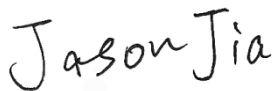


# FCC RF Test Report

APPLICANT : Motorola Mobility LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : XT2027-3  
FCC ID : IHDT56YH2  
STANDARD : FCC Part 15 Subpart E §15.407  
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

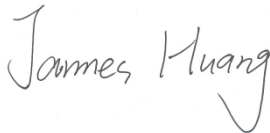
This is a data re-used report which is only valid together with the original test report. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.



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Reviewed by: Jason Jia / Supervisor



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Approved by: James Huang / Manager



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### **APPENDIX A. REFERENCE REPORT**



## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION             | ISSUED DATE   |
|--------------|---------|-------------------------|---------------|
| FR981517-01E | Rev. 01 | Initial issue of report | Oct. 29, 2019 |
|              |         |                         |               |
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# 1 General Description

## 1.1 Applicant

**Motorola Mobility LLC**  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

**Motorola Mobility LLC**  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

| Product Feature                        |                                                                                                                                                                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Equipment</b>                       | Mobile Cellular Phone                                                                                                                                                                                                                               |
| <b>Brand Name</b>                      | Motorola                                                                                                                                                                                                                                            |
| <b>Model Name</b>                      | XT2027-3                                                                                                                                                                                                                                            |
| <b>FCC ID</b>                          | IHDT56YH2                                                                                                                                                                                                                                           |
| <b>EUT supports Radios application</b> | GSM/GPRS/EGPRS/WCDMA/HSPA/<br>DC-HSDPA/HSPA+(16QAM uplink is not supported)/<br>LTE/NFC<br>WLAN 2.4GHz 802.11b/g/n HT20<br>WLAN 5GHz 802.11a/n HT20/HT40<br>WLAN 5GHz 802.11ac VHT20/VHT40/VHT80<br>Bluetooth BR / EDR / LE<br>FM Receiver and GNSS |
| <b>HW Version</b>                      | DVT2                                                                                                                                                                                                                                                |
| <b>SW Version</b>                      | QPF30.71                                                                                                                                                                                                                                            |
| <b>EUT Stage</b>                       | Identical Prototype                                                                                                                                                                                                                                 |

**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 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                     |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tx/Rx Frequency Range                   | 5180 MHz ~ 5240 MHz<br>5260 MHz ~ 5320 MHz<br>5500 MHz ~ 5700 MHz                                                                                                                   |
| Antenna Type / Gain                     | <5150 MHz ~ 5250 MHz><br>Loop Antenna with gain -1.70 dBi<br><5250 MHz ~ 5350 MHz><br>Loop Antenna with gain -1.10 dBi<br><5470 MHz ~ 5725 MHz><br>Loop Antenna with gain -1.60 dBi |
| Type of Modulation                      | 802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)                                                                            |

## 1.5 Modification of EUT

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



## 1.6 Re-use of Measured Data

### 1.6.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2027-3, FCC ID: IHDT56YH2) is electrically identical to the reference device (Model: XT2027-1, FCC ID: IHDT56YH1) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

### 1.6.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration.

The re-used RF data includes the following bands provided in Appendix A (Sporton RF Report No. FR981517E for the reference device Model: XT2027-1, FCC ID: IHDT56YH1).

### 1.6.3 Reference detail Section:

| Equipment Class | Reference FCC ID | Folder Test        | Report Title/Section    |
|-----------------|------------------|--------------------|-------------------------|
| NII (B1~3)      | IHDT56YH1        | Part15C(FR981517E) | All sections applicable |
| NII (B4)        | IHDT56YH1        | Part15C(FR981517F) | All sections applicable |

**1.6.4 Spot Check Verification Data Section**

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for the following test items, the test result were consistent with FCC ID: IHDT56YH1.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

| Test Item                                    | Mode           | IHDT56YH1<br>Worst Result | IHDT56YH2<br>Worst Result | Difference (dB) |
|----------------------------------------------|----------------|---------------------------|---------------------------|-----------------|
| Radiated<br>Spurious<br>Emission<br>(dBuV/m) | 802.11ac VHT80 | 50.82                     | 50.36                     | 0.46            |
|                                              | 802.11a        | 55.09                     | 54.08                     | 1.01            |



## **Appendix A. Reference Report**

Please refer to Sporton report number FR981517E which is issued separately.