

TEST REPORT

EMI Test for FCC Certification of LM-X320APM

APPLICANT LG Electronics USA, Inc.

REPORT NO. HCT-EM-1906-FC001

DATE OF ISSUE June 04, 2019



HCT Co., Ltd.

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TEST REPORT EMITest for FCC Certification

REPORT NO. HCT-EM-1906-FC001

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FCC ID. ZNFX320APM

Applicant	LG Electronics USA, Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United Stats
Product Name Model Name Series Model Name	Multi-band GSM/EDGE/WCDMA/LTE Phone with WLAN and Bluetooth LM-X320APM Refer to the clause 1.1 Description of EUT
Date of Test	May 22, 2019 to June 03, 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

Technical Manager Jeong-Hyun Choi



REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	June 04, 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	ZNFX320APM
Model	LM-X320APM
Series Model Name	LMX320APM, X320APM, LM-X320CM, LMX320CM, X320CM, LM-X320AM8, LMX320AM8, X320AM8
EUT Type	Multi-band GSM/EDGE/WCDMA/LTE Phone with WLAN and Bluetooth
TX Frequency	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) 788 MHz to 798 MHz (LTE B14) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)
RX Frequency	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) 758 MHz to 768 MHz (LTE B14) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)

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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	LM-X320APM	-	LG
Data cable ^(*)	EAD62377921	-	Leagtech
Data cable ^(*)	EAD62377922	-	KSD
Data cable ^(*)	EAD62377927	-	NINGBO
Earphone	EAB64468444	-	CRESYN
Notebook PC	ProBook6560b	5CB2053MXF	HP
Notebook PC adaptor	Series PPP009L-E	-	LITE-ON Technology
Gateway	TL-WR747N	-	TP Link
Gateway adaptor	T090060-2H1	-	TP Link
Serial mouse	Serial 2 Button mouse	02031069	Radio Shack
RJ45 cable	-	-	-
Micro SD card	Extreme Micro SDHC UHS-1 CLASS 10 (32 GB)	-	SanDisk

^(*) The worst-cable emissions are reported.

1.3 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	Micro USB	Υ	Υ	(P,D) 1.0
EUI	Earphone	N/A	Z	(D) 1.2
	RJ 45	N/A	Z	(D) 1.6
Notebook PC	Serial(Mouse)	N/A	Υ	(D) 1.8
	DC IN	N	N/A	(P) 1.8
Gateway	DC IN	N	N/A	(P) 1.8

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

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

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
FLIT	Micro USB	N	N/A	Υ	Both End
EUT	Earphone	N	N/A	Υ	EUT End
	RJ 45	N	N/A	N	N/A
Notebook PC	Serial(Mouse)	N	N/A	Υ	Notebook PC 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	
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #1	KR0032
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).

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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

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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

Fraguency	Resolution	Clas	ss A	Class B		
Frequency (MHz)	Bandwidth (kHz)	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.

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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

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

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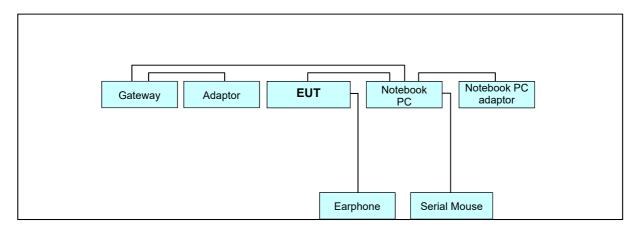


2.2.1 Frequency Range of Radiated Measurements

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



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

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3. PRELIMINARY TEST

3.1 Conducted Emission

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

Operating Modes: Data Communication mode

3.2 Radiated Emission

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

Operating Modes: Data Communication mode

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4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission

4.1.1 Measuring instruments

Туре		Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.25.2018
\boxtimes	LISN	Rohde & Schwarz	ENV216	102245	1 year	12.12.2018
\boxtimes	LISN	Rohde & Schwarz	ENV216	100073	1 year	04.30.2019
\boxtimes	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 ANSI C63.4-2014
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operating Mode	Data Communication mode
Worst Data cable	Ningbo (EAD62377927)
Kind of Test Site	Shielded Room
Temperature	24.3 °C
Relative Humidity	44.6 %
Test Date	May 28, 2019
Relative Humidity	44.6 %

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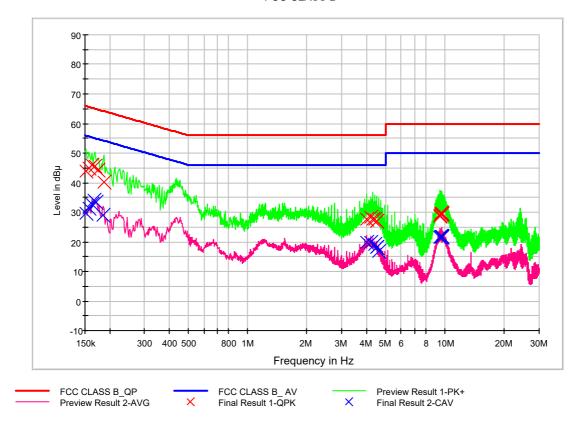
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4.1.3 Measuring Data

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

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QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	43.8	9.000	L1	9.6	22.0	65.9
0.158000	45.0	9.000	L1	9.6	20.6	65.6
0.162000	45.8	9.000	L1	9.6	19.5	65.4
0.168000	45.5	9.000	L1	9.6	19.6	65.1
0.174000	44.2	9.000	L1	9.6	20.6	64.8
0.188000	40.2	9.000	L1	9.7	23.9	64.1
4.014000	27.7	9.000	L1	9.8	28.3	56.0
4.216000	28.3	9.000	L1	9.8	27.7	56.0
4.318000	27.8	9.000	L1	9.8	28.2	56.0
4.420000	27.7	9.000	L1	9.8	28.3	56.0
4.520000	26.8	9.000	L1	9.8	29.2	56.0
4.524000	26.9	9.000	L1	9.8	29.1	56.0
9.384000	28.8	9.000	L1	10.0	31.2	60.0
9.472000	29.0	9.000	L1	10.0	31.0	60.0
9.488000	29.3	9.000	L1	10.0	30.7	60.0
9.576000	29.7	9.000	L1	10.0	30.3	60.0
9.592000	29.4	9.000	L1	10.0	30.6	60.0
9.694000	29.7	9.000	L1	10.0	30.3	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

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CAverage Final Result, Line (L1)

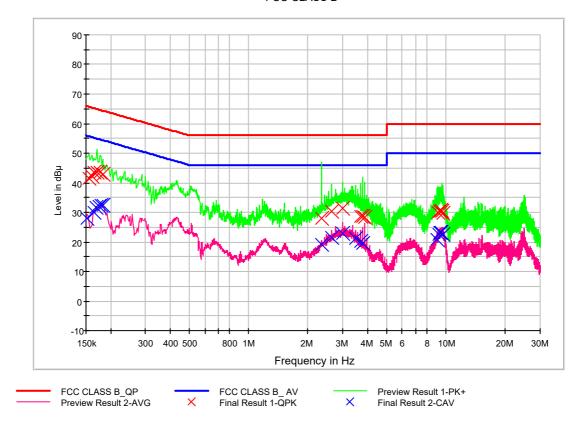
Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	29.7	9.000	L1	9.6	26.2	55.9
0.158000	31.5	9.000	L1	9.6	24.1	55.6
0.162000	32.7	9.000	L1	9.6	22.6	55.4
0.166000	33.9	9.000	L1	9.6	21.3	55.2
0.170000	33.4	9.000	L1	9.6	21.5	55.0
0.186000	28.9	9.000	L1	9.7	25.3	54.2
4.014000	19.9	9.000	L1	9.8	26.1	46.0
4.216000	19.9	9.000	L1	9.8	26.1	46.0
4.422000	19.1	9.000	L1	9.8	26.9	46.0
4.520000	18.1	9.000	L1	9.8	27.9	46.0
4.524000	18.2	9.000	L1	9.8	27.8	46.0
4.630000	16.7	9.000	L1	9.8	29.3	46.0
9.384000	21.7	9.000	L1	10.0	28.3	50.0
9.472000	21.6	9.000	L1	10.0	28.4	50.0
9.488000	21.9	9.000	L1	10.0	28.1	50.0
9.576000	21.9	9.000	L1	10.0	28.1	50.0
9.592000	21.6	9.000	L1	10.0	28.4	50.0
9.694000	22.0	9.000	L1	10.0	28.0	50.0

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

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QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.156000	41.6	9.000	N	9.6	24.1	65.7
0.160000	42.2	9.000	N	9.6	23.2	65.5
0.164000	43.4	9.000	N	9.6	21.8	65.3
0.170000	43.7	9.000	N	9.6	21.3	65.0
0.176000	43.5	9.000	N	9.6	21.2	64.7
0.182000	42.8	9.000	N	9.6	21.6	64.4
2.334000	28.1	9.000	N	9.7	27.9	56.0
2.646000	30.4	9.000	N	9.7	25.6	56.0
2.994000	31.4	9.000	N	9.8	24.6	56.0
3.682000	28.6	9.000	N	9.8	27.4	56.0
3.780000	28.8	9.000	N	9.8	27.2	56.0
3.882000	28.3	9.000	N	9.8	27.7	56.0
9.140000	30.1	9.000	N	9.9	29.9	60.0
9.306000	30.4	9.000	N	9.9	29.6	60.0
9.384000	30.6	9.000	N	9.9	29.4	60.0
9.428000	30.7	9.000	N	9.9	29.3	60.0
9.512000	30.2	9.000	N	9.9	29.8	60.0
9.614000	29.8	9.000	N	9.9	30.2	60.0

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CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	28.0	9.000	N	9.6	27.9	55.9
0.164000	30.1	9.000	N	9.6	25.2	55.3
0.168000	31.6	9.000	N	9.6	23.4	55.1
0.174000	32.1	9.000	N	9.6	22.6	54.8
0.178000	32.3	9.000	N	9.6	22.3	54.6
0.182000	32.2	9.000	N	9.6	22.2	54.4
2.334000	19.3	9.000	N	9.7	26.7	46.0
2.646000	21.5	9.000	N	9.7	24.5	46.0
2.994000	22.9	9.000	N	9.8	23.1	46.0
3.472000	21.2	9.000	N	9.8	24.8	46.0
3.682000	20.2	9.000	N	9.8	25.8	46.0
3.780000	19.5	9.000	N	9.8	26.5	46.0
8.962000	20.9	9.000	N	9.9	29.1	50.0
9.160000	22.5	9.000	N	9.9	27.5	50.0
9.306000	23.2	9.000	N	9.9	26.8	50.0
9.384000	23.3	9.000	N	9.9	26.7	50.0
9.428000	23.3	9.000	N	9.9	26.7	50.0
9.614000	22.5	9.000	N	9.9	27.5	50.0

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4.2 Radiated Emission Below 1 GHz

4.2.1 Measuring instruments

	Туре	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.17.2019
\boxtimes	Trilog antenna	Schwarzbeck	VULB 9168	255	2 year	03.26.2019
\boxtimes	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
\boxtimes	Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
\boxtimes	Turn Table	INNCO Systems	1060	-	N/A	-
\boxtimes	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
\boxtimes	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 ANSI C63.4-2014
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Operating Mode	Data Communication mode
Worst Data Cable	Ningbo (EAD62377927)
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.3 ℃
Relative Humidity	42.9 %
Test Date	May 22, 2019

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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)
30.789965	24.4	125.0	V	62.0	18.4	23.9	40.0
85.972000	18.8	225.0	Н	112.0	14.9	21.2	40.0
132.804000	21.2	100.0	V	338.0	18.5	21.7	43.5
265.582400	33.4	125.3	Н	324.0	19.3	12.6	46.0
599.998400	34.6	274.9	Н	253.0	27.4	11.4	46.0
800.026400	39.8	100.0	Н	236.0	30.4	6.2	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

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4.3 Radiated Emission Above 1 GHz

4.3.1 Measuring instruments

	Туре	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.17.2019
\boxtimes	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
\boxtimes	Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
\boxtimes	Turn table	INNCO Systems	1060	-	N/A	-
\boxtimes	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
\boxtimes	Horn antenna	Schwarzbeck	BBHA 9120D	01836	2 year	07.20.2018
\boxtimes	Low Noise amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.04.2019
\boxtimes	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 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	Data Communication mode
Worst Data Cable	Ningbo (EAD62377927)
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.5 °C
Relative Humidity	43.1 %
Test Date	June 03, 2019

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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)
1400.160000	48.4	199.6	V	0.0	-26.0	25.6	74.0
1994.495000	46.9	100.0	V	237.0	-25.2	27.1	74.0
2989.475000	41.5	150.0	V	152.0	-21.1	32.5	74.0
4497.750000	44.7	205.5	V	184.0	-17.5	29.3	74.0
5973.805000	42.6	100.0	V	301.0	-14.7	31.4	74.0
10234.920000	47.7	113.3	Н	294.0	-4.3	26.3	74.0

Frequency (MHz)	CAverage (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1400.160000	46.3	199.6	V	0.0	-26.0	7.7	54.0
1994.495000	21.5	100.0	V	237.0	-25.2	32.5	54.0
2989.475000	24.9	150.0	V	152.0	-21.1	29.1	54.0
4497.750000	27.6	205.5	V	184.0	-17.5	26.4	54.0
5973.805000	27.4	100.0	V	301.0	-14.7	26.6	54.0
10234.920000	35.2	113.3	Н	294.0	-4.3	18.8	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

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5. CONCLUSION

The data collected shows that the EUT Type: Multi-band GSM/EDGE/WCDMA/LTE Phone with WLAN and Bluetooth, Model: LM-X320APM complies with §15.107 and §15.109 of the FCC rules.

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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-1906-FC001-P	June 04, 2019	Initial Release

End of report

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