



FCC RF Test Report

APPLICANT : LG Electronics Mobile Comm USA
EQUIPMENT : Smart phone
BRAND NAME : LG
MODEL NAME : LG-X240Y
FCC ID : ZNFX240Y
STANDARD : 47 CFR Part 2, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 18, 2016 and testing was completed on Feb. 22, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and the testing has shown the tested sample to be in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : ZNFX240Y

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APPENDIX A. ORIGINAL REPORT



REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FG6O1801B | Rev. 01 | Initial issue of report | Mar. 08, 2017 |
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1 General Description

1.1 Applicant

LG Electronics Mobile Comm USA

LG Twin Towers 20, Yeouido-Dong Youngdeungpo-Gu, Seoul 150-721, Republic Of Korea

1.2 Manufacturer

Arima Communications Corp.

6F, No. 866, Jhongjheng Rd., Jhonghe Dist., New Taipei City 23586, Taiwan

1.3 Product Feature of Equipment Under Test

| Product Feature | |
|---------------------------------|---|
| Equipment | Smart phone |
| Brand Name | LG |
| Model Name | LG-X240Y |
| FCC ID | ZNFX240Y |
| EUT supports Radios application | GSM/EGPRS/WCDMA/HSPA/LTE WLAN 11b/g/n HT20/HT40 Bluetooth BR/EDR/LE |
| HW Version | PP2 |
| SW Version | LGX240YAT-00-V08a-CIS-XX-NOV-17-2016+0 |
| EUT Stage | Production Unit |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4 Re-use of Measured Data

1.4.1 Introduction Section

The original model (FCC ID: ZNFX240YK) and the variant model (FCC ID: ZNFX240Y) has identical PCB layout, antenna, SW implementation for GPS/GSM/WCDMA/LTE. Based on their similarity, the Part 22, 24, 27 (equipment class: PCE) test data issued for original model also apply for the variant model.

And the applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID : ZNFX240Y).

1.4.2 Difference Section

Please refer to Spot Check Evaluation.

1.4.3 Spot Check Verification Data Section

Please refer to Spot Check Evaluation.

1.4.4 Reference detail Section:

Please refer to Spot Check Evaluation.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 ERP/EIRP Power, Frequency Tolerance, and Emission Designator

| FCC Rule | Frequency Range (MHz) | ERP/EIRP (W) | Frequency Tolerance (ppm) | Emission Designator |
|----------|-----------------------|--------------|---------------------------|---------------------|
| Part 27 | 2510.0 ~ 2560.0 | 0.1096 | 0.0087 ppm | 18M5G7D |
| Part 27 | 2510.0 ~ 2560.0 | 0.0807 | 0.0087 ppm | 18M5W7D |



2 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-------------------|-----------------|--------------------|------------|-----------------|------------------|----------------------------------|---------------|--------------------------|
| Horn Antenna | SCHWARZBEC K | BBHA 9120 D | 9120D-1325 | 1GHz ~ 18GHz | Sep. 30, 2016 | Feb. 17, 2017 ~ Feb. 22, 2017 | Sep. 29, 2017 | Radiation (03CH13-HY) |
| Bilog Antenna | TESEQ | CBL 6111D&00800 | 40103&04 | 30MHz to 1GHz | Jan. 07, 2017 | Feb. 17, 2017 ~ Feb. 22, 2017 | Jan. 06, 2018 | Radiation (03CH13-HY) |
| Spectrum Analyzer | Keysight | N9010A | MY55370526 | N/A | Mar. 14, 2016 | Feb. 17, 2017 ~ Feb. 22, 2017 | Mar. 13, 2017 | Radiation (03CH13-HY) |
| Antenna Mast | E MEC | AM-BS-4500- B | N/A | 1m~4m | N/A | Feb. 17, 2017 ~ Feb. 22, 2017 | N/A | Radiation (03CH13-HY) |
| Turn Table | E MEC | TT2000 | N/A | 0~360 Degree | N/A | Feb. 17, 2017 ~ Feb. 22, 2017 | N/A | Radiation (03CH13-HY) |



3 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.90 |
|---|------|

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 5.40 |
|---|------|

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.30 |
|---|------|



Appendix A. Original Report

Please refer to Sporton report number FG6D1013B.