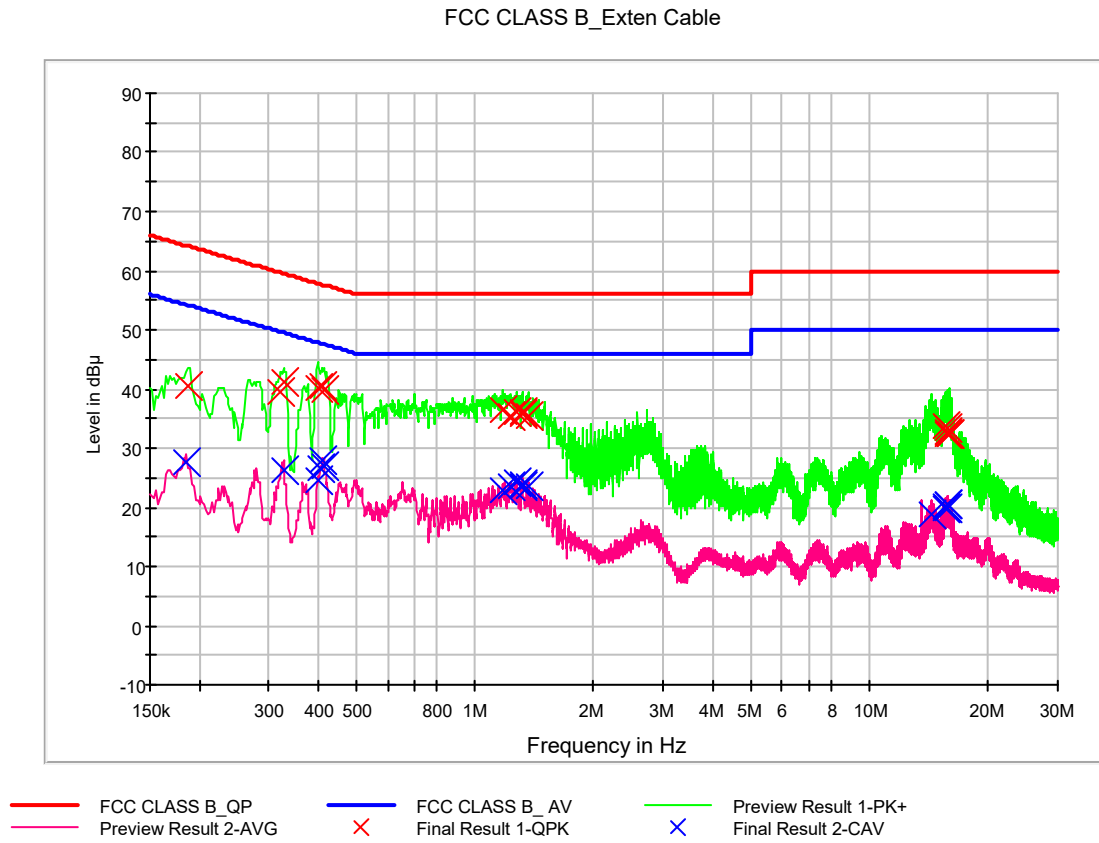


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.164000	25.0	9.000	L1	9.7	30.2	55.3
0.168000	25.6	9.000	L1	9.7	29.5	55.1
0.186000	27.7	9.000	L1	9.7	26.5	54.2
0.190000	25.6	9.000	L1	9.7	28.5	54.0
0.328000	27.5	9.000	L1	9.7	22.0	49.5
0.410000	29.8	9.000	L1	9.7	17.8	47.6
1.150000	23.9	9.000	L1	9.8	22.1	46.0
1.190000	23.9	9.000	L1	9.8	22.1	46.0
1.196000	24.1	9.000	L1	9.8	21.9	46.0
1.242000	24.1	9.000	L1	9.9	21.9	46.0
1.286000	24.0	9.000	L1	9.9	22.0	46.0
1.380000	21.6	9.000	L1	9.9	24.4	46.0
14.164000	18.3	9.000	L1	10.4	31.7	50.0
14.346000	17.9	9.000	L1	10.4	32.1	50.0
14.450000	18.0	9.000	L1	10.4	32.0	50.0
14.492000	17.9	9.000	L1	10.4	32.1	50.0
14.612000	16.9	9.000	L1	10.4	33.1	50.0
15.920000	18.2	9.000	L1	10.4	31.8	50.0



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





QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.188000	40.6	9.000	N	9.8	23.5	64.1
0.322000	39.5	9.000	N	9.9	20.1	59.7
0.328000	41.1	9.000	N	9.9	18.4	59.5
0.400000	40.1	9.000	N	9.9	17.8	57.9
0.410000	40.6	9.000	N	9.9	17.0	57.6
0.414000	39.8	9.000	N	9.9	17.8	57.6
1.176000	36.6	9.000	N	10.0	19.4	56.0
1.226000	35.4	9.000	N	10.0	20.6	56.0
1.270000	36.0	9.000	N	10.0	20.0	56.0
1.314000	35.8	9.000	N	10.0	20.2	56.0
1.318000	36.0	9.000	N	10.0	20.0	56.0
1.362000	35.6	9.000	N	10.1	20.4	56.0
15.638000	33.8	9.000	N	10.7	26.2	60.0
15.726000	32.7	9.000	N	10.7	27.3	60.0
15.758000	33.4	9.000	N	10.7	26.6	60.0
15.844000	32.4	9.000	N	10.7	27.6	60.0
15.860000	32.5	9.000	N	10.7	27.5	60.0
15.892000	32.3	9.000	N	10.7	27.7	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.186000	27.7	9.000	N	9.8	26.5	54.2
0.328000	26.1	9.000	N	9.9	23.4	49.5
0.400000	24.6	9.000	N	9.9	23.2	47.9
0.406000	26.8	9.000	N	9.9	21.0	47.7
0.410000	28.0	9.000	N	9.9	19.7	47.6
0.414000	27.1	9.000	N	9.9	20.5	47.6
1.178000	22.8	9.000	N	10.0	23.2	46.0
1.226000	23.4	9.000	N	10.0	22.6	46.0
1.270000	24.1	9.000	N	10.0	21.9	46.0
1.314000	23.7	9.000	N	10.0	22.3	46.0
1.318000	23.6	9.000	N	10.0	22.4	46.0
1.362000	23.4	9.000	N	10.1	22.6	46.0
14.344000	18.9	9.000	N	10.6	31.1	50.0
15.628000	19.9	9.000	N	10.7	30.1	50.0
15.638000	20.1	9.000	N	10.7	29.9	50.0
15.726000	19.8	9.000	N	10.7	30.2	50.0
15.752000	20.7	9.000	N	10.7	29.3	50.0
15.758000	20.7	9.000	N	10.7	29.3	50.0



5.2 Radiated Emission

The test results of radiated emission provide the following information:

For Measurement Below 1 GHz

Rule Part / Standard	FCC 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	22.9 °C
Relative Humidity	41.4 %
Test Date	April 12, 2019

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
35.683200	17.2	100.0	V	26.0	19.2	22.8	40.0
54.398400	18.5	100.0	V	0.0	19.9	21.5	40.0
64.596800	16.7	274.7	H	189.0	18.8	23.3	40.0
481.380000	23.9	116.8	V	96.0	24.9	22.1	46.0
654.667200	28.1	100.0	H	272.0	28.2	17.9	46.0
942.358400	32.1	274.9	H	293.0	32.0	13.9	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



For Measurement Above 1 GHz

Rule Part / Standard	FCC 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
Operating Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	24.2 °C
Relative Humidity	44.5 %
Test Date	April 17, 2019

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3520.185000	39.5	100.0	H	208.0	-20.7	34.5	74.0
5653.840000	38.8	249.8	H	92.0	-15.2	35.2	74.0
7420.710000	44.8	176.5	V	209.0	-9.7	29.2	74.0
9792.250000	47.0	150.1	V	61.0	-5.4	27.0	74.0
10614.810000	48.3	249.9	V	138.0	-3.4	25.7	74.0
14741.355000	48.4	125.8	V	109.0	0.8	25.6	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3520.185000	30.3	100.0	H	208.0	-20.7	23.7	54.0
5653.840000	26.3	249.8	H	92.0	-15.2	27.7	54.0
7420.710000	31.7	176.5	V	209.0	-9.7	22.3	54.0
9792.250000	34.6	150.1	V	61.0	-5.4	19.4	54.0
10614.810000	36.0	249.9	V	138.0	-3.4	18.0	54.0
14741.355000	36.1	125.8	V	109.0	0.8	17.9	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



6. 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.



7. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A