

# TEST REPORT

EMI Test for FCC Certification of LG L555DL Model

APPLICANT

LG Electronics USA, Inc.

REPORT NO.

HCT-EM-1912-FC003

DATE OF ISSUE

December 02, 2019

**HCT Co., Ltd.**

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FCC ID  
ZNFL555DL

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

Product Name Multi-band GSM/CDMA/WCDMA/LTE Phone with WLAN, Bluetooth  
Model Name LG L555DL  
Series Model Name Refer to the clause 1.1 Description of EUT

Travel Adaptor Information Model name: MCS-V02WR  
Manufacturer: SUNLIN

Date of Test November 22, 2019 to November 28, 2019

Test Standard Used FCC CFR 47 PART 15 Subpart B 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	December 02, 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 denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

This Test Report is not related to the accredited test result by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation), which signed the ILAC-MRA.

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## 1. GENERAL INFORMATION

### 1.1 Description of EUT

<b>FCC ID</b>	ZNFL555DL
<b>Model Name</b>	LG L555DL
<b>Series Model Name</b>	LG-L555DL, LM-K500UM, LM-K500QM, LM-K500QM5, LM-K500QM6 LGL555DL, LMK500UM, LMK500QM, LMK500QM5, LMK500QM6 L555DL, K500UM, K500QM, K500QM5, K500QM6
<b>Product Name</b>	Multi-band GSM/CDMA/WCDMA/LTE Phone with WLAN, Bluetooth
<b>TX Frequency</b>	824.70 MHz to 848.31 MHz (CDMA BC0) 1 851.25 MHz to 1 908.75 MHz (CDMA BC1) 817.90 MHz to 823.10 MHz (CDMA BC10) 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) 1 850 MHz to 1 915 MHz (LTE B25) 814 MHz to 849 MHz (LTE B26) 2 496 MHz to 2 690 MHz (LTE B41) 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) 5 180 MHz to 5 240 MHz (WiFi 5 GHz_UNII 1) 5 260 MHz to 5 320 MHz (WiFi 5 GHz_UNII 2A) 5 500 MHz to 5 720 MHz (WiFi 5 GHz_UNII 2C) 5 745 MHz to 5 825 MHz (WiFi 5 GHz_UNII 3)

RX Frequency	869.70 MHz to 893.31 MHz (CDMA BC0)
	1 931.25 MHz to 1 988.75 MHz (CDMA BC1)
	862.00 MHz to 894.00 MHz (CDMA BC10)
	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)
	1 925 MHz to 1 990 MHz (LTE B25)
	859 MHz to 894 MHz (LTE B26)
	2 496 MHz to 2 690 MHz (LTE B41)
	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)
	5 180 MHz to 5 240 MHz (WiFi 5 GHz_UNII 1)
	5 260 MHz to 5 320 MHz (WiFi 5 GHz_UNII 2A)
	5 500 MHz to 5 720 MHz (WiFi 5 GHz_UNII 2C)
	5 745 MHz to 5 825 MHz (WiFi 5 GHz_UNII 3)

## 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 L555DL	-	LG
Travel Adaptor	MCS-V02WR	-	SUNLIN
Data Cable	EAD64746105	-	KSD
Earphone	EAB64468444	-	CRESYN
Micro SD Card	SAMSUNG EVO+ microSDXC CLASS10 UHS- I (256GB)	-	SAMSUNG

## 1.3 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	USB Type C	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	USB Type C	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 accordance with the manufacturers recommendations for utilizing calibration equipment, which is traceable to recognized national standards. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5:2017

## 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)	1.8 dB
3 m Radiated Emissions (30 MHz to 1 GHz)	4.8 dB
3 m Radiated Emissions (1 GHz to 18 GHz)	5.4 dB
3 m Radiated Emissions (18 GHz to 40 GHz)	5.7 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

- 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.
- The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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.
- 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.
- 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

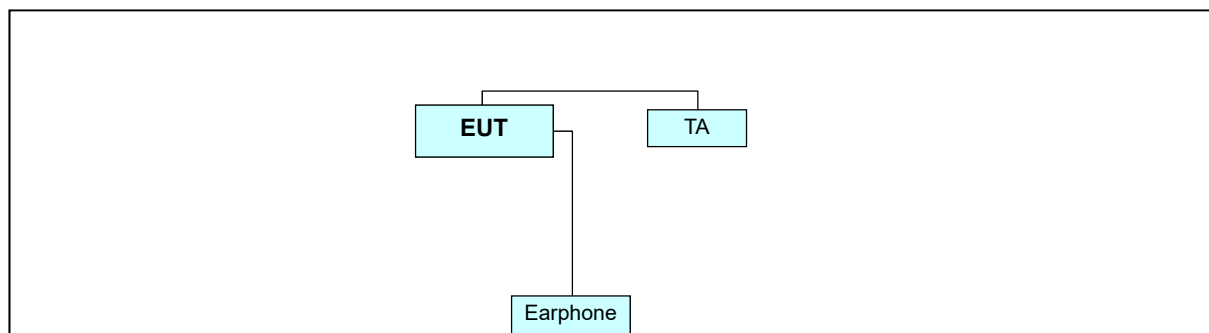
Frequency (MHz)	Class A			Class B		
	Antenna Distance (m)	Field Strength ( $\mu\text{V/m}$ )	Quasi-Peak (dB $\mu\text{V/m}$ )	Antenna Distance (m)	Field Strength ( $\mu\text{V/m}$ )	Quasi-Peak (dB $\mu\text{V/m}$ )
30 to 88	10	90	39.0	3	100	40.0
88 to 216	10	150	43.5	3	150	43.5
216 to 960	10	210	46.4	3	200	46.0
Above 960	10	300	49.5	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Class A		Class B		
		Peak (dB $\mu\text{V/m}$ )	Average (dB $\mu\text{V/m}$ )	Peak (dB $\mu\text{V/m}$ )	Average (dB $\mu\text{V/m}$ )	
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

### 2.3 Configuration of Tested System



Non-Conductive Table

Power Line: 120 VAC, 60 Hz

### 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
<input checked="" type="checkbox"/>	EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.18.2019
<input checked="" type="checkbox"/>	LISN	Rohde & Schwarz	ENV216	102245	1 year	12.12.2018
<input checked="" type="checkbox"/>	Software	Rohde & Schwarz	EMC32	-	-	-

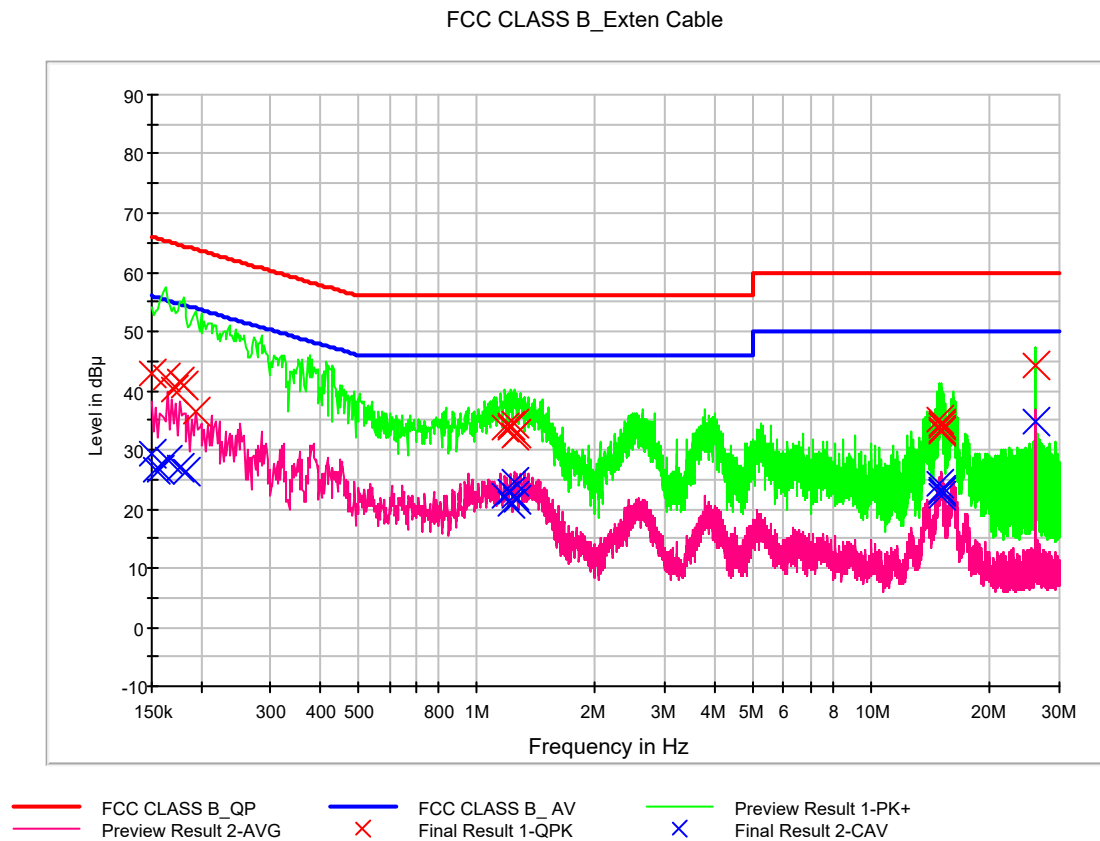
#### 4.1.2 Operating Condition

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

<b>Test Standard Used</b>	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
<b>Frequency Range</b>	150 kHz to 30 MHz
<b>Detector</b>	Quasi-Peak, CISPR-Average
<b>Bandwidth</b>	9 kHz (6 dB)
<b>Worst Case of Operating Mode</b>	FRONT CAMERA & MP3 mode
<b>Kind of Test Site</b>	EMI Shielded Room
<b>Temperature</b>	22.8 °C
<b>Relative Humidity</b>	41.7 %
<b>Test Date</b>	November 22, 2019

### 4.1.3 Measuring Data

Figure 1: Conducted Emission (150 kHz to 30 MHz), Line (L1)



## QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	42.8	9.000	L1	9.8	23.2	66.0
0.162000	42.1	9.000	L1	9.8	23.2	65.4
0.170000	40.2	9.000	L1	9.8	24.7	65.0
0.176000	41.7	9.000	L1	9.8	23.0	64.7
0.180000	40.7	9.000	L1	9.8	23.8	64.5
0.194000	36.6	9.000	L1	9.8	27.3	63.9
1.182000	33.8	9.000	L1	9.9	22.2	56.0
1.216000	33.8	9.000	L1	9.9	22.2	56.0
1.224000	34.1	9.000	L1	9.9	21.9	56.0
1.248000	34.5	9.000	L1	9.9	21.5	56.0
1.252000	32.2	9.000	L1	9.9	23.8	56.0
1.256000	32.8	9.000	L1	9.9	23.2	56.0
14.928000	35.1	9.000	L1	10.5	24.9	60.0
15.054000	34.3	9.000	L1	10.5	25.7	60.0
15.104000	34.2	9.000	L1	10.5	25.8	60.0
15.108000	33.5	9.000	L1	10.5	26.5	60.0
15.132000	33.1	9.000	L1	10.5	26.9	60.0
26.000000	44.2	9.000	L1	10.8	15.8	60.0

## Calculation Formula:

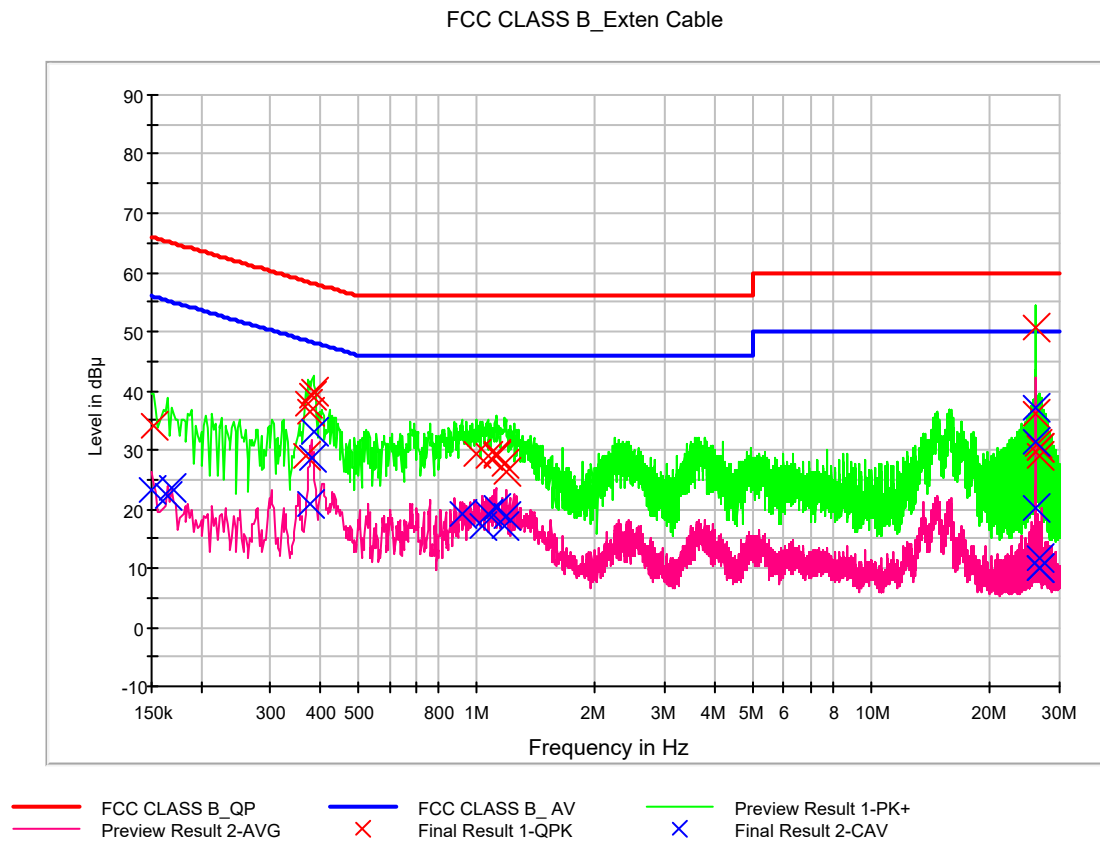
1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage= Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage

## CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	29.5	9.000	L1	9.8	26.5	56.0
0.154000	26.7	9.000	L1	9.8	29.1	55.8
0.158000	26.7	9.000	L1	9.8	28.8	55.6
0.164000	28.2	9.000	L1	9.8	27.1	55.3
0.176000	26.8	9.000	L1	9.8	27.9	54.7
0.182000	26.1	9.000	L1	9.8	28.3	54.4
1.182000	22.3	9.000	L1	9.9	23.7	46.0
1.216000	22.9	9.000	L1	9.9	23.1	46.0
1.222000	20.9	9.000	L1	9.9	25.1	46.0
1.248000	24.5	9.000	L1	9.9	21.5	46.0
1.252000	22.2	9.000	L1	9.9	23.8	46.0
1.256000	21.6	9.000	L1	9.9	24.4	46.0
14.928000	24.4	9.000	L1	10.5	25.6	50.0
15.054000	23.4	9.000	L1	10.5	26.6	50.0
15.104000	22.7	9.000	L1	10.5	27.3	50.0
15.108000	22.8	9.000	L1	10.5	27.2	50.0
15.132000	22.1	9.000	L1	10.5	27.9	50.0
26.000000	34.9	9.000	L1	10.8	15.1	50.0



Figure 2: Conducted Emission (150 kHz to 30 MHz), Line (N)



## QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	34.2	9.000	N	9.8	31.7	65.9
0.368000	28.9	9.000	N	9.8	29.6	58.5
0.374000	37.6	9.000	N	9.8	20.8	58.4
0.378000	36.5	9.000	N	9.8	21.9	58.3
0.382000	39.2	9.000	N	9.8	19.0	58.2
0.386000	39.7	9.000	N	9.8	18.4	58.1
0.994000	29.2	9.000	N	9.9	26.8	56.0
1.064000	29.0	9.000	N	9.9	27.0	56.0
1.116000	29.5	9.000	N	9.9	26.5	56.0
1.122000	28.9	9.000	N	9.9	27.1	56.0
1.178000	27.6	9.000	N	9.9	28.4	56.0
1.186000	26.2	9.000	N	9.9	29.8	56.0
26.000000	50.6	9.000	N	11.0	9.4	60.0
26.012000	36.2	9.000	N	11.0	23.8	60.0
26.414000	31.0	9.000	N	11.0	29.0	60.0
26.620000	29.0	9.000	N	11.0	31.0	60.0
26.626000	30.3	9.000	N	11.0	29.7	60.0
26.632000	30.5	9.000	N	11.0	29.5	60.0

CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	23.1	9.000	N	9.8	32.9	56.0
0.164000	22.2	9.000	N	9.8	33.0	55.3
0.168000	23.6	9.000	N	9.8	31.5	55.1
0.378000	21.0	9.000	N	9.8	27.3	48.3
0.382000	28.7	9.000	N	9.8	19.5	48.2
0.386000	32.9	9.000	N	9.8	15.3	48.1
0.914000	19.0	9.000	N	9.9	27.0	46.0
1.032000	17.2	9.000	N	9.9	28.8	46.0
1.064000	19.3	9.000	N	9.9	26.7	46.0
1.116000	20.2	9.000	N	9.9	25.8	46.0
1.182000	17.0	9.000	N	9.9	29.0	46.0
1.186000	18.7	9.000	N	9.9	27.4	46.0
26.000000	37.3	9.000	N	11.0	12.7	50.0
26.004000	31.5	9.000	N	11.0	18.5	50.0
26.012000	20.2	9.000	N	11.0	29.8	50.0
26.620000	11.6	9.000	N	11.0	38.4	50.0
26.626000	10.1	9.000	N	11.0	39.9	50.0
26.632000	9.9	9.000	N	11.0	40.1	50.0

## 4.2 Radiated Emission Below 1 GHz

### 4.2.1 Measuring instruments

	Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
<input checked="" type="checkbox"/>	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.17.2019
<input checked="" type="checkbox"/>	Trilog antenna	Schwarzbeck	VULB 9168	255	2 year	03.26.2019
<input checked="" type="checkbox"/>	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
<input checked="" type="checkbox"/>	Antenna master controller	INNCO Systems	CO 3000	CO3000/870/ 35990515/L	N/A	-
<input checked="" type="checkbox"/>	Turn Table	INNCO Systems	1060	-	N/A	-
<input checked="" type="checkbox"/>	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
<input checked="" type="checkbox"/>	Software	Rohde & Schwarz	EMC32	-	-	-

### 4.2.2 Operating Condition

The test results of radiated emission provide the following information:

<b>Used Test Standard</b>	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
<b>Frequency Range</b>	30 MHz to 1 000 MHz
<b>Detector</b>	Quasi-Peak
<b>Bandwidth</b>	120 kHz (6 dB)
<b>Worst Case of Operating Mode</b>	FRONT CAMERA & MP3 mode
<b>Kind of Test Site</b>	3 m semi anechoic chamber
<b>Temperature</b>	21.3 / 21.4 °C
<b>Relative Humidity</b>	42.5 / 42.2 %
<b>Test Date</b>	November 25, 2019 / November 28, 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)
32.411600	20.0	100.0	V	325.0	18.5	20.0	40.0
39.040800	32.7	100.0	V	0.0	18.9	7.3	40.0
51.983200	29.7	100.0	V	292.0	19.7	10.3	40.0
84.692400	23.3	225.1	H	105.0	15.1	16.7	40.0
665.432400	28.3	100.0	H	212.0	28.3	17.7	46.0
910.905400	31.7	100.0	V	207.0	31.7	14.3	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
<input checked="" type="checkbox"/>	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.17.2019
<input checked="" type="checkbox"/>	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
<input checked="" type="checkbox"/>	Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
<input checked="" type="checkbox"/>	Turn table	INNCO Systems	1060	-	N/A	-
<input checked="" type="checkbox"/>	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
<input checked="" type="checkbox"/>	Low Noise amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.04.2019
<input checked="" type="checkbox"/>	Horn antenna	Schwarzbeck	BBHA 9120D	01836	1 year	07.19.2019
<input checked="" type="checkbox"/>	Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	12.17.2018
<input checked="" type="checkbox"/>	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170 #786	2 year	12.05.2017
<input checked="" type="checkbox"/>	Software	Rohde & Schwarz	EMC32	-	-	-

#### 4.3.2 Operating Condition

The test results of radiated emission provide the following information:

<b>Used Test Standard</b>	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
<b>Detector</b>	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
<b>Highest Frequency</b>	5 825 MHz
<b>Tested Frequency Range</b>	1 GHz to 30 GHz
<b>Worst Case of Operating Mode</b>	FRONT CAMERA & MP3 mode
<b>Kind of Test Site</b>	3 m semi anechoic chamber
<b>Temperature</b>	21.4 °C
<b>Relative Humidity</b>	42.2 %
<b>Test Date</b>	November 28, 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)
3044.500000	35.5	350.0	H	96.0	-21.0	38.5	74.0
5683.170000	39.7	100.0	H	30.0	-15.0	34.3	74.0
7325.490000	44.6	139.6	H	332.0	-9.7	29.4	74.0
9715.265000	47.7	100.0	V	228.0	-5.1	26.3	74.0
10888.005000	49.1	150.0	H	263.0	-2.6	24.9	74.0
13215.290000	47.3	333.7	H	4.0	-1.9	26.7	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3044.500000	22.5	350.0	H	96.0	-21.0	31.5	54.0
5683.170000	26.6	100.0	H	30.0	-15.0	27.4	54.0
7325.490000	31.4	139.6	H	332.0	-9.7	22.6	54.0
9715.265000	34.9	100.0	V	228.0	-5.1	19.1	54.0
10888.005000	35.8	150.0	H	263.0	-2.6	18.2	54.0
13215.290000	33.8	333.7	H	4.0	-1.9	20.2	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 **Product Name: Multi-band GSM/CDMA/WCDMA/LTE Phone with WLAN, Bluetooth and Model Name: LG L555DL** complies with § 15.107 and § 15.109 of the FCC rules.

## 6. APPENDIX A. TEST SETUP PHOTO

Please refer to Appendix. A and test setup photo file no. as follows;

File No.	Date of Issue	Description
HCT-EM-1912-FC003-P	December 02, 2019	Initial Release

End of report