

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 28, 2018**Date of Issue: April 11, 2018****Test Report No. HCT-EM-1803-FC028-R1****FCC ID :****ZNFQ710TS**

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, WLAN and NFC
Model Name : LM-Q710TS
Additional Model Name : LMQ710TS, Q710TS, LM-Q710MS, LMQ710MS, Q710MS
Travel Adaptor Information : Model: MCS-H06WR / Manufacturer: SUNLIN
Date of Test : March 15, 2018 – March 19, 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-FC028	March 23, 2018	Initial Release
HCT-EM-1803-FC028-R1	April 11, 2018	Changed the frequency range (WiFi 5 GHz_UNII 2C)



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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFQ710TS
Model	LM-Q710TS
Additional Model	LMQ710TS, Q710TS, LM-Q710MS, LMQ710MS, Q710MS
EUT Type	Multi-band GSM/WCDMA/LTE Phone with BT, WLAN and NFC
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) 2 496 MHz to 2 570 MHz (LTE B7) 699 MHz to 716 MHz (LTE B12) 777 MHz to 787 MHz (LTE B13) 2 496 MHz to 2 690 MHz (LTE B41) 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 5 700 MHz (WiFi 5 GHz_UNII 2C) 5 745 MHz to 5 825 MHz (WiFi 5 GHz_UNII 3) 13.56 MHz (NFC)
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) 2 516 MHz to 2 690 MHz (LTE B7) 729 MHz to 746 MHz (LTE B12) 746 MHz to 756 MHz (LTE B13) 2 496 MHz to 2 690 MHz (LTE B41) 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 5 700 MHz (WiFi 5 GHz_UNII 2C) 5 745 MHz to 5 825 MHz (WiFi 5 GHz_UNII 3) 13.56 MHz (NFC)



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-Q710TS	-	LG	ZNFQ710TS
Data cable	EAD64746101	-	Ningbo Broad	-
Earphone	EAB64468444	-	CRESYN	-
Travel adaptor	MCS-H06WR	-	SUNLIN	-
Micro SD card	256 GB 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)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	USB Type C	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, 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

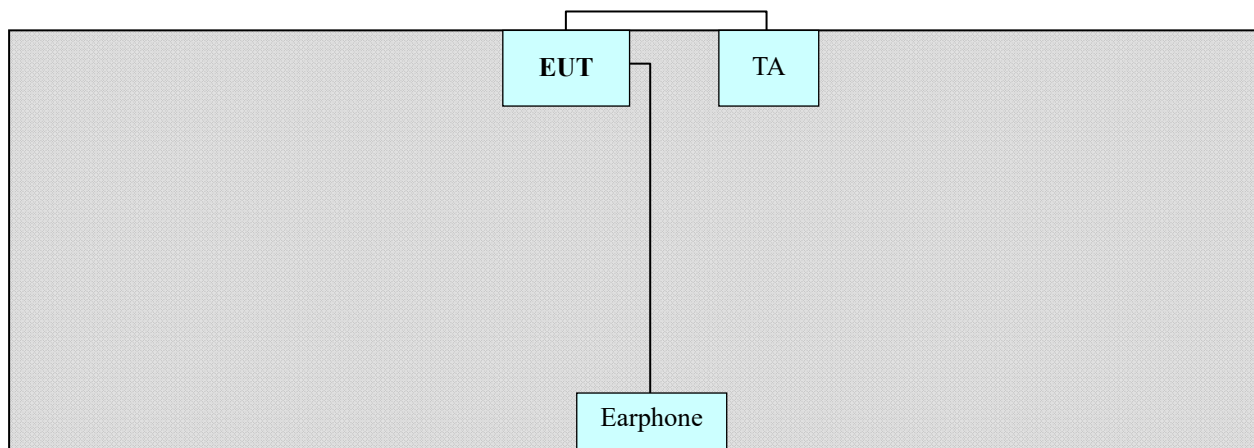


3.2.1 Frequency Range of Radiated Measurements

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



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

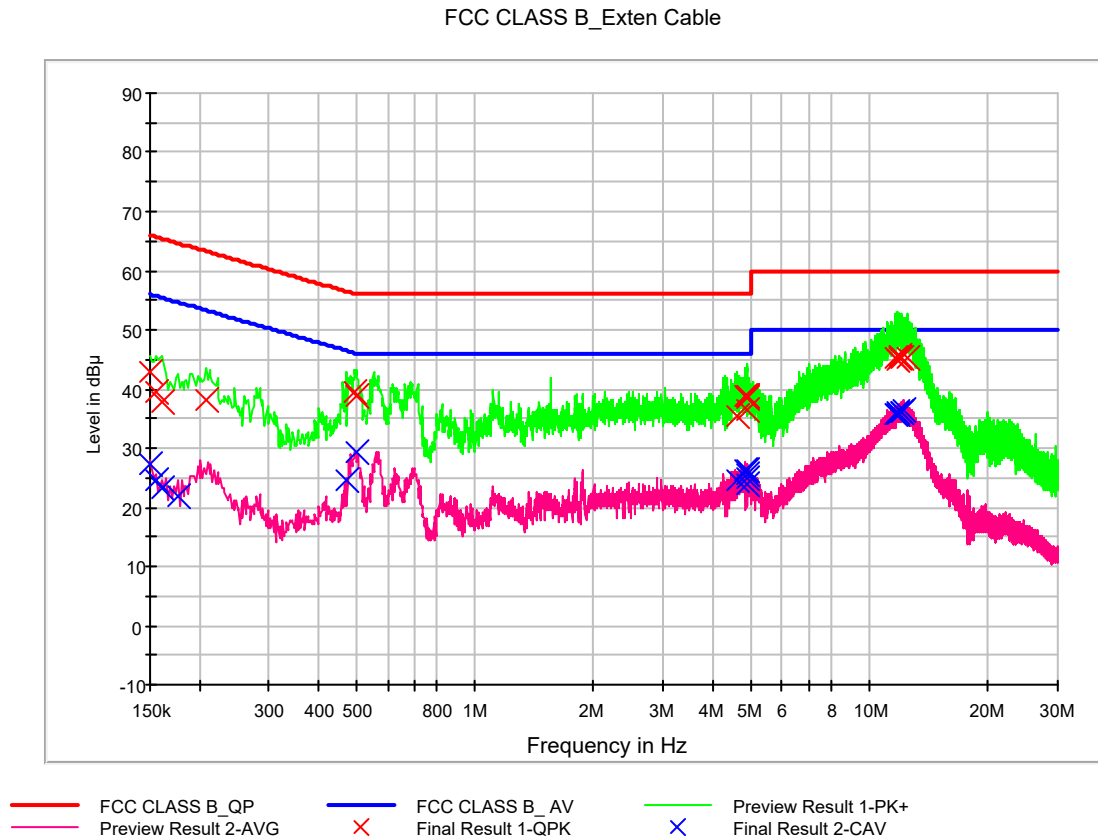
5.1 Conducted Emission Test

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	23.0 °C
Relative Humidity	41.2 %
Test Date	March 19, 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)**



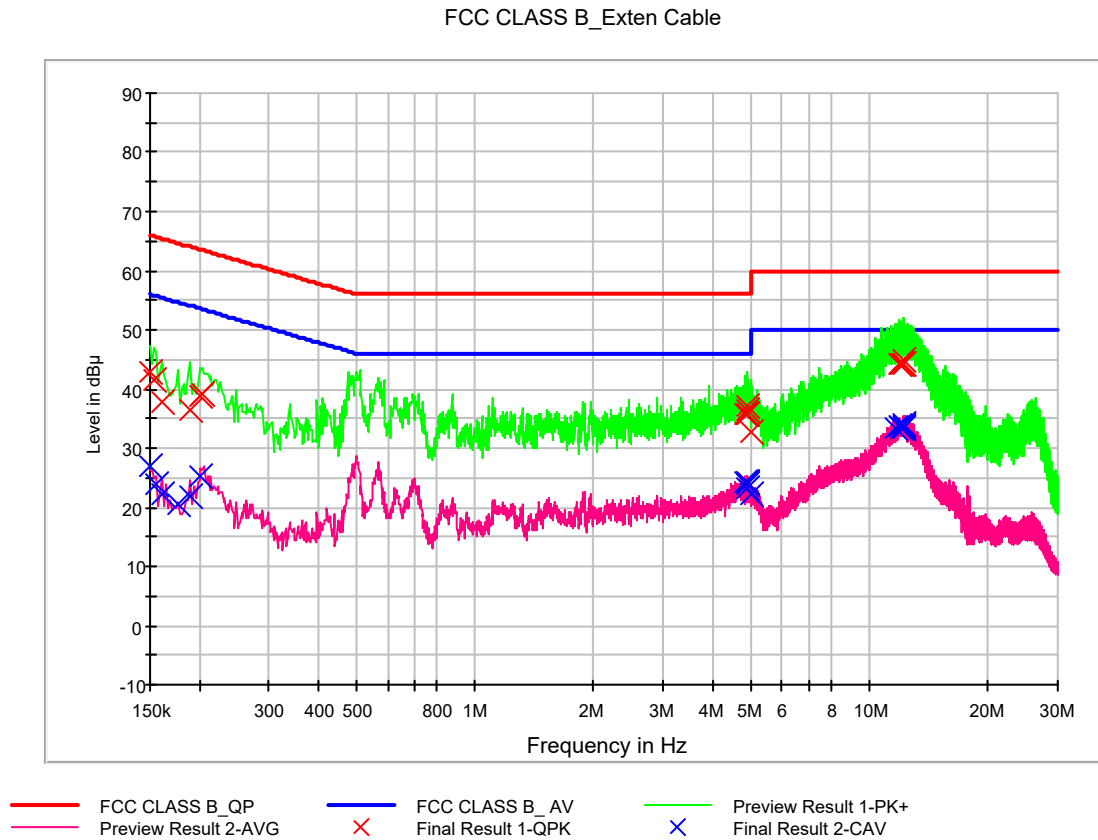
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	42.9	9.000	L1	9.7	23.1	66.0
0.156000	39.4	9.000	L1	9.7	26.3	65.7
0.160000	37.8	9.000	L1	9.7	27.7	65.5
0.208000	38.2	9.000	L1	9.7	25.1	63.3
0.494000	39.6	9.000	L1	9.7	16.5	56.1
0.500000	38.9	9.000	L1	9.7	17.1	56.0
4.630000	35.5	9.000	L1	10.0	20.5	56.0
4.826000	38.7	9.000	L1	10.0	17.3	56.0
4.892000	38.4	9.000	L1	10.0	17.6	56.0
4.906000	38.9	9.000	L1	10.0	17.1	56.0
4.912000	38.9	9.000	L1	10.0	17.1	56.0
4.918000	36.6	9.000	L1	10.0	19.4	56.0
11.578000	45.2	9.000	L1	10.2	14.8	60.0
11.804000	44.8	9.000	L1	10.2	15.2	60.0
11.966000	45.7	9.000	L1	10.2	14.3	60.0
11.970000	45.4	9.000	L1	10.2	14.6	60.0
11.986000	45.2	9.000	L1	10.2	14.8	60.0
12.452000	45.3	9.000	L1	10.2	14.7	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	27.4	9.000	L1	9.7	28.6	56.0
0.156000	24.5	9.000	L1	9.7	31.2	55.7
0.160000	23.4	9.000	L1	9.7	32.1	55.5
0.176000	21.9	9.000	L1	9.7	32.8	54.7
0.472000	24.7	9.000	L1	9.7	21.8	46.5
0.500000	29.3	9.000	L1	9.7	16.7	46.0
4.630000	24.5	9.000	L1	10.0	21.5	46.0
4.824000	26.3	9.000	L1	10.0	19.7	46.0
4.906000	26.1	9.000	L1	10.0	19.9	46.0
4.910000	25.7	9.000	L1	10.0	20.3	46.0
4.914000	24.8	9.000	L1	10.0	21.2	46.0
4.918000	23.8	9.000	L1	10.0	22.2	46.0
11.696000	35.7	9.000	L1	10.2	14.3	50.0
11.804000	35.9	9.000	L1	10.2	14.1	50.0
11.832000	36.0	9.000	L1	10.2	14.0	50.0
11.986000	36.1	9.000	L1	10.2	13.9	50.0
12.062000	36.2	9.000	L1	10.2	13.8	50.0
12.198000	36.4	9.000	L1	10.2	13.6	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)
0.150000	42.9	9.000	N	9.7	23.1	66.0
0.154000	41.6	9.000	N	9.7	24.2	65.8
0.160000	37.9	9.000	N	9.7	27.6	65.5
0.190000	36.5	9.000	N	9.7	27.6	64.0
0.200000	38.8	9.000	N	9.7	24.8	63.6
0.204000	39.1	9.000	N	9.7	24.3	63.4
4.814000	35.7	9.000	N	10.0	20.3	56.0
4.896000	35.9	9.000	N	10.0	20.1	56.0
4.902000	36.4	9.000	N	10.0	19.6	56.0
4.910000	37.2	9.000	N	10.0	18.8	56.0
4.914000	35.8	9.000	N	10.0	20.2	56.0
5.014000	32.7	9.000	N	10.0	27.3	60.0
11.864000	44.3	9.000	N	10.3	15.7	60.0
11.870000	44.2	9.000	N	10.3	15.8	60.0
12.052000	44.1	9.000	N	10.3	15.9	60.0
12.120000	44.2	9.000	N	10.3	15.8	60.0
12.194000	45.0	9.000	N	10.3	15.0	60.0
12.258000	44.2	9.000	N	10.3	15.8	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	27.1	9.000	N	9.7	28.9	56.0
0.156000	23.8	9.000	N	9.7	31.9	55.7
0.160000	22.4	9.000	N	9.7	33.1	55.5
0.176000	20.5	9.000	N	9.7	34.2	54.7
0.190000	22.0	9.000	N	9.7	32.1	54.0
0.202000	25.4	9.000	N	9.7	28.1	53.5
4.820000	24.3	9.000	N	10.0	21.7	46.0
4.882000	24.3	9.000	N	10.0	21.7	46.0
4.902000	24.1	9.000	N	10.0	21.9	46.0
4.910000	23.7	9.000	N	10.0	22.3	46.0
4.914000	23.2	9.000	N	10.0	22.8	46.0
5.014000	22.3	9.000	N	10.0	27.7	50.0
11.566000	33.4	9.000	N	10.3	16.6	50.0
11.870000	33.7	9.000	N	10.3	16.3	50.0
12.052000	33.5	9.000	N	10.3	16.5	50.0
12.194000	33.8	9.000	N	10.3	16.2	50.0
12.202000	34.0	9.000	N	10.3	16.0	50.0
12.258000	33.5	9.000	N	10.3	16.5	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)
Operation Mode	Camera (Rear) & FM Radio mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.4 °C
Relative Humidity	38.6 %
Test Date	March 15, 2018

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
38.680000	22.6	99.8	V	34.0	19.5	17.4	40.0
80.811200	25.8	99.8	V	353.0	15.5	14.2	40.0
161.696000	30.5	99.9	V	0.0	20.1	13.0	43.5
212.158400	17.8	99.8	V	283.0	17.3	25.7	43.5
305.340800	20.3	99.7	V	353.0	20.7	25.7	46.0
679.470400	28.2	134.9	H	87.0	28.4	17.8	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	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	23.6 / 23.3 °C
Relative Humidity	39.0 / 38.8 %
Test Date	March 16 / March 17, 2018

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1499.865000	37.8	99.8	V	174.0	-28.3	36.2	74.0
1972.830000	30.1	160.5	V	296.0	-27.1	43.9	74.0
3118.335000	33.9	243.4	H	93.0	-22.7	40.1	74.0
5390.465000	36.8	99.7	V	312.0	-17.7	37.2	74.0
6459.575000	39.7	176.7	H	230.0	-15.1	34.3	74.0
7406.375000	41.4	176.4	V	261.0	-12.4	32.6	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1499.865000	27.9	99.8	V	174.0	-28.3	26.1	54.0
1972.830000	17.6	160.5	V	296.0	-27.1	36.4	54.0
3118.335000	21.0	243.4	H	93.0	-22.7	33.0	54.0
5390.465000	24.1	99.7	V	312.0	-17.7	29.9	54.0
6459.575000	26.4	176.7	H	230.0	-15.1	27.6	54.0
7406.375000	28.8	176.4	V	261.0	-12.4	25.2	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>					
☐ 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	ENV216	102245	1 year	12.20.2017
☐ LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	05.22.2017
☐ LISN	Rohde & Schwarz	ENV216	100073	1 year	07.18.2017
☒ Software	Rohde & Schwarz	EMC32 VER8.54.0	-	-	-
<u>Radiated Emission</u>					
-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	INNCO Systems	MA4000-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	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	INNCO Systems	MA4000-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	N/A	-
☒ Turn Table	INNCO Systems	-	-	N/A	-
☒ Turn Table controller	INNCO Systems	CO2000	-	N/A	-
☒ Horn Antenna	BBHA 9120D	Schwarzbeck	296	2 year	10.12.2016
☒ Low Noise Amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.06.2018
☒ Power Amplifier	TK-PA1840H	TESTEK	170030-L	1 year	12.20.2017
☒ Horn Antenna	BBHA 9170	Schwarzbeck	BBHA9170#786	2 year	12.05.2017
☐ Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☐ Power Amplifier	CERNEX	CBLU1183540	21691	1 year	06.28.2017
☐ Antenna master	HD GmbH	MA240	240/520	N/A	-
☐ Horn Antenna	Schwarzbeck	BBHA 9120D	1300	2 year	06.30.2017
☐ 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: Multi-band GSM/WCDMA/LTE Phone with BT, WLAN and NFC, Model: LM-Q710TS, FCC ID: ZNFQ710TS** complies with §15.107 and §15.109 of the FCC rules.



8. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A