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EMI TEST REPORT
FCC CERTIFICATION

Applicant: **LG Electronics MobileComm U.S.A., Inc.** **1000 Sylvan Avenue, Englewood Cliffs NJ 07632** **Unite States**	**Date of Receipt: November 01, 2017** **Date of Issue: January 05, 2018** **Test Report No. HCT-EM-1801-FC004-R1**

FCC ID: **ZNFX210APM**

Rule Part(s) / Standard(s):	FCC CFR 47 PART 15 Subpart B Class B
FCC Classification:	JBP (Part 15 B – Class B Computing Device Peripheral)
EUT Type:	GSM/WCDMA/LTE phone with Bluetooth and WLAN
Model Name:	LM-X210APM
Additional Model Name:	LMX210APM, X210APM, LM-X210CM, LMX210CM, X210CM, LM-X210CMR, LMX210CMR, X210CMR
TA Model Name / Manufacturer:	MCS-02WAE / AOHAI
Date of Test:	November 06, 2017 – November 17, 2017

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

Tested By

Wook Yi
Test Engineer
EMC Team
Certification Division

Reviewed By

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Technical Manager
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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-1801-FC004	January 03, 2018	Initial Release Reissue of Report No. HCT-E-1711-F011 Changed the additional model name
HCT-EM-1801-FC004-R1	January 05, 2018	Added Additional Model Name

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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFX210APM
Model	LM-X210APM
Additional Model	LMX210APM, X210APM, LM-X210CM, LMX210CM, X210CM, LM-X210CMR, LMX210CMR, X210CMR
EUT Type	GSM/WCDMA/LTE phone with Bluetooth and WLAN
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) 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) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)

1.2 Related Submittal(s) / Grant(s)

Original submittal only.

1.3 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.

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	

1.4 Instrument Calibration

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).

1.5 Tested System Details

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

Device Type	Model Name	Serial Number	Manufacturer
EUT	LM-X210APM	-	LG
Data cable	EAD62377922	-	KSD
Earphone	EAB64168751	-	I-Sound
Travel adaptor	MCS-02WAE	-	AOHAI
Micro SD card	SanDisk Extreme 32 GB SD Card	-	SanDisk

1.6 Cable Description

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

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

1.7 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

2. 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 ($k = 2$)
Radiated Emissions (30 MHz to 1 GHz)	5.20 dB ($k = 2$)
Radiated Emissions (1 GHz to 18 GHz)	5.24 dB ($k = 2$)
Radiated Emissions (18 GHz to 40 GHz)	5.40 dB ($k = 2$)

3. DESCRIPTION OF TEST

3.1 Measurement of Conducted Emission

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

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 Limit]

Frequency (MHz)	Resolution Bandwidth (kHz)	Quasi-Peak (dBμV)	Average (dBμV)
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

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 detects 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]

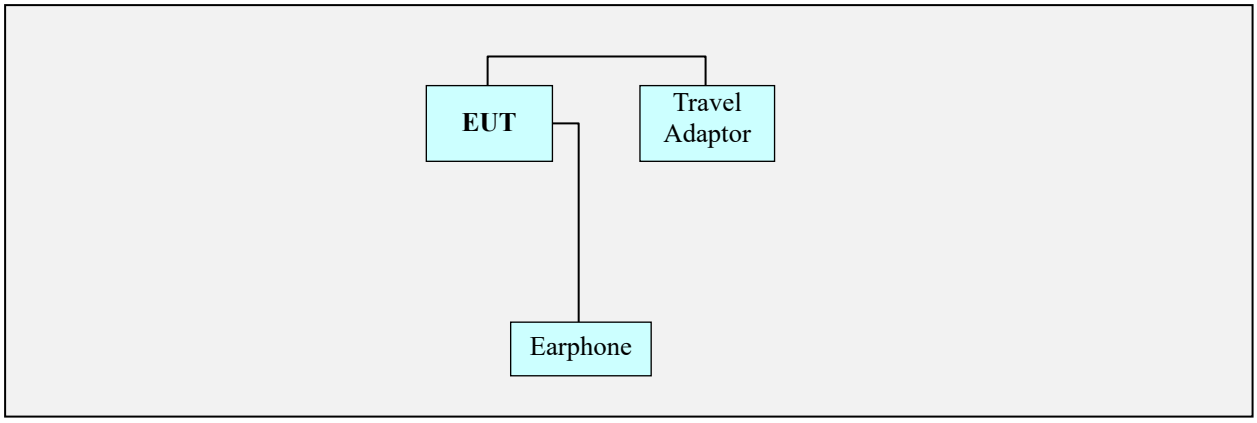
Frequency (MHz)	Antenna Distance (m)	Field Strength (μV/m)	Quasi-Peak (dBμV/m)
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Peak (dBμV/m)	Average (dBμV/m)
Above 1 000	3	74	54

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

3.3 Configuration of Tested System



Non-Conductive Table
Power Line: 120 VAC

4. PRELIMINARY TEST

4.1 Conducted Emission Test

During preliminary tests, the following operating mode was investigated:

Operation Mode: ☒ Camera (Front) & MP3 mode
☒ Camera (Rear) & FM Radio mode
☒ Idle mode

NOTE. *The worst-case emissions are reported.*

4.2 Radiated Emission Test

During preliminary tests, the following operating mode was investigated:

Operation Mode: ☒ Camera (Front) & MP3 mode
☒ Camera (Rear) & FM Radio mode
☒ Idle mode

NOTE. *The worst-case emissions are reported.*

5. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

5.1 Conducted Emission Test

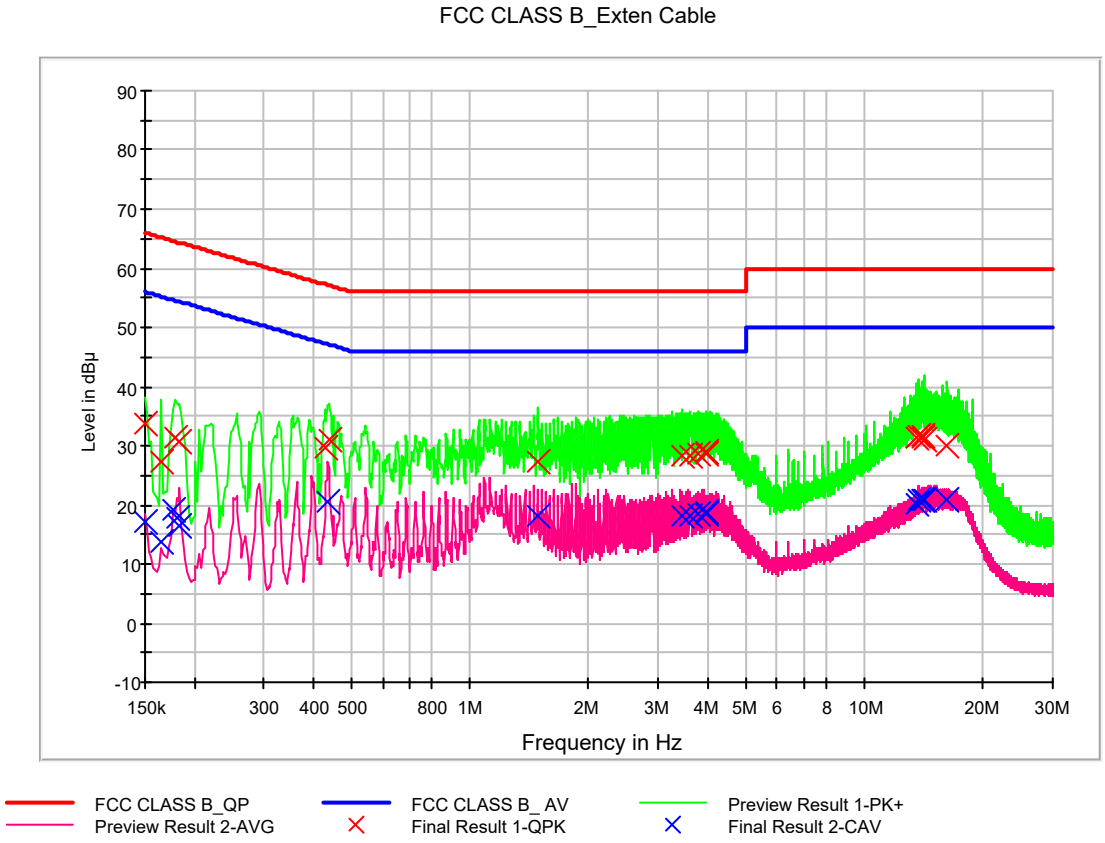
The test results of conducted emission at mains ports provide the following information:

Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Worst Case of Operation Mode	Camera (Front) & MP3 mode
Kind of Test Site	EMI Shielded Room
Temperature	22.0 / 22.0 °C
Relative Humidity	47.0 / 46.8 %
Test Date	November 15 / November 17, 2017

※ 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 (0.15 to 30) MHz, Line (L1)



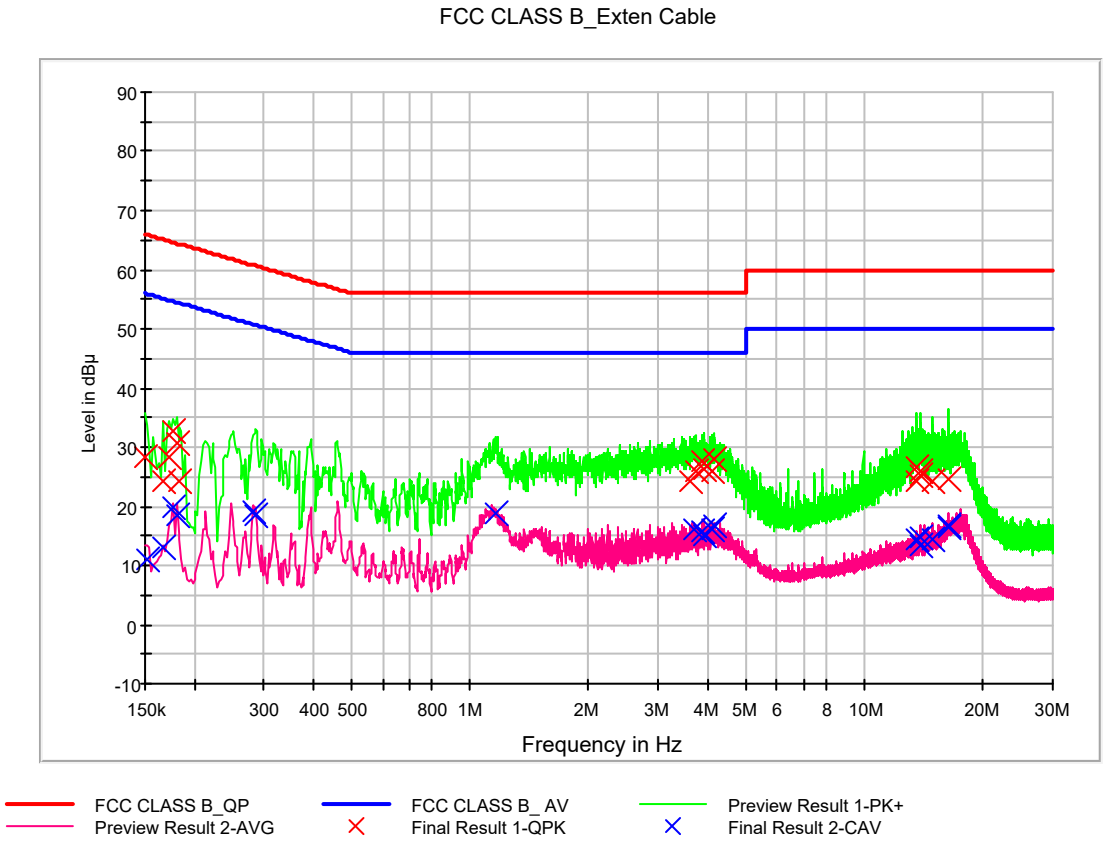
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	33.8	9.000	L1	9.7	32.2	66.0
0.164000	27.2	9.000	L1	9.7	38.1	65.3
0.178000	31.5	9.000	L1	9.7	33.1	64.6
0.184000	30.7	9.000	L1	9.7	33.6	64.3
0.430000	29.6	9.000	L1	9.7	27.6	57.3
0.438000	30.9	9.000	L1	9.7	26.2	57.1
1.488000	27.3	9.000	L1	9.8	28.7	56.0
3.440000	28.4	9.000	L1	9.9	27.6	56.0
3.624000	28.2	9.000	L1	10.0	27.8	56.0
3.806000	28.5	9.000	L1	10.0	27.5	56.0
3.980000	28.7	9.000	L1	10.0	27.3	56.0
3.984000	28.9	9.000	L1	10.0	27.1	56.0
13.552000	31.3	9.000	L1	10.5	28.7	60.0
13.718000	31.7	9.000	L1	10.5	28.3	60.0
14.002000	31.7	9.000	L1	10.5	28.3	60.0
14.052000	31.5	9.000	L1	10.5	28.5	60.0
14.144000	31.2	9.000	L1	10.5	28.8	60.0
16.234000	30.1	9.000	L1	10.6	30.0	60.0

CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	17.2	9.000	L1	9.7	38.8	56.0
0.164000	13.6	9.000	L1	9.7	41.6	55.3
0.176000	19.0	9.000	L1	9.7	35.6	54.7
0.180000	17.6	9.000	L1	9.7	36.8	54.5
0.184000	16.5	9.000	L1	9.7	37.9	54.3
0.436000	20.6	9.000	L1	9.7	26.5	47.1
1.488000	18.2	9.000	L1	9.8	27.8	46.0
3.440000	18.2	9.000	L1	9.9	27.8	46.0
3.624000	18.2	9.000	L1	10.0	27.8	46.0
3.806000	18.4	9.000	L1	10.0	27.6	46.0
3.980000	18.8	9.000	L1	10.0	27.2	46.0
3.984000	18.5	9.000	L1	10.0	27.5	46.0
13.552000	20.3	9.000	L1	10.5	29.7	50.0
13.718000	20.7	9.000	L1	10.5	29.3	50.0
14.002000	20.9	9.000	L1	10.5	29.1	50.0
14.052000	20.8	9.000	L1	10.5	29.2	50.0
14.144000	20.8	9.000	L1	10.5	29.2	50.0
16.234000	20.8	9.000	L1	10.6	29.2	50.0

Figure 2: Conducted Emission (0.15 to 30) MHz, Line (N)



QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	28.4	9.000	N	9.7	37.6	66.0
0.166000	24.1	9.000	N	9.7	41.0	65.2
0.172000	28.4	9.000	N	9.7	36.5	64.9
0.176000	32.7	9.000	N	9.7	32.0	64.7
0.180000	30.8	9.000	N	9.7	33.7	64.5
0.184000	24.4	9.000	N	9.7	39.9	64.3
3.624000	24.3	9.000	N	9.9	31.7	56.0
3.720000	25.8	9.000	N	9.9	30.2	56.0
3.892000	27.8	9.000	N	9.9	28.2	56.0
3.930000	26.4	9.000	N	9.9	29.6	56.0
4.126000	26.0	9.000	N	9.9	30.0	56.0
4.132000	27.9	9.000	N	9.9	28.1	56.0
13.484000	24.2	9.000	N	10.5	35.8	60.0
13.606000	26.5	9.000	N	10.5	33.5	60.0
13.902000	26.1	9.000	N	10.5	33.9	60.0
13.906000	25.1	9.000	N	10.5	34.9	60.0
14.952000	24.2	9.000	N	10.6	35.8	60.0
16.414000	24.7	9.000	N	10.7	35.3	60.0

CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	10.9	9.000	N	9.7	45.0	55.9
0.166000	13.1	9.000	N	9.7	42.0	55.2
0.176000	19.7	9.000	N	9.7	35.0	54.7
0.180000	18.5	9.000	N	9.7	36.0	54.5
0.282000	19.2	9.000	N	9.7	31.5	50.8
0.286000	18.5	9.000	N	9.7	32.1	50.6
1.158000	18.8	9.000	N	9.8	27.2	46.0
3.714000	16.1	9.000	N	9.9	29.9	46.0
3.892000	15.8	9.000	N	9.9	30.2	46.0
3.930000	15.0	9.000	N	9.9	31.0	46.0
4.126000	16.0	9.000	N	9.9	30.0	46.0
4.134000	16.8	9.000	N	9.9	29.2	46.0
13.482000	14.3	9.000	N	10.5	35.7	50.0
13.902000	14.8	9.000	N	10.5	35.2	50.0
13.906000	13.5	9.000	N	10.5	36.5	50.0
14.952000	14.3	9.000	N	10.6	35.7	50.0
16.410000	16.9	9.000	N	10.7	33.1	50.0
16.414000	16.5	9.000	N	10.7	33.5	50.0

5.2 Radiated Emission Test

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
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Worst Case of Operation Mode	Camera (Front) & MP3 mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.6 / 23.3 °C
Relative Humidity	50.1 / 49.8 %
Test Date	November 06 / November 08, 2017

Frequency (MHz)	Quasi Peak (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
41.253600	22.8	115.0	V	356.0	22.8	17.2	40.0
44.532800	22.7	100.0	V	242.0	23.0	17.3	40.0
62.296000	22.0	400.0	H	37.0	22.4	18.0	40.0
98.858400	19.2	392.0	V	24.0	18.5	24.3	43.5
191.183200	26.4	100.0	V	10.0	21.0	17.1	43.5
254.893600	27.2	201.0	H	94.0	22.4	18.8	46.0

※ Calculation Formula:

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

-For Measurement Above 1 GHz

Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Operating Frequency	2 480 MHz
Upper Frequency	1 GHz to 12.4 GHz
Worst Case of Operation Mode	Camera (Front) & MP3 mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	21.3 / 21.5 / 21.8 °C
Relative Humidity	47.5 / 47.2 / 47.0 %
Test Date	November 14 / November 15 / November 16, 2017

Frequency (MHz)	Peak (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1019.577600	36.3	290.8	V	56.0	-14.0	37.7	74.0
1494.265000	32.7	149.9	H	284.0	-12.6	41.3	74.0
2011.365000	34.3	348.7	H	288.0	-11.8	39.7	74.0
2639.140000	35.3	249.7	V	44.0	-9.4	38.7	74.0
4624.500000	40.0	263.6	H	198.0	-5.2	34.0	74.0
4917.950000	40.1	399.7	H	251.0	-4.9	33.9	74.0

Frequency (MHz)	CAverage (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1019.577600	27.8	290.8	V	56.0	-14.0	26.2	54.0
1494.265000	20.2	149.9	H	284.0	-12.6	33.8	54.0
2011.365000	21.3	348.7	H	288.0	-11.8	32.7	54.0
2639.140000	22.8	249.7	V	44.0	-9.4	31.2	54.0
4624.500000	26.7	263.6	H	198.0	-5.2	27.3	54.0
4917.950000	27.0	399.7	H	251.0	-4.9	27.0	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

6. LIST OF TEST EQUIPMENT

	Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	CAL Date
Conducted Emission						
☐	EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.20.2017
☒	EMI Test Receiver	Rohde & Schwarz	ESCI	100033	1 year	06.27.2017
☐	LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	05.22.2017
☐	LISN	Rohde & Schwarz	ENV216	100073	1 year	12.23.2016
☒	LISN	Rohde & Schwarz	ENV216	100073	1 year	07.18.2017
☒	Software	Rohde & Schwarz	EMC32 VER8.54.0	-	-	-
Radiated Emission						
-For measurement below 1 GHz						
☒	EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	08.16.2017
☒	Trilog Antenna	Schwarzbeck	VULB 9168	760	2 year	04.06.2017
☒	Antenna master	HD GmbH	MA240	240/520	N/A	-
☒	Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☒	Turn Table	INNCO Systems	-	-	N/A	-
☒	Turn Table controller	INNCO Systems	CO2000	-	N/A	-
☐	EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.16.2017
☐	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	08.16.2017
☐	Antenna master	HD GmbH	MA240	240/520	N/A	-
☐	Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☒	Antenna master	INNCO Systems	MA4000-XP-ET	48709515	N/A	-
☒	Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515	N/A	-
☒	Turn Table	INNCO Systems	-	-	N/A	-
☒	Turn Table controller	INNCO Systems	CO2000	-	N/A	-
☒	Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.01.2017
☐	Power Amplifier	CERNEX	CBL18265035	21873	1 year	01.19.2017
☐	Power Amplifier	CERNEX	CBL26405040	19660	1 year	07.11.2017
☒	Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.12.2016
☐	Power Amplifier	CERNEX	CBLU1183540	21691	1 year	06.28.2017
☐	Horn Antenna	Schwarzbeck	BBHA 9120D	1300	2 year	06.30.2017
☐	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170124	2 year	04.25.2017
☐	EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.16.2017
☐	Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒	Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-

7. CONCLUSION

The data collected shows that the **EUT Type: GSM/WCDMA/LTE phone with Bluetooth and WLAN, Model: LM-X210APM, FCC ID: ZNFX210APM** complies with §15.107 and §15.109 of the FCC rules.

8. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A