

# 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: January 19, 2018****Date of Issue: April 05, 2018****Test Report No. HCT-EM-1802-FC011-R1****FCC ID :****ZNFX410TK**

Rule Part(s) / Standard(s) : FCC CFR 47 PART 15 Subpart B Class B  
FCC Classification : JAB (Part 15B – Class B Digital Device)  
EUT Type : Multi-band GSM/WCDMA/LTE Phone with BT and WLAN  
Model Name : LM-X410TK  
Additional Model Name : LMX410TK, X410TK  
Travel Adaptor Information : Model: MCS-04WRE / Manufacturer: SUNLIN  
Date of Test : February 05, 2018 / April 05, 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

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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-1802-FC011	February 22, 2018	Initial Release
HCT-EM-1802-FC011-R1	April 05, 2018	Retesting radiated emission due to the change tested system configuration (Clause 5.2 Radiated Emission)



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## 1. GENERAL INFORMATION

### 1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFX410TK
Model	LM-X410TK
Additional Model	LMX410TK, X410TK
EUT Type	Multi-band GSM/WCDMA/LTE Phone with BT 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) 1 850.7 MHz to 1 909.3 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) 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	869.20 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) 2 110 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 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-X410TK	-	LG	ZNFX410TK
Data cable	EAD63769722	-	CRESYN	-
Earphone	EAB64168741	-	CRESYN	-
Travel adaptor	MCS-04WRE	-	SUNLIN	-
Micro SD card	256GB EVO+UHS-I microSDXC U1	-	SAMSUNG	-

## 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  $U_{\text{CISPR}}$  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

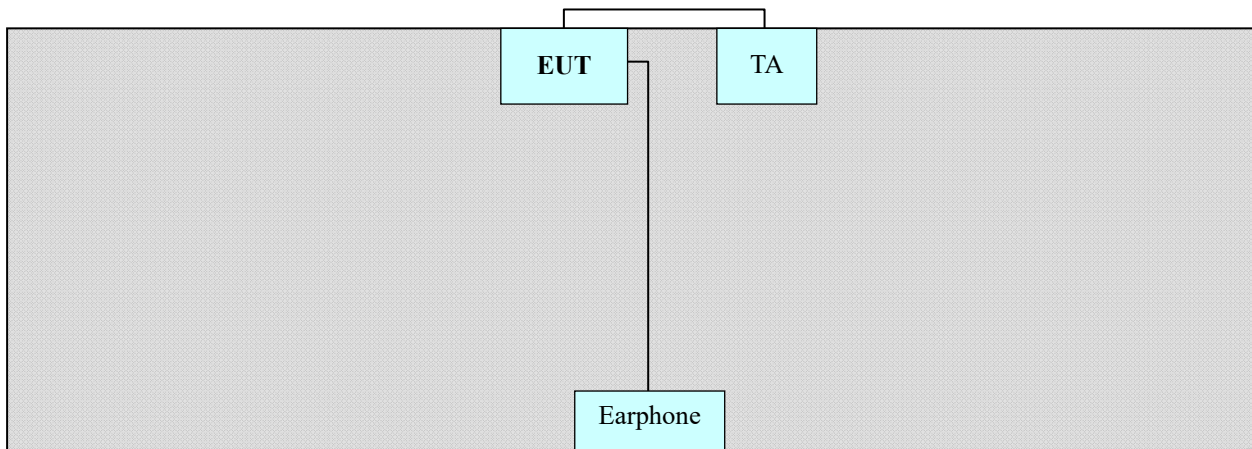


### 3.2.1 Frequency Range of Radiated Measurements

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 <sup>th</sup> 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

It was tested Data Communication mode, after connecting all peripheral devices.

**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

It was tested Data Communication mode, after connecting all peripheral devices.

**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:

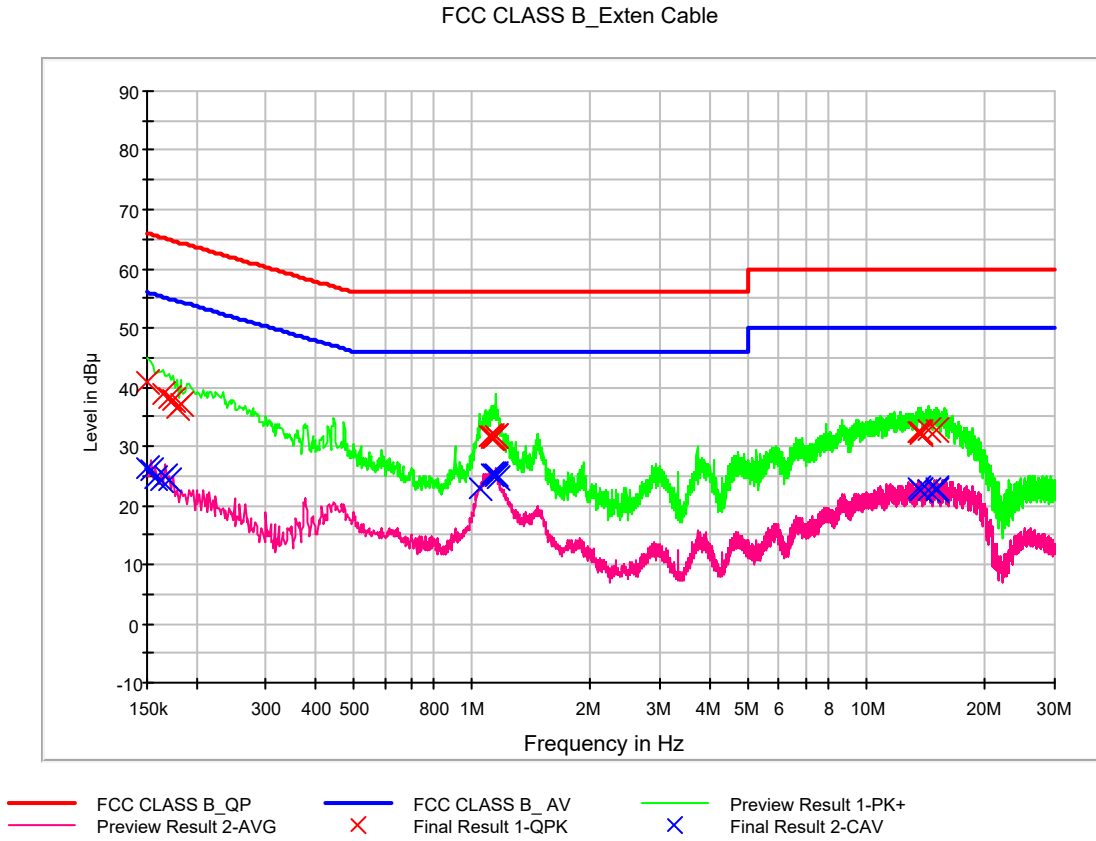
Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operation Mode	Camera (Rear) & FM Radio mode
Kind of Test Site	Shielded Room
Temperature	21.1 °C
Relative Humidity	34.6 %
Test Date	February 05, 2018

#### *- 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)
0.150000	40.8	9.000	L1	9.7	25.2	66.0
0.164000	38.7	9.000	L1	9.7	26.6	65.3
0.170000	38.1	9.000	L1	9.7	26.8	65.0
0.174000	37.7	9.000	L1	9.7	27.0	64.8
0.178000	36.5	9.000	L1	9.7	28.0	64.6
0.182000	37.2	9.000	L1	9.7	27.2	64.4
1.106000	31.7	9.000	L1	9.8	24.3	56.0
1.124000	31.6	9.000	L1	9.8	24.4	56.0
1.128000	31.3	9.000	L1	9.8	24.7	56.0
1.136000	31.5	9.000	L1	9.8	24.5	56.0
1.146000	31.7	9.000	L1	9.8	24.3	56.0
1.154000	31.6	9.000	L1	9.8	24.4	56.0
13.548000	32.4	9.000	L1	10.2	27.6	60.0
13.588000	32.5	9.000	L1	10.2	27.5	60.0
13.628000	32.4	9.000	L1	10.2	27.6	60.0
13.674000	32.2	9.000	L1	10.2	27.8	60.0
14.330000	32.6	9.000	L1	10.2	27.4	60.0
15.028000	32.6	9.000	L1	10.3	27.4	60.0

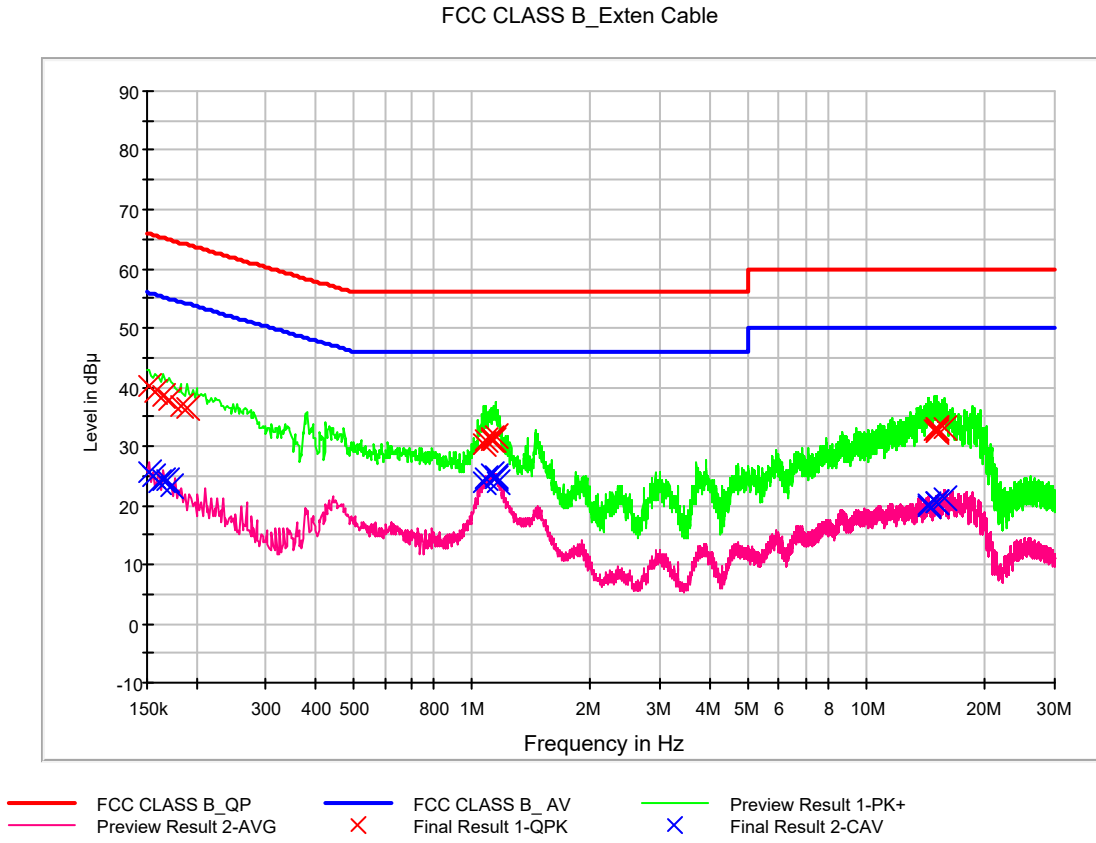


### CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	26.2	9.000	L1	9.7	29.8	56.0
0.154000	25.9	9.000	L1	9.7	29.8	55.8
0.158000	24.6	9.000	L1	9.7	30.9	55.6
0.162000	24.3	9.000	L1	9.7	31.1	55.4
0.166000	25.0	9.000	L1	9.7	30.1	55.2
0.170000	24.3	9.000	L1	9.7	30.6	55.0
1.044000	22.8	9.000	L1	9.8	23.2	46.0
1.122000	25.2	9.000	L1	9.8	20.8	46.0
1.136000	25.2	9.000	L1	9.8	20.8	46.0
1.144000	25.2	9.000	L1	9.8	20.8	46.0
1.152000	24.8	9.000	L1	9.8	21.2	46.0
1.162000	24.5	9.000	L1	9.8	21.5	46.0
13.588000	22.8	9.000	L1	10.2	27.2	50.0
13.628000	22.7	9.000	L1	10.2	27.3	50.0
13.674000	22.6	9.000	L1	10.2	27.4	50.0
14.330000	22.7	9.000	L1	10.2	27.3	50.0
15.088000	22.7	9.000	L1	10.3	27.3	50.0
15.096000	22.6	9.000	L1	10.3	27.4	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	40.3	9.000	N	9.7	25.6	65.9
0.158000	39.0	9.000	N	9.7	26.5	65.6
0.164000	38.3	9.000	N	9.7	26.9	65.3
0.170000	37.7	9.000	N	9.7	27.2	65.0
0.182000	36.8	9.000	N	9.7	27.6	64.4
0.190000	36.4	9.000	N	9.7	27.7	64.0
1.070000	30.2	9.000	N	9.8	25.8	56.0
1.086000	30.9	9.000	N	9.8	25.1	56.0
1.118000	31.0	9.000	N	9.8	25.0	56.0
1.122000	31.2	9.000	N	9.8	24.8	56.0
1.132000	31.1	9.000	N	9.8	24.9	56.0
1.148000	31.6	9.000	N	9.8	24.4	56.0
14.874000	32.8	9.000	N	10.5	27.2	60.0
14.962000	32.3	9.000	N	10.5	27.7	60.0
14.988000	33.2	9.000	N	10.5	26.8	60.0
15.050000	32.9	9.000	N	10.5	27.1	60.0
15.072000	32.7	9.000	N	10.5	27.3	60.0
15.788000	33.1	9.000	N	10.5	26.9	60.0



## CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	25.7	9.000	N	9.7	30.2	55.9
0.156000	25.0	9.000	N	9.7	30.7	55.7
0.160000	23.9	9.000	N	9.7	31.5	55.5
0.164000	24.3	9.000	N	9.7	30.9	55.3
0.168000	24.4	9.000	N	9.7	30.7	55.1
0.172000	23.1	9.000	N	9.7	31.8	54.9
1.070000	24.0	9.000	N	9.8	22.0	46.0
1.086000	24.6	9.000	N	9.8	21.4	46.0
1.122000	25.1	9.000	N	9.8	20.9	46.0
1.148000	24.9	9.000	N	9.8	21.1	46.0
1.152000	24.6	9.000	N	9.8	21.4	46.0
1.164000	24.1	9.000	N	9.8	21.9	46.0
14.368000	20.2	9.000	N	10.4	29.8	50.0
14.440000	19.7	9.000	N	10.4	30.3	50.0
14.962000	20.4	9.000	N	10.5	29.6	50.0
14.988000	20.5	9.000	N	10.5	29.5	50.0
15.072000	20.6	9.000	N	10.5	29.4	50.0
15.778000	21.4	9.000	N	10.5	28.6	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)
Operation Mode	Camera (Rear) & FM Radio mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.1 °C
Relative Humidity	46.1 %
Test Date	April 05, 2018

Frequency (MHz)	Quasi Peak (dB $\mu$ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
34.248000	26.8	99.9	V	0.0	19.1	13.2	40.0
91.368000	24.0	225.3	H	311.0	14.5	19.5	43.5
114.526400	20.1	225.1	V	293.0	17.2	23.4	43.5
162.168000	19.9	99.7	V	254.0	20.0	23.6	43.5
584.788800	26.5	115.8	V	244.0	27.1	19.5	46.0
848.547200	30.4	116.9	V	300.0	30.7	15.6	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
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Operating Frequency	5 825 MHz
Upper Frequency	1 GHz to 29.125 GHz
Operation Mode	Camera (Rear) & FM Radio mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.1 °C
Relative Humidity	46.1 %
Test Date	April 05, 2018

Frequency (MHz)	Peak (dB $\mu$ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
2029.660000	33.8	174.6	H	179.0	-26.9	40.2	74.0
3229.050000	33.3	149.9	V	116.0	-22.6	40.7	74.0
4941.745000	37.1	149.9	V	101.0	-18.4	36.9	74.0
6859.075000	40.1	160.7	V	311.0	-14.0	33.9	74.0
8420.220000	41.5	350.0	H	155.0	-12.0	32.5	74.0
9266.195000	42.3	160.5	V	332.0	-11.1	31.7	74.0

Frequency (MHz)	CAverage (dB $\mu$ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
2029.660000	19.4	174.6	H	179.0	-26.9	34.6	54.0
3229.050000	20.6	149.9	V	116.0	-22.6	33.4	54.0
4941.745000	23.8	149.9	V	101.0	-18.4	30.2	54.0
6859.075000	27.3	160.7	V	311.0	-14.0	26.7	54.0
8420.220000	29.2	350.0	H	155.0	-12.0	24.8	54.0
9266.195000	29.7	160.5	V	332.0	-11.1	24.3	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 type="checkbox"/> LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	05.22.2017
<input 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	MA4000-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	MA4000-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"/> Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.01.2017
<input checked="" type="checkbox"/> Low Noise Amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.06.2018
<input checked="" type="checkbox"/> Power Amplifier	TK-PA1840H	TESTEK	170030-L	1 year	12.20.2017
<input checked="" type="checkbox"/> Horn Antenna	BBHA 9120D	Schwarzbeck	296	2 year	10.12.2016
<input checked="" type="checkbox"/> Horn Antenna	BBHA 9170	Schwarzbeck	BBHA9170#786	2 year	12.05.2017
<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: Multi-band GSM/WCMTA/LTE Phone with BT and WLAN, Model: LM-X410TK, FCC ID: ZNFX410TK** complies with §15.107 and §15.109 of the FCC rules.



## 8. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A