

EMI TEST REPORT

FCC CERTIFICATION

Applicant:

LG Electronics USA, Inc.

1000 Sylvan Avenue, Englewood Cliffs NJ 07632

United States

Date of Issue: December 27, 2018

Test Report No. HCT-EM-1812-FC032

Test Site: HCT CO., LTD.

FCC ID :

ZNFQ850QM

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

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

Model Name : LM-Q850QM

Additional Model Name : LMQ850QM, Q850QM, LM-Q850QM5, LMQ850QM5, Q850QM5,
LM-Q850QM6, LMQ850QM6, Q850QM6

Date of Test : December 10, 2018 to December 15, 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-1812-FC032	December 27, 2018	Initial Release



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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFQ850QM
Model	LM-Q850QM
Additional Model	LMQ850QM, Q850QM, LM-Q850QM5, LMQ850QM5, Q850QM5, LM-Q850QM6, LMQ850QM6, Q850QM6
EUT Type	Multi-band CDMA/GSM/WCDMA/LTE Phone with BT, WiFi 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) 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) 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 (RFID)
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) 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) 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 (RFID)
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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-Q850QM	-	LG	ZNFQ850QM
Data Cable*	EAD64746101	-	Ningbo Broad	-
Data Cable*	EAD64746102	-	Luxshare	-
Earphone*	EAB63728251	-	CRESYN	-
Earphone*	EAB63728252	-	BUJEON	-
Micro SD card	SAMSUNG EVO +microSDXC CLASS10 UHS-1 (256 GB)	-	SAMSUNG	-
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

*NOTE. The worst case of operating mode is reported.



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	Y	(P,D)1.0
	Earphone	N/A	N	(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.

1.4 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
Notebook PC	RJ 45	N	N/A	N	N/A
	Serial (Mouse)	N	N/A	Y	Notebook PC 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	90661
Radiated Field strength measurement facility 10 m Semi Anechoic chamber	

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
☒ LISN	Rohde & Schwarz	ENV216	102245	1 year	12.12.2018
☒ LISN	Rohde & Schwarz	ENV216	100073	1 year	05.03.2018
☒ 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
☒ Trilog Antenna	Schwarzbeck	VULB 9168	760	2 year	04.06.2017
☒ 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	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	-
☒ Horn Antenna	Schwarzbeck	BBHA 9120D	01836	2 year	05.14.2018
☒ Low Noise Amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.06.2018
☒ Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170#786	2 year	12.05.2017
☒ Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	12.20.2017
☐ Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	12.17.2018
☐ Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☐ Power Amplifier	CERNEX	CBLU1183540	21691	1 year	06.25.2018
☐ Antenna master	HD GmbH	MA240	240/520	N/A	-
☐ EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.14.2018
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-



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

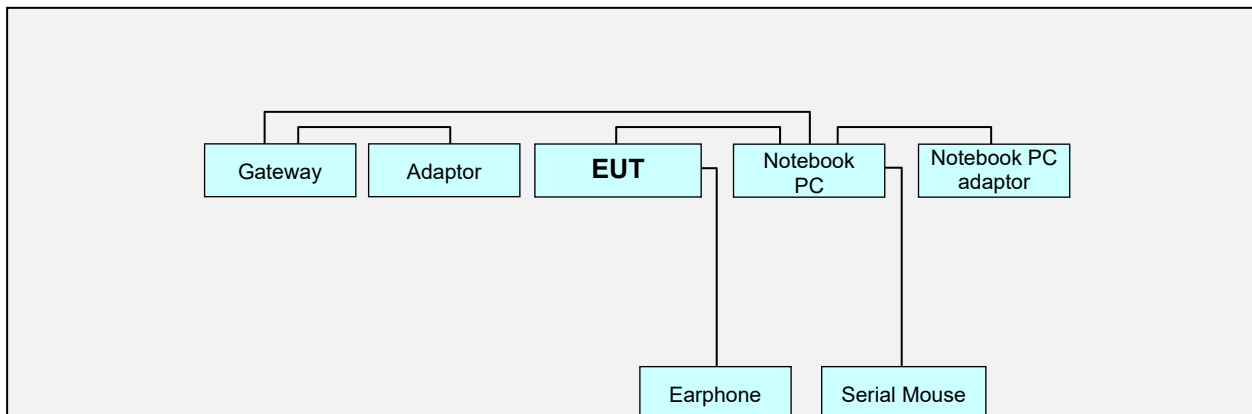


3.2.1 Frequency Range of Radiated Measurements

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:

☒ Data Communication mode

4.2 Radiated Emission

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

Operating Modes:

☒ Data Communication mode



5. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

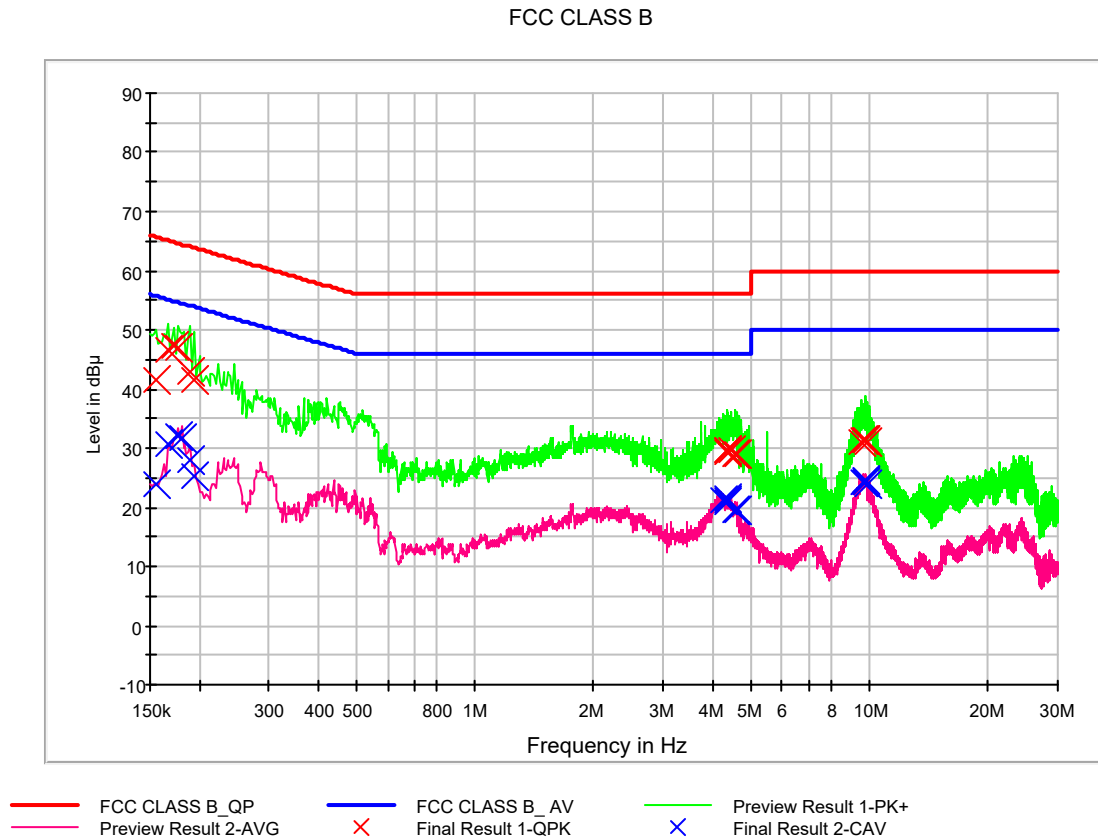
5.1 Conducted Emission

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	Data Communication mode
Worst case of Data Cable / Earphone	LUXSHARE / CRESYN
Kind of Test Site	Shielded Room
Temperature	20.3 °C
Relative Humidity	40.9 %
Test Date	December 14, 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)**



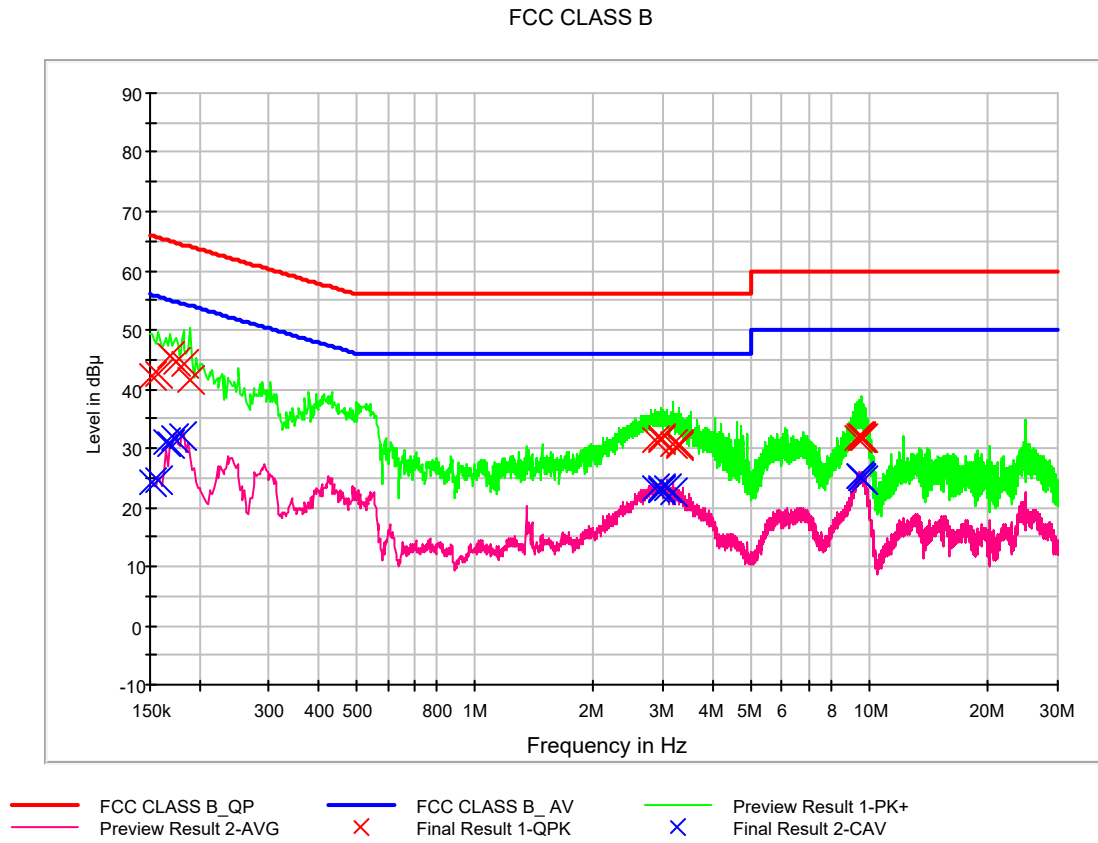
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.156000	41.5	9.000	L1	9.6	24.2	65.7
0.166000	46.6	9.000	L1	9.6	18.6	65.2
0.172000	47.2	9.000	L1	9.6	17.7	64.9
0.176000	46.8	9.000	L1	9.6	17.8	64.7
0.190000	42.8	9.000	L1	9.7	21.3	64.0
0.194000	41.6	9.000	L1	9.7	22.3	63.9
4.334000	29.6	9.000	L1	9.8	26.4	56.0
4.346000	29.8	9.000	L1	9.8	26.2	56.0
4.366000	29.4	9.000	L1	9.8	26.6	56.0
4.470000	29.6	9.000	L1	9.8	26.4	56.0
4.588000	29.0	9.000	L1	9.8	27.0	56.0
4.592000	29.0	9.000	L1	9.8	27.0	56.0
9.502000	31.0	9.000	L1	10.0	29.0	60.0
9.680000	31.5	9.000	L1	10.0	28.5	60.0
9.718000	31.4	9.000	L1	10.0	28.6	60.0
9.754000	31.3	9.000	L1	10.0	28.7	60.0
9.778000	31.3	9.000	L1	10.0	28.7	60.0
9.890000	30.9	9.000	L1	10.0	29.1	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.156000	24.1	9.000	L1	9.6	31.6	55.7
0.166000	30.6	9.000	L1	9.6	24.6	55.2
0.176000	31.9	9.000	L1	9.6	22.7	54.7
0.180000	31.8	9.000	L1	9.6	22.7	54.5
0.190000	28.0	9.000	L1	9.7	26.1	54.0
0.194000	25.2	9.000	L1	9.7	28.6	53.9
4.242000	21.3	9.000	L1	9.8	24.7	46.0
4.340000	21.5	9.000	L1	9.8	24.5	46.0
4.352000	21.0	9.000	L1	9.8	25.0	46.0
4.366000	21.0	9.000	L1	9.8	25.0	46.0
4.588000	19.6	9.000	L1	9.8	26.4	46.0
4.592000	19.4	9.000	L1	9.8	26.6	46.0
9.670000	24.3	9.000	L1	10.0	25.7	50.0
9.718000	24.2	9.000	L1	10.0	25.8	50.0
9.754000	24.4	9.000	L1	10.0	25.6	50.0
9.778000	24.3	9.000	L1	10.0	25.7	50.0
9.786000	24.4	9.000	L1	10.0	25.6	50.0
9.890000	24.0	9.000	L1	10.0	26.0	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	42.3	9.000	N	9.6	23.6	65.9
0.158000	42.4	9.000	N	9.6	23.2	65.6
0.168000	45.7	9.000	N	9.6	19.4	65.1
0.174000	44.6	9.000	N	9.6	20.1	64.8
0.182000	44.2	9.000	N	9.6	20.2	64.4
0.190000	41.5	9.000	N	9.6	22.5	64.0
2.846000	31.3	9.000	N	9.8	24.7	56.0
2.962000	31.4	9.000	N	9.8	24.6	56.0
2.976000	31.5	9.000	N	9.8	24.5	56.0
3.174000	30.8	9.000	N	9.8	25.2	56.0
3.276000	30.5	9.000	N	9.8	25.5	56.0
3.304000	30.2	9.000	N	9.8	25.8	56.0
9.352000	31.6	9.000	N	9.9	28.4	60.0
9.458000	31.9	9.000	N	9.9	28.1	60.0
9.524000	31.9	9.000	N	9.9	28.1	60.0
9.576000	31.8	9.000	N	9.9	28.2	60.0
9.590000	31.8	9.000	N	9.9	28.2	60.0
9.656000	31.6	9.000	N	9.9	28.4	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	24.1	9.000	N	9.6	31.8	55.9
0.158000	24.5	9.000	N	9.6	31.1	55.6
0.164000	31.0	9.000	N	9.6	24.3	55.3
0.168000	30.6	9.000	N	9.6	24.4	55.1
0.172000	31.6	9.000	N	9.6	23.2	54.9
0.180000	32.1	9.000	N	9.6	22.4	54.5
2.846000	23.2	9.000	N	9.8	22.8	46.0
2.962000	23.0	9.000	N	9.8	23.0	46.0
2.972000	23.2	9.000	N	9.8	22.8	46.0
2.976000	23.0	9.000	N	9.8	23.0	46.0
3.078000	23.2	9.000	N	9.8	22.8	46.0
3.174000	22.7	9.000	N	9.8	23.3	46.0
9.440000	25.1	9.000	N	9.9	24.9	50.0
9.458000	25.1	9.000	N	9.9	24.9	50.0
9.524000	25.0	9.000	N	9.9	25.0	50.0
9.544000	25.0	9.000	N	9.9	25.0	50.0
9.590000	25.1	9.000	N	9.9	24.9	50.0
9.656000	24.6	9.000	N	9.9	25.4	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	Data Communication mode
Worst case of Data Cable / Earphone	LUXSHARE / CRESYN
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.6 °C
Relative Humidity	42.8 %
Test Date	December 10, 2018

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
84.608800	23.8	225.2	H	269.0	15.1	16.2	40.0
147.052000	27.5	174.9	H	1.0	19.8	16.0	43.5
266.539200	33.1	117.7	H	129.0	19.4	12.9	46.0
276.438400	32.6	100.0	H	2.0	19.7	13.4	46.0
600.000000	39.7	100.0	V	343.0	27.5	6.3	46.0
799.998400	36.5	100.0	H	43.0	30.2	9.5	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
Operation Mode	Data Communication mode
Worst case of Data Cable / Earphone	LUXSHARE / CRESYN
Kind of Test Site	3 m semi anechoic chamber
Temperature	20.8 °C
Relative Humidity	40.1 %
Test Date	December 15, 2018

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1400.205000	44.6	319.5	H	352.0	-28.2	29.4	74.0
1996.400000	51.1	100.0	V	52.0	-26.7	22.9	74.0
2800.575000	41.9	399.8	V	0.0	-23.6	32.1	74.0
4497.860000	42.9	100.0	V	0.0	-19.5	31.1	74.0
5974.860000	47.2	392.6	V	106.0	-17.1	26.8	74.0
9935.340000	43.5	159.6	H	212.0	-9.4	30.5	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1400.205000	40.3	319.5	H	352.0	-28.2	13.7	54.0
1996.400000	26.2	100.0	V	52.0	-26.7	27.8	54.0
2800.575000	21.4	399.8	V	0.0	-23.6	32.6	54.0
4497.860000	26.1	100.0	V	0.0	-19.5	27.9	54.0
5974.860000	29.3	392.6	V	106.0	-17.1	24.7	54.0
9935.340000	30.9	159.6	H	212.0	-9.4	23.1	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. CONCLUSION

The data collected shows that the **EUT Type: Multi-band CDMA/GSM/WCMDA/LTE Phone with BT, WiFi and NFC, FCC ID: ZNFQ850QM, Model: LM-Q850QM** complies with §15.107 and §15.109 of the FCC rules.



7. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A