

EMI TEST REPORT

FCC CERTIFICATION

Applicant:

LG Electronics USA, Inc.
1000 Sylvan Avenue, Englewood Cliffs NJ 07632
United States

Date of Issue: April 30, 2019**Test Report No. HCT-EM-1904-FC032****Test Site: HCT CO., LTD.****FCC ID :****ZNFQ720TS**

Rule Part(s) / Standard(s) : 47 CFR PART 15 Subpart B Class B
ANSI C63.4-2014

EUT Type : Multi-band GSM/WCDMA/LTE Phone with BT, WLAN and
NFC

Model Name : LM-Q720TS

Additional Model Name : LMQ720TS, Q720TS, LM-Q720MS, LMQ720MS, Q720MS

Travel Adaptor Information : Model Name: MCS-H06WA / Manufacturer: AOHA1

Date of Test : April 21, 2019 to April 28, 2019

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-1904-FC032	April 30, 2019	Initial Release



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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFQ720TS
Model	LM-Q720TS
Additional Model	LMQ720TS, Q720TS, LM-Q720MS, LMQ720MS, Q720MS
EUT Type	Multi-band GSM/WCDMA/LTE Phone with BT, WLAN and NFC
TX Frequency	824.70 MHz to 848.31 MHz (CDMA BC0) 1 851.25 MHz to 1 908.75 MHz (CDMA BC1) 817.90 MHz to 823.10 MHz (CDMA BC10) 824.2 MHz to 848.8 MHz (GSM 850) 1 850.2 MHz to 1 909.8 MHz (GSM 1 900) 1 852.4 MHz to 1 907.6 MHz (WCDMA B2) 1712.4 MHz to 1752.6 MHz (WCDMA B4) 826.4 MHz to 846.6 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) 2 496 MHz to 2570 MHz (LTE B7) 699 MHz to 716 MHz (LTE B12) 777 MHz to 787 MHz (LTE B13) 704 MHz to 716 MHz (LTE B17) 1 850 MHz to 1 915 MHz (LTE B25) 814 MHz to 849 MHz (LTE B26) 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 5 720 MHz (WiFi 5 GHz_UNII 2C) 5 745 MHz to 5 825 MHz (WiFi 5 GHz_UNII 3) 13.56 MHz (NFC)
RX Frequency	869.70 MHz to 893.31 MHz (CDMA BC0) 1 931.25 MHz to 1 988.75 MHz (CDMA BC1) 862.00 MHz to 894.00 MHz (CDMA BC10) 869.2 MHz to 893.8 MHz (GSM 850) 1 930.2 MHz to 1 989.8 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) 871.4 MHz to 891.6 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 2690 MHz (LTE B7) 729 MHz to 746 MHz (LTE B12)



RX Frequency	746 MHz to 756 MHz (LTE B13) 734 MHz to 746 MHz (LTE B17) 1 925 MHz to 1 990 MHz (LTE B25) 859 MHz to 894 MHz (LTE B26) 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 5 720 MHz (WiFi 5 GHz_UNII 2C) 5 745 MHz to 5 825 MHz (WiFi 5 GHz_UNII 3) 13.56 MHz (NFC)
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1.2 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-Q720TS	-	LG	ZNFQ720TS
Data Cable	EAD64746102	-	Luxshare	-
Earphone	EAB64468444	-	CRESYN	-
Micro SD card	SAMSUNG EVO +microSDXC CLASS10 UHS-1 (256 GB)	-	SAMSUNG	-
TA	MCS-H06WA	-	AOHAI	-

1.3 Cable Description

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

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



1.4 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

1.5 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	KR0032
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #1	
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #2	

1.6 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).

1.7 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
Radiated Emissions (30 MHz to 1 GHz)	5.20 dB
Radiated Emissions (1 GHz to 18 GHz)	5.24 dB
Radiated Emissions (18 GHz to 40 GHz)	5.40 dB



2. 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>					
☒ EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.25.2018
☐ EMI Test Receiver	Rohde & Schwarz	ESCI	100033	1 year	06.27.2018
☒ LISN	Rohde & Schwarz	ENV216	102245	1 year	12.12.2018
☒ 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	07.27.2018
☒ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	10.31.2018
☒ Trilog Antenna	Schwarzbeck	VULB 9168	255	2 year	03.26.2019
☐ Trilog Antenna	Schwarzbeck	VULB 9168	760	2 year	03.22.2019
☒ Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO3000/870/ 35990515/L	N/A	-
☒ Turn Table	INNCO Systems	1060	-	N/A	-
☒ Turn Table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
☐ EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.14.2018
☐ 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	ESU 40	Rohde & Schwarz	100361	1 year	10.11.2018
☒ Antenna master	MA4640/800-XP-ET	NNCO System	-	-	-
☒ Antenna master controller	CO3000	INNCO SYSTEM	CO3000/951/3859 0616/L	-	-
☒ Turn Table	DT3000-3t	INNCO systems	-	-	-
☒ Turn Table controller	CO3000	INNCO SYSTEM	CO3000/999/4024 0317/G	-	-
☒ Power Amplifier	TK-PA18H	TESTEK	170012-L	1 year	03.11.2019
☒ Horn Antenna	BBHA 9120D	Schwarzbeck	1152	2 year	11.29.2017
☒ Software	Rohde & Schwarz	EMC32	-	-	-
-For measurement above 18 GHz					
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	07.27.2018
☒ Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
☒ Turn Table	INNCO Systems	1060	-	N/A	-
☒ Turn Table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
☒ Low Noise Amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.04.2019
☒ Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	12.17.2018
☒ Software	Rohde & Schwarz	EMC32	-	-	-



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

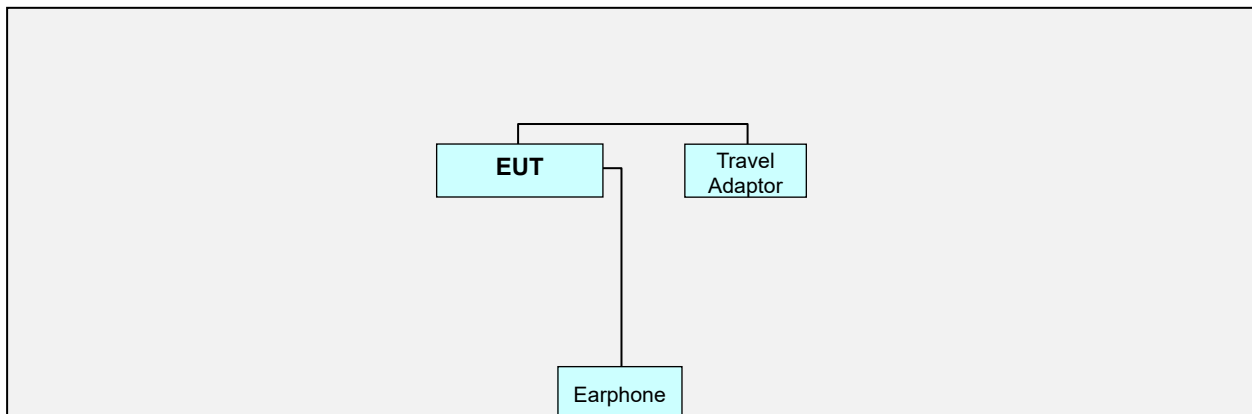


3.2.1 Frequency Range of Radiated Measurements

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

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

Operating Modes:

- ☒ FRONT CAMERA & MP3 mode
- ☒ REAR CAMERA & FM RADIO mode
- ☒ IDLE mode

NOTE. The worst-case emissions are reported.

4.2 Radiated Emission

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

Operating Modes:

- ☒ FRONT CAMERA & MP3 mode
- ☒ REAR CAMERA & FM RADIO mode
- ☒ IDLE mode

NOTE. The worst-case emissions are reported.



5. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

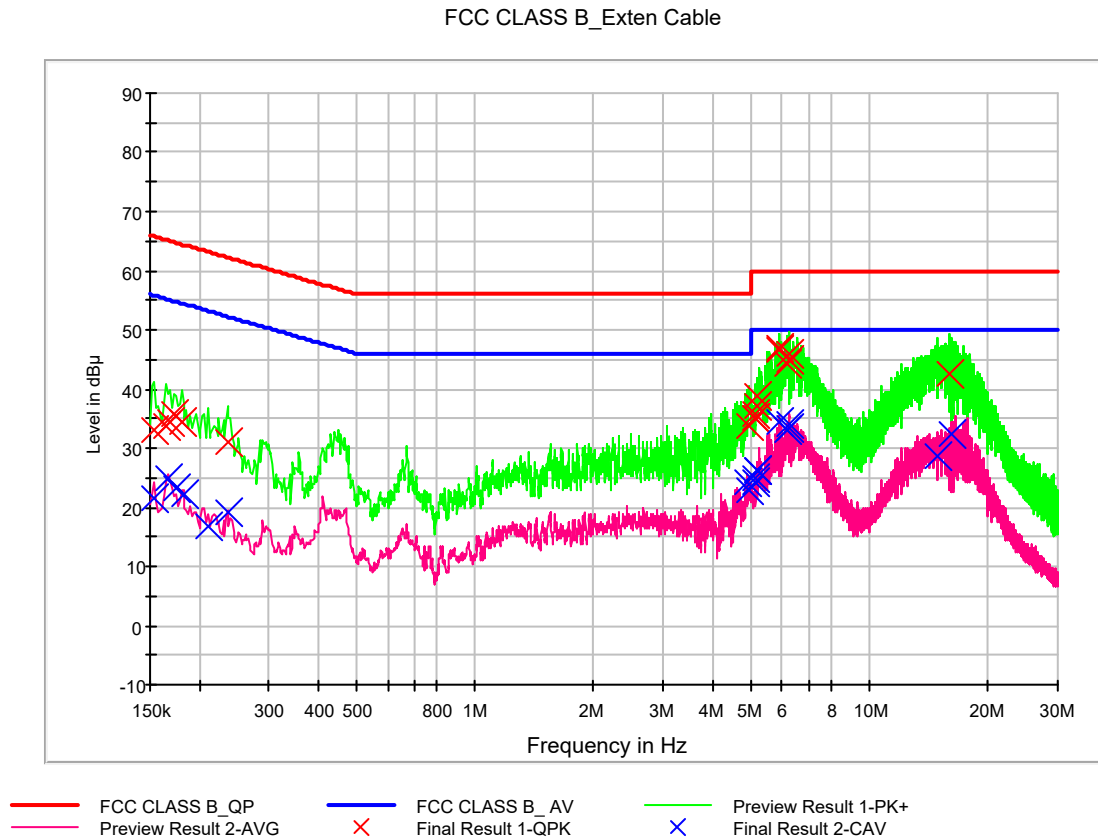
5.1 Conducted Emission

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)
Operating Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	Shielded Room
Temperature	23.6 °C
Relative Humidity	43.8 %
Test Date	April 21, 2019

- 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)**



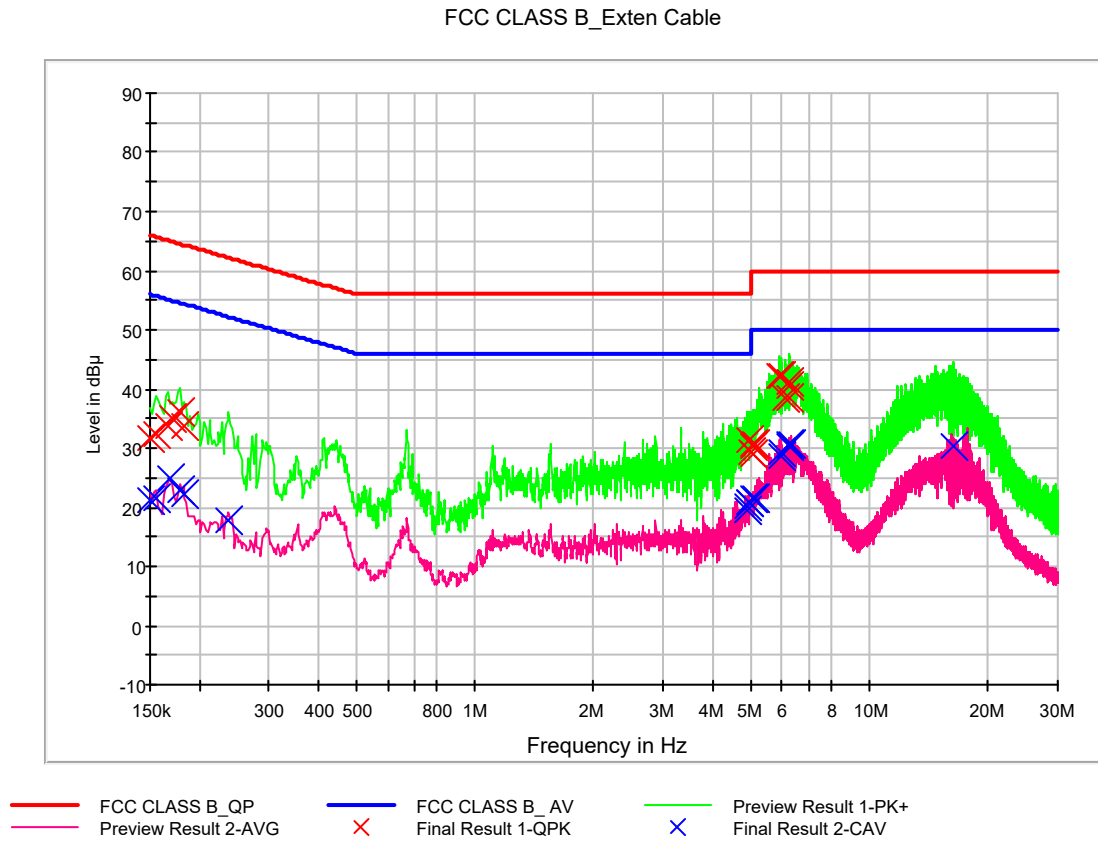
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	33.1	9.000	L1	9.7	32.7	65.8
0.164000	33.8	9.000	L1	9.7	31.4	65.3
0.168000	34.5	9.000	L1	9.7	30.6	65.1
0.172000	35.6	9.000	L1	9.7	29.2	64.9
0.180000	34.6	9.000	L1	9.7	29.9	64.5
0.236000	31.1	9.000	L1	9.7	31.2	62.2
4.926000	33.8	9.000	L1	10.0	22.2	56.0
5.152000	35.2	9.000	L1	10.0	24.8	60.0
5.156000	35.2	9.000	L1	10.0	24.8	60.0
5.160000	35.9	9.000	L1	10.0	24.1	60.0
5.166000	37.3	9.000	L1	10.0	22.7	60.0
5.172000	38.9	9.000	L1	10.0	21.1	60.0
5.876000	46.9	9.000	L1	10.1	13.1	60.0
5.934000	46.5	9.000	L1	10.1	13.5	60.0
6.168000	44.2	9.000	L1	10.1	15.8	60.0
6.228000	46.0	9.000	L1	10.1	14.0	60.0
6.232000	45.0	9.000	L1	10.1	15.0	60.0
15.896000	42.5	9.000	L1	10.4	17.5	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	21.7	9.000	L1	9.7	34.1	55.8
0.166000	25.0	9.000	L1	9.7	30.2	55.2
0.174000	23.4	9.000	L1	9.7	31.4	54.8
0.182000	22.2	9.000	L1	9.7	32.2	54.4
0.210000	16.7	9.000	L1	9.7	36.5	53.2
0.236000	19.0	9.000	L1	9.7	33.2	52.2
4.910000	24.4	9.000	L1	10.0	21.6	46.0
4.926000	22.8	9.000	L1	10.0	23.2	46.0
5.152000	24.3	9.000	L1	10.0	25.7	50.0
5.158000	24.8	9.000	L1	10.0	25.2	50.0
5.166000	26.3	9.000	L1	10.0	23.7	50.0
5.172000	26.3	9.000	L1	10.0	23.7	50.0
5.932000	34.3	9.000	L1	10.1	15.7	50.0
6.168000	32.9	9.000	L1	10.1	17.1	50.0
6.228000	34.0	9.000	L1	10.1	16.0	50.0
6.284000	33.4	9.000	L1	10.1	16.6	50.0
14.870000	28.7	9.000	L1	10.4	21.3	50.0
16.188000	32.2	9.000	L1	10.5	17.8	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	31.8	9.000	N	9.8	34.2	66.0
0.156000	32.5	9.000	N	9.8	33.2	65.7
0.166000	33.6	9.000	N	9.8	31.5	65.2
0.170000	35.0	9.000	N	9.8	30.0	65.0
0.178000	36.0	9.000	N	9.8	28.6	64.6
0.182000	33.9	9.000	N	9.8	30.5	64.4
4.970000	31.4	9.000	N	10.2	24.6	56.0
5.020000	29.4	9.000	N	10.2	30.6	60.0
5.076000	28.9	9.000	N	10.2	31.1	60.0
5.090000	30.7	9.000	N	10.2	29.3	60.0
5.096000	30.3	9.000	N	10.2	29.7	60.0
5.108000	30.8	9.000	N	10.2	29.2	60.0
5.936000	42.1	9.000	N	10.3	17.9	60.0
5.940000	42.2	9.000	N	10.3	17.8	60.0
6.086000	38.6	9.000	N	10.3	21.4	60.0
6.252000	38.5	9.000	N	10.3	21.5	60.0
6.284000	40.5	9.000	N	10.3	19.5	60.0
6.290000	41.2	9.000	N	10.3	18.8	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	21.3	9.000	N	9.8	34.7	56.0
0.156000	21.5	9.000	N	9.8	34.2	55.7
0.168000	25.1	9.000	N	9.8	30.0	55.1
0.178000	22.7	9.000	N	9.8	31.8	54.6
0.182000	22.0	9.000	N	9.8	32.4	54.4
0.238000	17.9	9.000	N	9.9	34.3	52.2
4.920000	20.1	9.000	N	10.2	25.9	46.0
4.924000	19.4	9.000	N	10.2	26.6	46.0
4.956000	20.8	9.000	N	10.2	25.2	46.0
4.970000	20.7	9.000	N	10.2	25.3	46.0
5.096000	21.5	9.000	N	10.2	28.5	50.0
5.102000	21.4	9.000	N	10.2	28.6	50.0
5.946000	28.7	9.000	N	10.3	21.3	50.0
6.000000	29.5	9.000	N	10.3	20.5	50.0
6.284000	30.2	9.000	N	10.3	19.8	50.0
6.290000	30.7	9.000	N	10.3	19.3	50.0
6.298000	30.7	9.000	N	10.3	19.3	50.0
16.306000	30.4	9.000	N	10.7	19.6	50.0



5.2 Radiated Emission

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)
Operating Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.3 °C
Relative Humidity	43.5 %
Test Date	April 28, 2019

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.903808	20.3	193.8	V	32.0	18.3	19.7	40.0
46.350701	26.5	125.2	V	91.0	19.5	13.5	40.0
75.164329	18.8	294.7	H	280.0	16.8	21.2	40.0
150.342685	23.7	274.9	V	259.0	19.4	19.8	43.5
691.693387	27.2	207.8	V	185.0	28.5	18.8	46.0
943.537075	30.8	309.8	H	30.0	31.7	15.2	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 Frequency	5 825 MHz
Tested Frequency Range	1 GHz to 30 GHz
Operating Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	10 m semi anechoic chamber
Temperature	22.9 - 23.6 °C
Relative Humidity	42.4 - 43.1 %
Test Date	April 21, 2019

Frequency (MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
5307.778100	35.91	70.00	34.09	102.0	V	-4.0	-8.1
6463.832200	38.96	70.00	31.04	209.8	V	132.0	-3.9
8872.277800	43.53	70.00	26.47	119.0	V	141.0	0.1
10093.138500	45.73	70.00	24.27	101.8	V	260.0	2.5
10358.000700	47.35	70.00	22.65	98.6	V	252.0	3.7
11287.060200	49.77	70.00	20.23	224.9	V	14.0	6.7

Frequency (MHz)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)
5307.778100	23.58	50.00	26.42	102.0	V	-4.0	-8.1
6463.832200	26.68	50.00	23.32	209.8	V	132.0	-3.9
8872.277800	30.38	50.00	19.62	119.0	V	141.0	0.1
10093.138500	32.65	50.00	17.35	101.8	V	260.0	2.5
10358.000700	34.00	50.00	16.00	98.6	V	252.0	3.7
11287.060200	36.71	50.00	13.29	224.9	V	14.0	6.7

- 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. CONCLUSION

The data collected shows that the **EUT Type: Multi-band GSM/WCDMA/LTE Phone with BT, WLAN and NFC, FCC ID: ZNFQ720TS, Model: LM-Q720TS** complies with §15.107 and §15.109 of the FCC rules.



7. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Annex A