

EMI TEST REPORT FCC CERTIFICATION

Applicant:

LG Electronics MobileComm U.S.A., Inc.
1000 Sylvan Avenue, Englewood Cliffs NJ 07632
United States

Date of Receipt: May 29, 2018

Date of Issue: June 01, 2018

Test Report No. HCT-EM-1806-FC002

FCC ID :

ZNFX210JM

Rule Part(s) / Standard(s) : 47 CFR PART 15 Subpart B Class B, ANSI C63.4-2014
FCC Classification : JBP (Part 15 B – Class B Computing Device Peripheral)
EUT Type : GSM/WCDMA/LTE Phone with Bluetooth4.2LE, WIFI802.11
b/g/n
Model Name : LM-X210JM
Additional Model Name : LMX210JM, X210JM
Date of Test : May 29, 2018 – May 30, 2018

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

Tested By



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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-1806-FC002	June 01, 2018	Initial Release



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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFX210JM
Model	LM-X210JM
Additional Model	LMX210JM, X210JM
EUT Type	GSM/WCDMA/LTE Phone with Bluetooth4.2LE, WIFI802.11 b/g/n
TX Frequency	824 MHz to 849 MHz (GSM 850) 1 850 MHz to 1 910 MHz (GSM 1 900) 1 850 MHz to 1 910 MHz (WCDMA B2) 824 MHz to 849 MHz (WCDMA B5) 824 MHz to 849 MHz (LTE B5) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)
RX Frequency	869 MHz to 894 MHz (GSM 850) 1 930 MHz to 1 990 MHz (GSM 1 900) 1 930 MHz to 1 990 MHz (WCDMA B2) 869 MHz to 894 MHz (WCDMA B5) 869 MHz to 894 MHz (LTE B5) 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. 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	

1.4 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).



1.5 Tested System Details

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

Device Type	Model Name	Serial Number	Manufacturer	FCC ID / DoC
EUT	LM-X210JM	-	LG	ZNFX210JM
Data Cable	EAD62377927	-	Ningbo Broad	-
Earphone	EAB64468444	-	CRESYN	-
Notebook PC	ProBook6560b	5CB2053MXF	HP	DoC
Notebook PC adaptor	Series PPP009L-E	-	LITE-On Technology	-
RJ45 cable	-	-	-	-
Gateway	TL-WR747N	-	TP-LINK	-
Gateway adaptor	T090060-2H1	-	TP-LINK	-
Serial mouse	Serial 2 button mouse	02031069	Radio shack	FSUGMZE3
Micro SD card	Extreme MicroSDHC UHS-I CLASS 10 (32 GB)	-	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,D)1.0
	Earphone	N/A	Y	(D)1.2
Notebook PC	RJ 45	N/A	N	(D)1.6
	Serial (Mouse)	N/A	Y	(D)1.8
	DC in	N	N/A	(P)1.8
Gateway	DC in	N	N/A	(P)1.8

* 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
Notebook PC	RJ 45	N	N/A	N	N/A
	Serial (Mouse)	N	N/A	Y	Notebook PC 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, 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 ($\mu\text{V}/\text{m}$)	Quasi-Peak ($\text{dB}(\mu\text{V})/\text{m}$)
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 ($\text{dB}(\mu\text{V})/\text{m}$)	Average ($\text{dB}(\mu\text{V})/\text{m}$)
Above 1 000	3	74	54

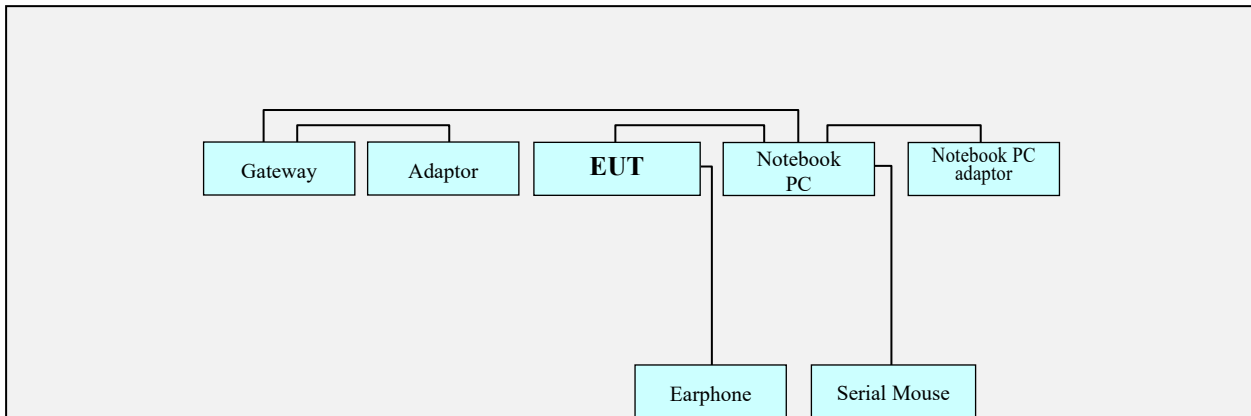


3.2.1 Frequency Range of Radiated Measurements

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 Test

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

Operation Mode: Data Communication mode

4.2 Radiated Emission Test

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

Operation Mode: Data Communication mode



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:

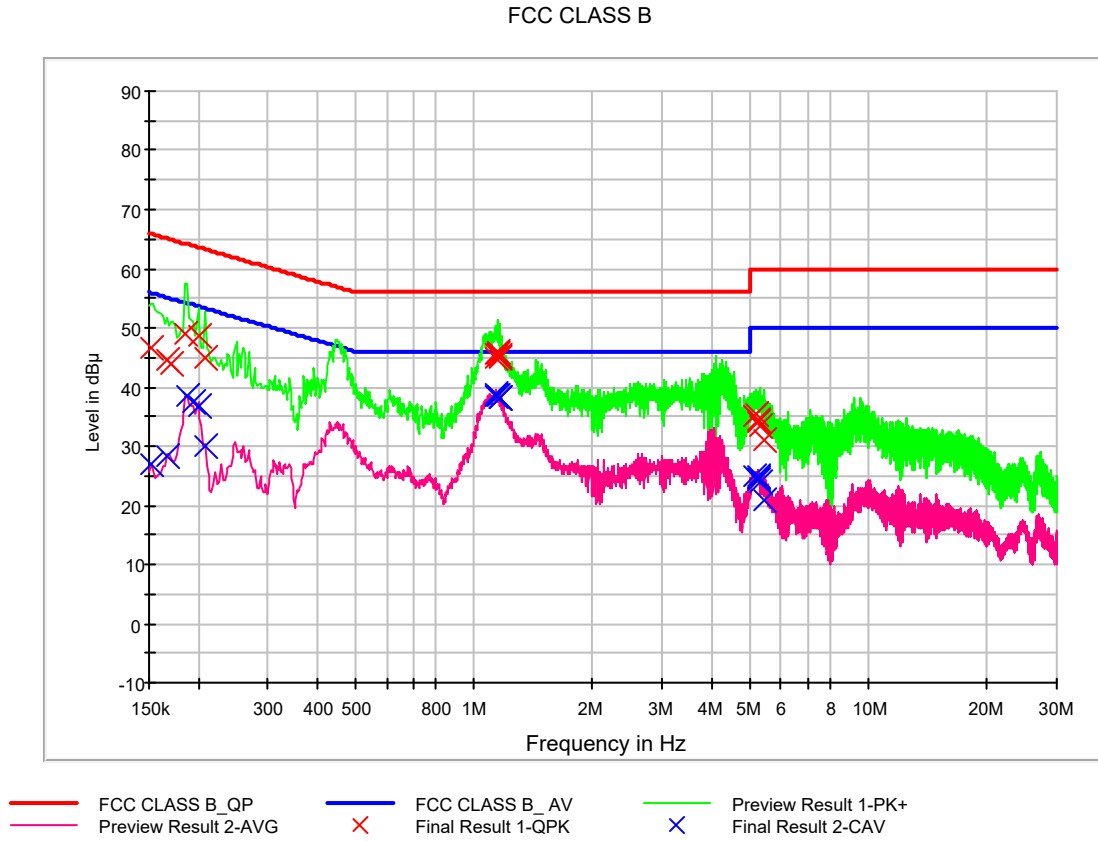
Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Kind of Test Site	Shielded Room
Temperature	24.0 °C
Relative Humidity	46.7 %
Test Date	May 30, 2018

- 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)
0.152000	46.4	9.000	L1	9.6	19.4	65.9
0.166000	44.6	9.000	L1	9.6	20.6	65.2
0.170000	43.9	9.000	L1	9.6	21.0	65.0
0.186000	49.0	9.000	L1	9.6	15.2	64.2
0.200000	48.7	9.000	L1	9.6	14.9	63.6
0.208000	44.8	9.000	L1	9.6	18.5	63.3
1.132000	45.0	9.000	L1	9.7	11.0	56.0
1.136000	45.7	9.000	L1	9.7	10.3	56.0
1.142000	45.5	9.000	L1	9.7	10.5	56.0
1.148000	45.9	9.000	L1	9.7	10.1	56.0
1.158000	44.9	9.000	L1	9.7	11.1	56.0
1.164000	45.3	9.000	L1	9.7	10.7	56.0
5.156000	35.1	9.000	L1	9.8	24.9	60.0
5.216000	35.4	9.000	L1	9.8	24.6	60.0
5.224000	33.9	9.000	L1	9.8	26.1	60.0
5.274000	34.3	9.000	L1	9.8	25.7	60.0
5.286000	33.3	9.000	L1	9.8	26.7	60.0
5.436000	31.1	9.000	L1	9.8	28.9	60.0

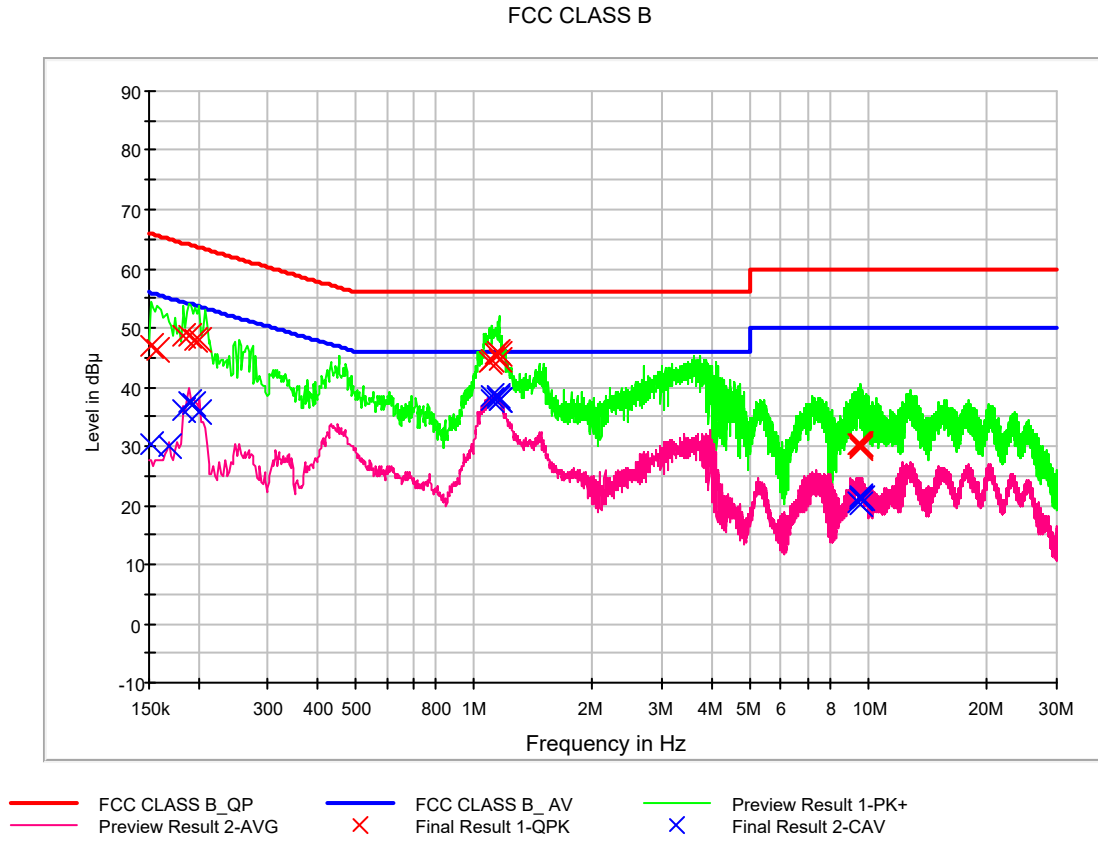


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	26.9	9.000	L1	9.6	29.0	55.9
0.166000	28.3	9.000	L1	9.6	26.9	55.2
0.188000	38.5	9.000	L1	9.6	15.6	54.1
0.194000	37.6	9.000	L1	9.6	16.3	53.9
0.200000	36.8	9.000	L1	9.6	16.8	53.6
0.208000	29.9	9.000	L1	9.6	23.4	53.3
1.132000	38.4	9.000	L1	9.7	7.6	46.0
1.136000	38.8	9.000	L1	9.7	7.2	46.0
1.142000	38.5	9.000	L1	9.7	7.5	46.0
1.156000	38.2	9.000	L1	9.7	7.8	46.0
1.160000	38.2	9.000	L1	9.7	7.8	46.0
1.164000	38.2	9.000	L1	9.7	7.8	46.0
5.156000	24.9	9.000	L1	9.8	25.1	50.0
5.230000	24.2	9.000	L1	9.8	25.8	50.0
5.260000	25.1	9.000	L1	9.8	24.9	50.0
5.274000	24.5	9.000	L1	9.8	25.5	50.0
5.286000	24.0	9.000	L1	9.8	26.0	50.0
5.436000	20.7	9.000	L1	9.8	29.3	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)
0.152000	47.0	9.000	N	9.6	18.9	65.9
0.158000	46.2	9.000	N	9.6	19.4	65.6
0.184000	48.5	9.000	N	9.6	15.8	64.3
0.190000	48.5	9.000	N	9.6	15.6	64.0
0.196000	48.1	9.000	N	9.6	15.7	63.8
0.200000	48.0	9.000	N	9.6	15.6	63.6
1.096000	44.4	9.000	N	9.7	11.6	56.0
1.106000	44.7	9.000	N	9.7	11.3	56.0
1.140000	45.7	9.000	N	9.7	10.3	56.0
1.148000	45.8	9.000	N	9.7	10.2	56.0
1.156000	45.4	9.000	N	9.7	10.6	56.0
1.162000	44.5	9.000	N	9.7	11.5	56.0
9.464000	30.4	9.000	N	10.0	29.6	60.0
9.488000	29.9	9.000	N	10.0	30.1	60.0
9.522000	30.4	9.000	N	10.0	29.6	60.0
9.554000	30.5	9.000	N	10.0	29.5	60.0
9.560000	30.3	9.000	N	10.0	29.7	60.0
9.576000	29.8	9.000	N	10.0	30.2	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	30.4	9.000	N	9.6	25.4	55.9
0.168000	30.0	9.000	N	9.6	25.1	55.1
0.184000	36.1	9.000	N	9.6	18.2	54.3
0.190000	37.6	9.000	N	9.6	16.4	54.0
0.194000	37.1	9.000	N	9.6	16.8	53.9
0.202000	35.8	9.000	N	9.6	17.8	53.5
1.106000	37.9	9.000	N	9.7	8.1	46.0
1.112000	38.4	9.000	N	9.7	7.6	46.0
1.144000	38.2	9.000	N	9.7	7.8	46.0
1.148000	38.4	9.000	N	9.7	7.6	46.0
1.156000	38.0	9.000	N	9.7	8.0	46.0
1.162000	37.9	9.000	N	9.7	8.1	46.0
9.464000	20.5	9.000	N	10.0	29.5	50.0
9.488000	20.3	9.000	N	10.0	29.7	50.0
9.522000	21.1	9.000	N	10.0	28.9	50.0
9.554000	21.5	9.000	N	10.0	28.5	50.0
9.576000	21.1	9.000	N	10.0	28.9	50.0
9.610000	21.3	9.000	N	10.0	28.7	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)
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.2 °C
Relative Humidity	42.1 %
Test Date	May 29, 2018

Frequency (MHz)	Quasi Peak (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
54.225600	29.2	99.9	V	166.0	20.1	10.8	40.0
81.260000	28.8	393.8	H	101.0	15.5	11.2	40.0
499.992000	35.9	125.0	V	224.0	25.2	10.1	46.0
600.020800	40.8	99.7	V	345.0	27.5	5.2	46.0
875.007200	39.3	99.9	H	220.0	30.9	6.7	46.0
999.812400	46.2	192.9	V	1.0	32.1	7.8	54.0

- 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
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
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.2 °C
Relative Humidity	42.1 %
Test Date	May 29, 2018

Frequency (MHz)	Peak (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
1220.175000	34.9	189.4	V	29.0	-29.0	39.1	74.0
1994.095000	48.1	291.4	V	53.0	-27.0	25.9	74.0
2662.200000	49.8	249.9	V	29.0	-23.9	24.2	74.0
4481.430000	43.5	176.5	V	4.0	-19.7	30.5	74.0
5998.310000	42.5	338.6	V	106.0	-16.5	31.5	74.0
9251.795000	43.1	248.4	V	53.0	-11.1	30.9	74.0

Frequency (MHz)	CAverage (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
1220.175000	18.9	189.4	V	29.0	-29.0	35.1	54.0
1994.095000	22.7	291.4	V	53.0	-27.0	31.3	54.0
2662.200000	22.4	249.9	V	29.0	-23.9	31.6	54.0
4481.430000	26.9	176.5	V	4.0	-19.7	27.1	54.0
5998.310000	26.8	338.6	V	106.0	-16.5	27.2	54.0
9251.795000	30.0	248.4	V	53.0	-11.1	24.0	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

<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>					
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.20.2017
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100033	1 year	06.27.2017
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	102245	1 year	12.20.2017
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	100073	1 year	07.18.2017
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER8.54.0	-	-	-
<u>Radiated Emission</u>					
-For measurement below 1 GHz					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	08.16.2017
<input checked="" type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB 9168	760	2 year	04.06.2017
<input checked="" type="checkbox"/> Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	N/A	-
<input checked="" type="checkbox"/> Turn Table	INNCO Systems	-	-	N/A	-
<input checked="" type="checkbox"/> Turn Table controller	INNCO Systems	CO2000	-	N/A	-
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.16.2017
<input type="checkbox"/> Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-
-For measurement above 1 GHz					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	08.16.2017
<input checked="" type="checkbox"/> Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	N/A	-
<input checked="" type="checkbox"/> Turn Table	INNCO Systems	-	-	N/A	-
<input checked="" type="checkbox"/> Turn Table controller	INNCO Systems	CO2000	-	N/A	-
<input checked="" type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.12.2016
<input checked="" type="checkbox"/> Low Noise Amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.06.2018
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170#786	2 year	12.05.2017
<input type="checkbox"/> Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	12.20.2017
<input type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input type="checkbox"/> Power Amplifier	CERNEX	CBLU1183540	21691	1 year	06.28.2017
<input type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	1300	2 year	06.30.2017
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.16.2017
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-



7. CONCLUSION

The data collected shows that the **EUT Type: GSM/WCDMA/LTE Phone with Bluetooth4.2LE, WIFI802.11 b/g/n, FCC ID: ZNFX210JM, Model: LM-X210JM** complies with §15.107 and §15.109 of the FCC rules.



8. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A