

# 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: February 19, 2018****Date of Issue: March 26, 2018****Test Report No. HCT-EM-1803-FC031****FCC ID :****ZNFQ610ZA**

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 Bluetooth4.2LE, WIFI802.11 b/g/n  
Model Name : LM-Q610ZA  
Additional Model Name : LMQ610ZA, Q610ZA, LM-Q610ZAW, LMQ610ZAW, Q610ZAW,  
LM-Q610ZM, LMQ610ZM, Q610ZM, LM-Q610ZMW,  
LMQ610ZMW, Q610ZMW  
Date of Test : March 21, 2018 – March 22, 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-1803-FC031	March 26, 2018	Initial Release



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## 1. GENERAL INFORMATION

### 1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFQ610ZA
Model	LM-Q610ZA
Additional Model	LMQ610ZA, Q610ZA, LM-Q610ZAW, LMQ610ZAW, Q610ZAW, LM-Q610ZM, LMQ610ZM, Q610ZM, LM-Q610ZMW, LMQ610ZMW, Q610ZMW
EUT Type	GSM/WCDMA/LTE Phone with Bluetooth4.2LE, WIFI802.11 b/g/n
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) 826.40 MHz to 846.60 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	869.20 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) 871.40 MHz to 891.60 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 1GHz) 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-Q610ZA	-	LG	ZNFQ610ZA
Data cable	EAD64746101	-	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	T120150-2H1	-	TP-LINK	-
Serial mouse	Serial 2 button mouse	02031069	Radio shack	FSUGMZE3
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	USB Type C	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	USB Type C	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  $U_{\text{CISPR}}$  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 ( $k = 2$ )
3 m Radiated Emissions (30 MHz to 1 GHz)	5.20 dB ( $k = 2$ )
3 m Radiated Emissions (1 GHz to 18 GHz)	5.24 dB ( $k = 2$ )
3 m 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

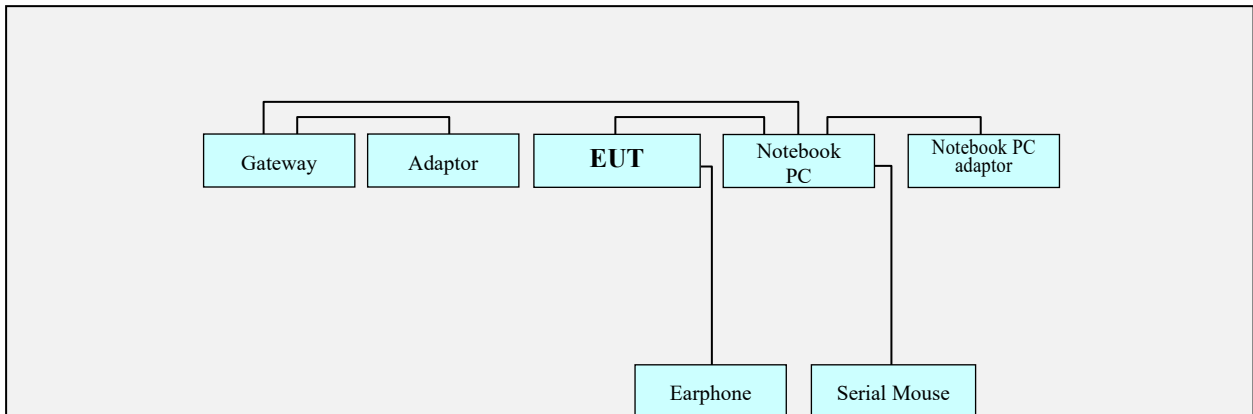


### 3.2.1 Frequency Range of Radiated Measurements

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, 60 Hz



## 4. PRELIMINARY TEST

### 4.1 Conducted Emission Test

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

**Operation Mode:**       Data Communication mode

### 4.2 Radiated Emission Test

It was tested Data Communication 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:

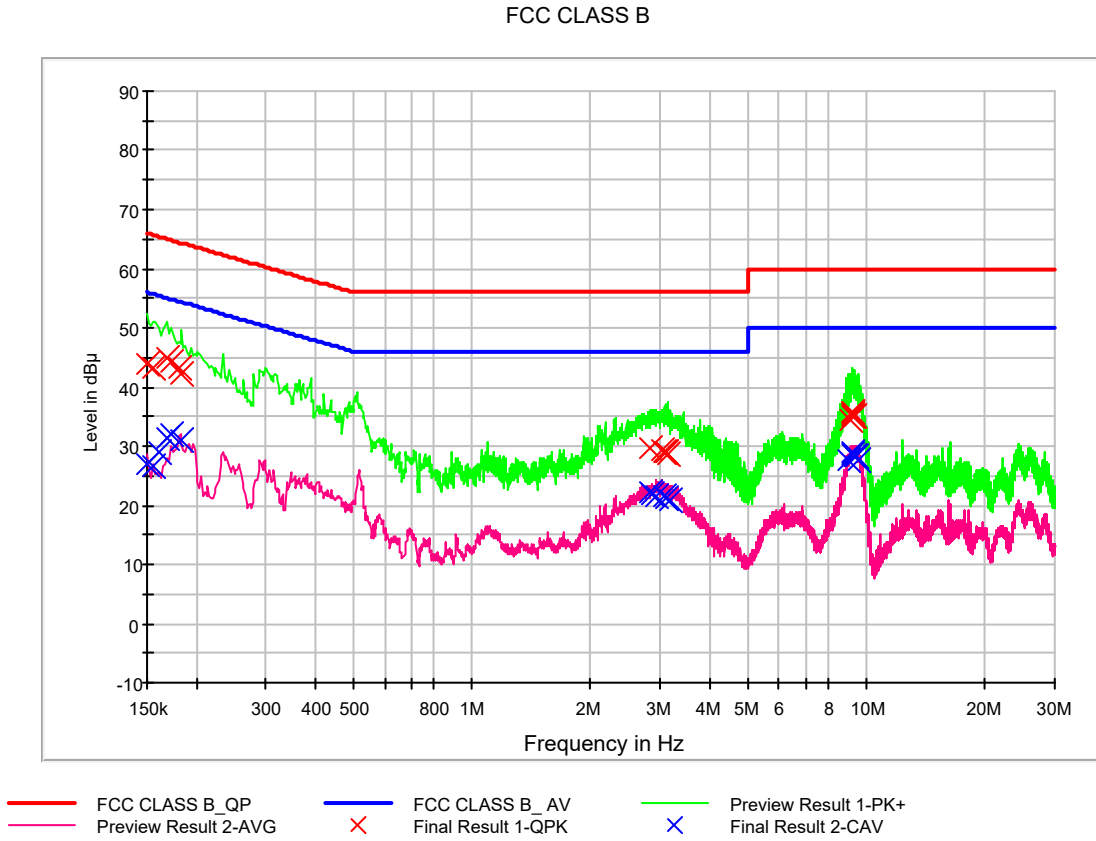
Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operation Mode	Data Communication mode
Kind of Test Site	Shielded Room
Temperature	22.8 °C
Relative Humidity	38.9 %
Test Date	March 22, 2018

#### *- 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	43.7	9.000	L1	9.6	22.3	66.0
0.156000	43.1	9.000	L1	9.6	22.6	65.7
0.168000	44.8	9.000	L1	9.6	20.3	65.1
0.172000	44.2	9.000	L1	9.6	20.6	64.9
0.180000	43.2	9.000	L1	9.6	21.3	64.5
0.184000	42.3	9.000	L1	9.6	22.0	64.3
2.810000	29.8	9.000	L1	9.8	26.2	56.0
3.022000	29.3	9.000	L1	9.8	26.7	56.0
3.062000	29.1	9.000	L1	9.8	26.9	56.0
3.086000	28.9	9.000	L1	9.8	27.1	56.0
3.090000	28.8	9.000	L1	9.8	27.2	56.0
3.152000	28.6	9.000	L1	9.8	27.4	56.0
9.060000	34.4	9.000	L1	9.9	25.6	60.0
9.160000	35.6	9.000	L1	9.9	24.4	60.0
9.196000	35.4	9.000	L1	9.9	24.6	60.0
9.210000	35.0	9.000	L1	9.9	25.0	60.0
9.234000	35.7	9.000	L1	9.9	24.3	60.0
9.330000	35.0	9.000	L1	9.9	25.0	60.0



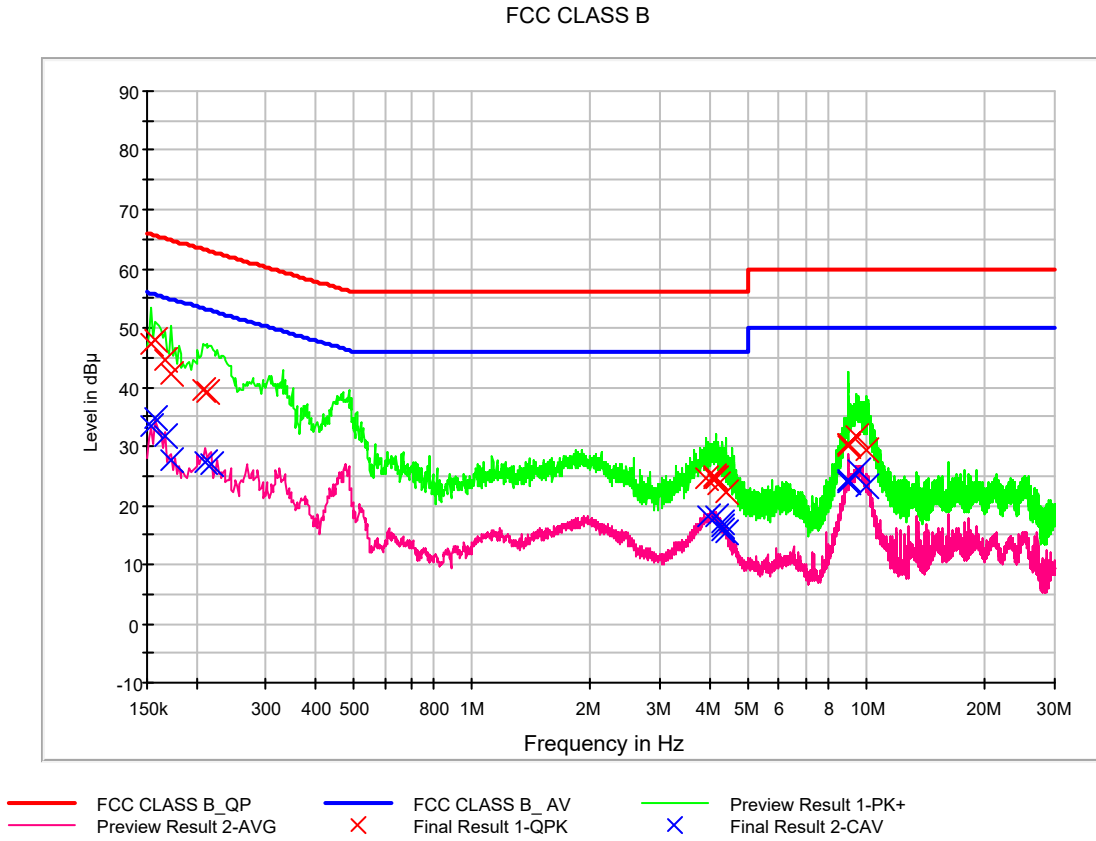
### CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	26.9	9.000	L1	9.6	29.1	56.0
0.156000	26.7	9.000	L1	9.6	29.0	55.7
0.160000	28.9	9.000	L1	9.6	26.5	55.5
0.168000	31.4	9.000	L1	9.6	23.6	55.1
0.172000	32.0	9.000	L1	9.6	22.9	54.9
0.182000	30.9	9.000	L1	9.6	23.5	54.4
2.810000	22.1	9.000	L1	9.8	23.9	46.0
2.858000	21.8	9.000	L1	9.8	24.2	46.0
2.912000	21.6	9.000	L1	9.8	24.4	46.0
3.084000	21.6	9.000	L1	9.8	24.4	46.0
3.088000	21.0	9.000	L1	9.8	25.0	46.0
3.192000	20.7	9.000	L1	9.8	25.3	46.0
9.046000	27.7	9.000	L1	9.9	22.3	50.0
9.186000	28.9	9.000	L1	9.9	21.1	50.0
9.222000	28.6	9.000	L1	9.9	21.4	50.0
9.330000	28.4	9.000	L1	9.9	21.6	50.0
9.432000	28.1	9.000	L1	9.9	21.9	50.0
9.516000	27.5	9.000	L1	9.9	22.5	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)
0.154000	47.4	9.000	N	9.6	18.4	65.8
0.158000	48.0	9.000	N	9.6	17.6	65.6
0.166000	44.4	9.000	N	9.6	20.7	65.2
0.172000	42.1	9.000	N	9.6	22.7	64.9
0.208000	39.6	9.000	N	9.6	23.7	63.3
0.212000	39.0	9.000	N	9.6	24.1	63.1
3.932000	24.5	9.000	N	9.8	31.5	56.0
4.090000	24.4	9.000	N	9.8	31.6	56.0
4.102000	24.8	9.000	N	9.8	31.2	56.0
4.134000	24.7	9.000	N	9.8	31.4	56.0
4.226000	23.7	9.000	N	9.8	32.3	56.0
4.406000	22.2	9.000	N	9.8	33.8	56.0
9.020000	30.0	9.000	N	10.0	30.0	60.0
9.026000	30.3	9.000	N	10.0	29.7	60.0
9.032000	30.2	9.000	N	10.0	29.8	60.0
9.042000	30.4	9.000	N	10.0	29.6	60.0
9.392000	31.8	9.000	N	10.0	28.2	60.0
9.994000	29.3	9.000	N	10.0	30.7	60.0



## CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	33.4	9.000	N	9.6	22.4	55.8
0.158000	34.9	9.000	N	9.6	20.7	55.6
0.166000	31.6	9.000	N	9.6	23.5	55.2
0.172000	27.7	9.000	N	9.6	27.2	54.9
0.210000	27.3	9.000	N	9.6	25.9	53.2
0.218000	26.8	9.000	N	9.6	26.1	52.9
3.962000	18.0	9.000	N	9.8	28.0	46.0
4.134000	18.0	9.000	N	9.8	28.0	46.0
4.290000	17.0	9.000	N	9.8	29.0	46.0
4.298000	16.5	9.000	N	9.8	29.5	46.0
4.326000	15.9	9.000	N	9.8	30.1	46.0
4.406000	15.3	9.000	N	9.8	30.7	46.0
9.016000	24.2	9.000	N	10.0	25.8	50.0
9.020000	23.8	9.000	N	10.0	26.2	50.0
9.026000	24.1	9.000	N	10.0	25.9	50.0
9.034000	23.8	9.000	N	10.0	26.2	50.0
9.562000	25.8	9.000	N	10.0	24.2	50.0
9.994000	23.2	9.000	N	10.0	26.8	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	Data Communication mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.1 °C
Relative Humidity	37.9 %
Test Date	March 21, 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)
30.109930	29.3	117.8	V	78.0	18.7	10.7	40.0
74.681600	24.9	99.7	V	0.0	16.9	15.1	40.0
133.271200	31.5	99.7	V	282.0	19.0	12.0	43.5
240.513600	28.6	99.7	H	283.0	18.4	17.4	46.0
266.540000	32.6	133.8	H	142.0	19.4	13.4	46.0
789.659200	30.2	400.0	H	1.0	30.1	15.8	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	2 480 MHz
Upper Frequency	1 GHz to 12.4 GHz
Operation Mode	Data Communication mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.8 °C
Relative Humidity	38.3 %
Test Date	March 22, 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)
1147.505000	46.7	202.4	V	30.0	-29.1	27.3	74.0
1498.930000	44.6	335.5	V	0.0	-28.3	29.4	74.0
1997.000000	54.1	99.8	V	46.0	-27.0	19.9	74.0
2595.655000	53.1	299.5	V	62.0	-24.1	20.9	74.0
4499.275000	42.1	188.5	V	0.0	-19.7	31.9	74.0
8299.490000	41.8	99.7	V	46.0	-12.0	32.2	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)
1147.505000	23.3	202.4	V	30.0	-29.1	30.7	54.0
1498.930000	36.4	335.5	V	0.0	-28.3	17.6	54.0
1997.000000	35.9	99.8	V	46.0	-27.0	18.1	54.0
2595.655000	33.9	299.5	V	62.0	-24.1	20.1	54.0
4499.275000	25.3	188.5	V	0.0	-19.7	28.7	54.0
8299.490000	29.3	99.7	V	46.0	-12.0	24.7	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
<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	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 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 850/1900, WCDMA B2/B5, LTE B5, BT, WLAN 2.4G, Model: LM-Q610ZA, FCC ID: ZNFQ610ZA** complies with §15.107 and §15.109 of the FCC rules.



## 8. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A