

# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT1922-6, XT1922-7, XT1922-9  
**FCC ID** : IHDT56XB1  
**STANDARD** : FCC 47 CFR Part 2, 27D  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Mar. 20, 2018 and completely tested on Apr. 11, 2018. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI/TIA-603-E and shown 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 (Shenzhen) Inc., the test report shall not be reproduced except in full.



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Approved by: Eric Shih / Manager



***Sporton International (Shenzhen) Inc.***

***1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City  
Guangdong Province 518055 China***

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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE  |
|------------|---------|-------------------------|--------------|
| FG832002C  | Rev. 01 | Initial issue of report | May 31, 2018 |
|            |         |                         |              |
|            |         |                         |              |
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|            |         |                         |              |

## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                 | Description                                  | Limit                                 | Result       | Remark                                    |
|----------------|--------------------------|----------------------------------------------|---------------------------------------|--------------|-------------------------------------------|
| -              | §2.1046                  | Conducted Output Power                       | Reporting Only                        | Not Required | -                                         |
| -              | -                        | Peak-to-Average Ratio                        | <13dB                                 | Not Required | -                                         |
| -              | §27.50 (a)(3)            | EIRP Power Density                           | EIRP < 250mW/5MHz                     | Not Required | -                                         |
| -              | §2.1049                  | Occupied Bandwidth                           | Reporting Only                        | Not Required | -                                         |
| -              | §2.1051<br>§27.53 (a)(4) | Conducted Band Edge Measurement              | Refer standard                        | Not Required | -                                         |
| -              | §2.1051<br>§27.53 (a)(4) | Conducted Spurious Emission                  | $< 70 + 10\log_{10}(P[\text{Watts}])$ | Not Required | -                                         |
| -              | §2.1055<br>§27.54        | Frequency Stability<br>Temperature & Voltage | Within the band                       | Not Required | -                                         |
| 3.4            | §2.1053<br>§27.53 (a)(4) | Radiated Spurious Emission                   | $< 70 + 10\log_{10}(P[\text{Watts}])$ | PASS         | Under limit<br>7.94 dB at<br>11526.25 MHz |

**Remark:** Not Required means the changes does not affect the test result.



# 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                 |                                                                                                                                                                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Mobile Cellular Phone                                                                                                                                                                                                                         |
| Brand Name                      | Motorola                                                                                                                                                                                                                                      |
| Model Name                      | XT1922-6, XT1922-7, XT1922-9                                                                                                                                                                                                                  |
| FCC ID                          | IHDT56XB1                                                                                                                                                                                                                                     |
| EUT supports Radios application | CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/<br>DC-HSDPA/HSPA+(16QAM uplink is not supported)/LTE<br>WLAN 2.4GHz 802.11b/g/n HT20<br>WLAN 5GHz 802.11a/n HT20/HT40<br>Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/<br>Bluetooth v4.1 LE/Bluetooth v4.2 LE |
| IMEI Code                       | Radiation: 351864090040753                                                                                                                                                                                                                    |
| HW Version                      | DVT2                                                                                                                                                                                                                                          |
| SW Version                      | jeter_oem_userdebug_8.0.0_OPP27.34_970_intcfg-test-key<br>s_oem                                                                                                                                                                               |
| EUT Stage                       | Identical Prototype                                                                                                                                                                                                                           |

**Remark:**

1. For XT1922-6, XT1922-7, XT1922-9, they are the same product except model name different for market segment.
2. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
3. This is a variant report for XT1922-6, XT1922-7, XT1922-9. The product equality declaration could be referred to Appendix C. According to the difference, only the cases of RSE from original test report (Sporton Report Number FG7D1310C) were verified for the differences with the sample 1.
4. According to original test report, LTE Band 30 is the worst band of all CDMA/GSM/WCDMA/LTE Bands for RSE, so we only evaluate LTE band 30 to verify the differences.

## 1.4 Product Specification of Equipment Under Test

| Product Feature           |                                       |
|---------------------------|---------------------------------------|
| <b>Tx Frequency</b>       | LTE Band 30 : 2307.5 MHz ~ 2312.5 MHz |
| <b>Rx Frequency</b>       | LTE Band 30 : 2352.5 MHz ~ 2357.5 MHz |
| <b>Bandwidth</b>          | 5MHz / 10MHz                          |
| <b>Antenna Type/Gain</b>  | PIFA Antenna / 0.50dBi                |
| <b>Type of Modulation</b> | QPSK / 16QAM / 64QAM                  |

## 1.5 Specification of Accessory

| Specification of Accessory |                         |                                                 |                   |                             |
|----------------------------|-------------------------|-------------------------------------------------|-------------------|-----------------------------|
| <b>AC Adapter 1</b>        | <b>Brand Name</b>       | Motorola (Acbel)                                | <b>Model Name</b> | C-P35 SPN5945A              |
|                            | <b>Power Rating</b>     | I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc, 2000mA    |                   |                             |
| <b>AC Adapter 2</b>        | <b>Brand Name</b>       | Motorola (Salom)                                | <b>Model Name</b> | SSW-2919UMTJ C-P35 SPN5945A |
|                            | <b>Power Rating</b>     | I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc, 2000mA    |                   |                             |
| <b>Battery(sample 1/3)</b> | <b>Brand Name</b>       | Lenovo (SCUD)                                   | <b>Model Name</b> | BL270                       |
|                            | <b>Power Rating</b>     | 3.85/4.4Vdc, 4000mAh                            | <b>Type</b>       | Li-ion                      |
| <b>Battery(sample 2/4)</b> | <b>Brand Name</b>       | Lenovo (ATL)                                    | <b>Model Name</b> | BL270                       |
|                            | <b>Power Rating</b>     | 3.85/4.4Vdc, 4000mAh                            | <b>Type</b>       | Li-ion                      |
| <b>USB Cable 1</b>         | <b>Brand Name</b>       | Motorola (Saibao)                               | <b>Model Name</b> | SLQ-A077A                   |
|                            | <b>Signal Line Type</b> | 1.0 meter, shielded cable, without ferrite core |                   |                             |
| <b>USB Cable 2</b>         | <b>Brand Name</b>       | Motorola (Saibao)                               | <b>Model Name</b> | SLQ-A077A                   |
|                            | <b>Signal Line Type</b> | 1.0 meter, shielded cable, without ferrite core |                   |                             |

## 1.6 Modification of EUT

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

## 1.7 Testing Site

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No is CN5019.

|                    |                                                                                                                                                                          |                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Test Site          | Sporton International (Shenzhen) Inc.                                                                                                                                    |                                |
| Test Site Location | No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District Shenzhen City Guangdong Province<br>518055 China<br>TEL: +86-755-3320-2398 |                                |
| Test Site No.      | Sporton Site No.                                                                                                                                                         | FCC Test Firm Registration No. |
|                    | 03CH03-SZ                                                                                                                                                                | 577730                         |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

## 1.8 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, Part 27(D)
- ANSI/TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

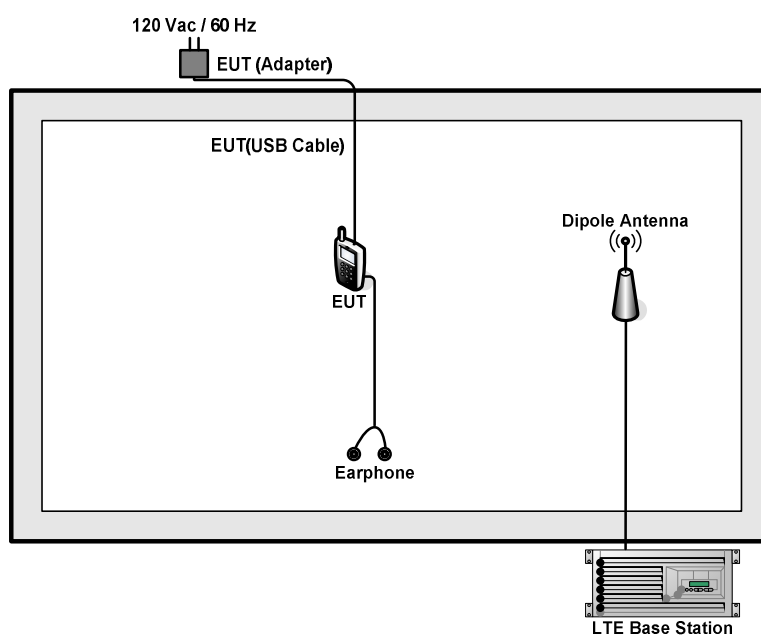
### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

| Conducted<br>Test Cases          | Band                                                                                                                                                                                                                                                                                                                                                                                                                                      | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       | RB # |      |      | Test Channel |   |   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 1    | Half | Full | L            | M | H |
| Radiated<br>Spurious<br>Emission | 30                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |   | V |    |    |    | V          |       |       | V    |      |      | V            |   |   |
| Note                             | <ol style="list-style-type: none"> <li>The mark "v " means that this configuration is chosen for testing</li> <li>The mark "- " means that this bandwidth is not supported.</li> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> </ol> |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |

### 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model No.  | FCC ID | Data Cable      | Power Cord        |
|------|------------------|------------|------------|--------|-----------------|-------------------|
| 1.   | LTE Base Station | Anritsu    | MT8820C    | N/A    | N/A             | Unshielded, 1.8 m |
| 2.   | Earphone         | Moto       | Ashley ROW | N/A    | Unshielded,1.2m | N/A               |

## 2.4 Frequency List of Low/Middle/High Channels

| LTE Band 30 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 27710  | -       |
|                                        | Frequency              | -      | 2310   | -       |
| 5                                      | Channel                | 27685  | 27710  | 27735   |
|                                        | Frequency              | 2307.5 | 2310   | 2312.5  |

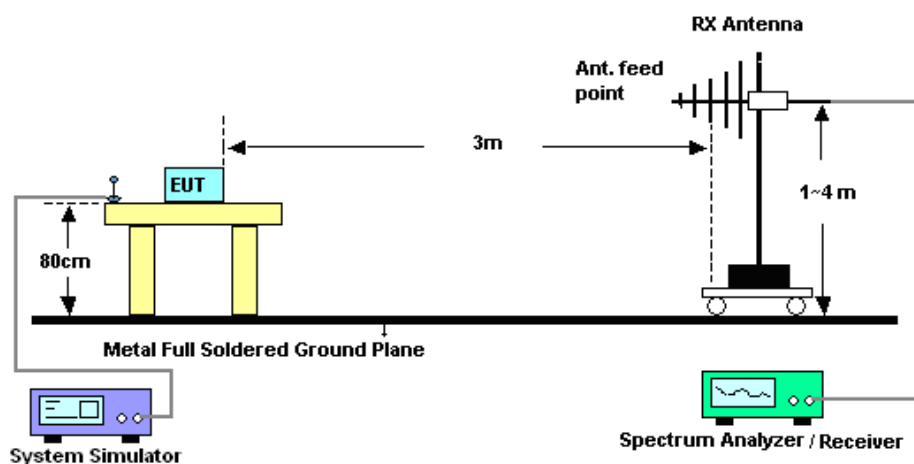
### 3 Radiated Test Items

#### 3.1 Measuring Instruments

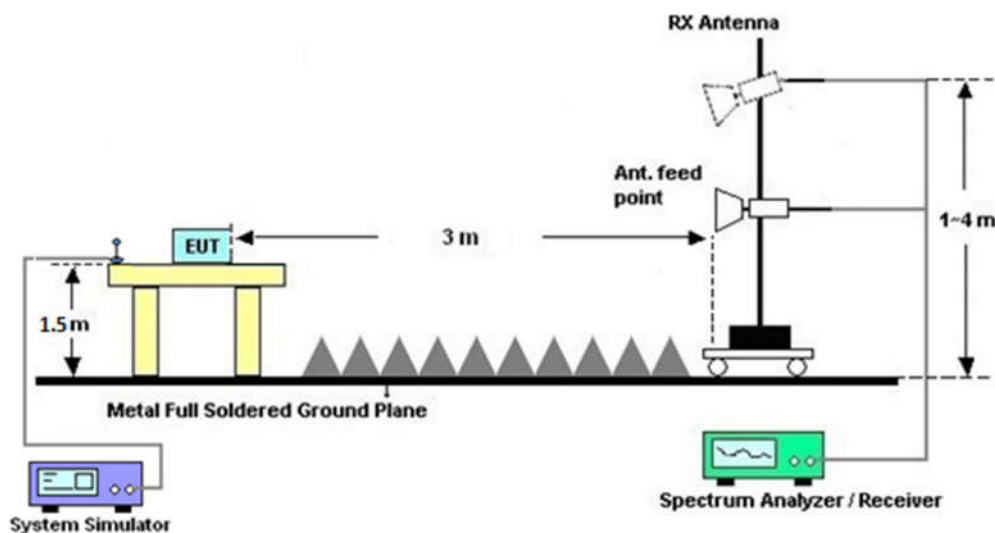
See list of measuring instruments of this test report.

#### 3.2 Test Setup

##### 3.2.1 For radiated test from 30MHz to 1GHz



##### 3.2.2 For radiated test above 1GHz



#### 3.3 Test Result of Radiated Test

Please refer to Appendix B.

## 3.4 Radiated Spurious Emission Measurement

### 3.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $70 + 10 \log (P)$  dB.

### 3.4.2 Test Procedures

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.  
The limit line is derived from  $70 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [70 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[70 + 10\log(P)]$  (dB)  
 $= -40$ dBm.
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain



## 4 List of Measuring Equipment

| Instrument                | Manufacturer         | Model No.      | Serial No.   | Characteristics | Calibration Date | Test Date     | Due Date      | Remark                |
|---------------------------|----------------------|----------------|--------------|-----------------|------------------|---------------|---------------|-----------------------|
| EMI Test Receiver&SA      | KEYSIGHT             | N9038A         | MY54450083   | 20Hz~8.4GHz     | Apr. 20, 2017    | Apr. 11, 2018 | Apr. 19, 2018 | Radiation (03CH03-SZ) |
| EXA Spectrum Analyzer     | KEYSIGHT             | N9010A         | MY55150246   | 10Hz~44GHz;     | Apr. 20, 2017    | Apr. 11, 2018 | Apr. 19, 2018 | Radiation (03CH03-SZ) |
| Bilog Antenna             | TeseQ                | CBL6112D       | 35408        | 30MHz-2GHz      | May 14, 2017     | Apr. 11, 2018 | May 13, 2018  | Radiation (03CH03-SZ) |
| Double Ridge Horn Antenna | SCHWARZBECK          | BBHA9120 D     | 9120D-1355   | 1GHz~18GHz      | Jul. 09, 2017    | Apr. 11, 2018 | Jul. 08, 2018 | Radiation (03CH03-SZ) |
| Amplifier                 | Burgeon              | BPA-530        | 102210       | 0.01Hz ~3000MHz | Oct. 19, 2017    | Apr. 11, 2018 | Oct. 18, 2018 | Radiation (03CH03-SZ) |
| HF Amplifier              | MITEQ                | TTA1840-35 -HG | 1871923      | 18GHz~40GHz     | Jul. 18, 2017    | Apr. 11, 2018 | Jul. 17, 2018 | Radiation (03CH03-SZ) |
| SHF-EHF Horn              | com-power            | AH-840         | 101071       | 18Ghz-40GHz     | Jun. 16, 2017    | Apr. 11, 2018 | Jun. 15, 2018 | Radiation (03CH03-SZ) |
| Amplifier                 | Agilent Technologies | 83017A         | MY39501302   | 500MHz~26.5GHz  | Dec. 27, 2017    | Apr. 11, 2018 | Dec. 26, 2018 | Radiation (03CH03-SZ) |
| AC Power Source           | Chroma               | 61601          | 616010001985 | N/A             | NCR              | Apr. 11, 2018 | NCR           | Radiation (03CH03-SZ) |
| Turn Table                | EM                   | EM1000         | N/A          | 0~360 degree    | NCR              | Apr. 11, 2018 | NCR           | Radiation (03CH03-SZ) |
| Antenna Mast              | EM                   | EM1000         | N/A          | 1 m~4 m         | NCR              | Apr. 11, 2018 | NCR           | Radiation (03CH03-SZ) |

NCR: No Calibration Required

## 5 Uncertainty of Evaluation

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

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.0dB |
|-------------------------------------------------------------------------|-------|

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

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.6dB |
|-------------------------------------------------------------------------|-------|

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

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.8dB |
|-------------------------------------------------------------------------|-------|

## Appendix A. Test Results of Radiated Test

### Radiated Spurious Emission

| LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                                         | 4610.50              | -57.22          | -40              | -17.22                  | -73.38                  | -64.27                   | 5.64                       | 12.69                       | H                     |
|                                                | 6915.75              | -57.45          | -40              | -17.45                  | -78.28                  | -60.91                   | 8.23                       | 11.69                       | H                     |
|                                                | 9221.00              | -53.01          | -40              | -13.01                  | -78.63                  | -56.79                   | 8.12                       | 11.90                       | H                     |
|                                                | 11526.25             | -49.53          | -40              | -9.53                   | -78.55                  | -53.69                   | 8.82                       | 12.98                       | H                     |
|                                                | 4610.50              | -58.96          | -40              | -18.96                  | -74.88                  | -66.01                   | 5.64                       | 12.69                       | V                     |
|                                                | 6915.75              | -56.67          | -40              | -16.67                  | -78.76                  | -60.13                   | 8.23                       | 11.69                       | V                     |
|                                                | 9221.00              | -53.60          | -40              | -13.60                  | -79.24                  | -57.38                   | 8.12                       | 11.90                       | V                     |
|                                                | 11526.25             | -47.94          | -40              | -7.94                   | -77.1                   | -52.10                   | 8.82                       | 12.98                       | V                     |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



## **Appendix C. Product Equality Declaration**

# Motorola Mobility LLC.

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

## Product Equality Declaration

We, Motorola Mobility LLC. declare on our sole responsibility for the product of XT1922-6/XT1922-7/XT1922-9.

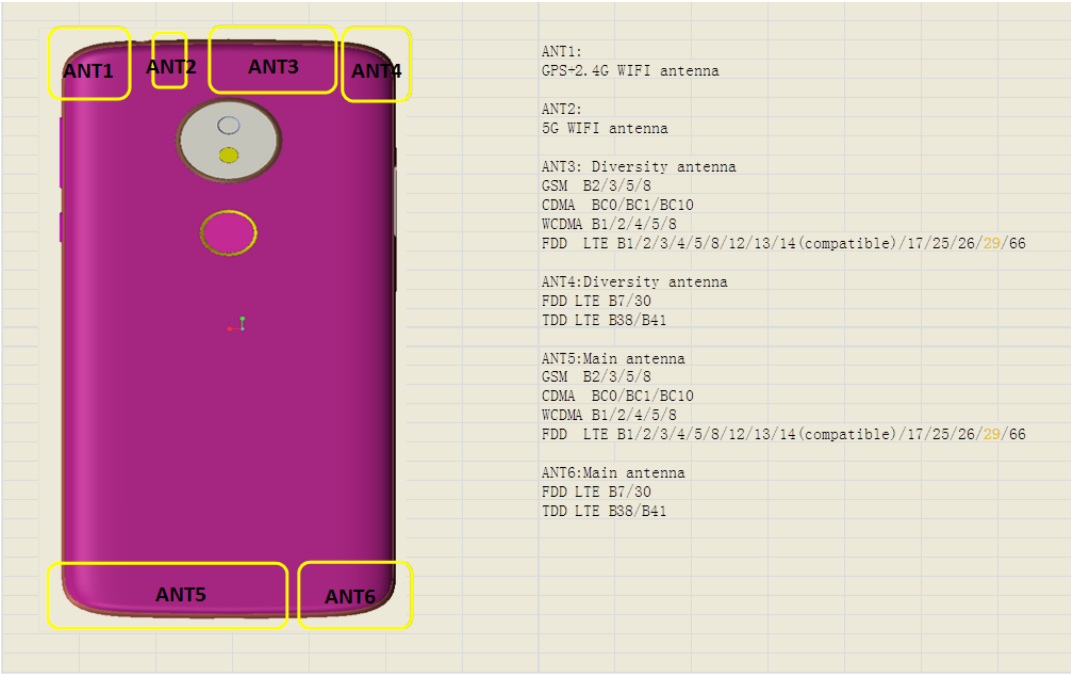
The detail differences between variant and original as below:

◆ Add 2<sup>nd</sup> source suppliers component

| component       | Original Sample                               | Variant Sample 1                             | Variant Sample 2                             | Variant Sample 3                             | Variant Sample 4                             |
|-----------------|-----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| CPU             | Qualcomm<br>MSM-8920-9-720BNSP-<br>TR-00-0-AA | Qualcomm<br>MSM-8953-2-857NSP-T<br>R-01-0-AB | Qualcomm<br>MSM-8953-2-857NSP-T<br>R-01-0-AB | Qualcomm<br>MSM-8953-2-857NSP-T<br>R-01-0-AB | Qualcomm<br>MSM-8953-2-857NSP-TR<br>-01-0-AB |
| Front<br>Camera | Kingcome<br>06B5-L3100FF                      | Kingcome<br>06B5-L3100FF                     | Holitech<br>PLQ8816M                         | Kingcome<br>06B5-L3100FF                     | Holitech<br>PLQ8816M                         |
| Rear<br>Camera  | Truly<br>CMC958-B13BA-E                       | Truly<br>CMC958-B13BA-E                      | Holitech<br>TLQ8817M                         | Truly<br>CMC958-B13BA-E                      | Holitech<br>TLQ8817M                         |
| Memory          | Samsung<br>KMGX6001BM-B514                    | Samsung<br>KMGX6001BM-B514                   | Hynix<br>H9TQ26ADFTBCUR-KUM                  | Samsung<br>KMQE60013M-B318                   | Micron<br>MT29TZZZ5D6DKFRL-10<br>7W.9A6      |
| Battery         | SCUD<br>BL270 3.85V 4000mAh                   | SCUD<br>BL270 3.85V 4000mAh                  | ATL<br>BL270 3.85V 4000mAh                   | SCUD<br>BL270 3.85V 4000mAh                  | ATL<br>BL270 3.85V 4000mAh                   |
| PCB             | EEK<br>LLDM311B6-5                            | EEK<br>LLDM311B6-5                           | MEIKO<br>LLDM311B6-5                         | EEK<br>LLDM311B6-5                           | MEIKO<br>LLDM311B6-5                         |
| LCM             | Tianma<br>TM057JVSS12-00                      | Tianma<br>TM057JVSS12-00                     | DJN<br>98-03057-6483B-H                      | Tianma<br>TM057JVSS12-00                     | DJN<br>98-03057-6483B-H                      |
| Motor           | AWA<br>FS-3032                                | AWA<br>FS-3032                               | DMEGC CHENJI<br>DM-YX416-2                   | AWA<br>FS-3032                               | DMEGC CHENJI<br>DM-YX416-2                   |
| FPS             | O-film<br>ETW-0898-03                         | O-film<br>ETW-0898-03                        | Kerr<br>9111-040006201                       | O-film<br>ETW-0898-03                        | Kerr<br>9111-040006201                       |

◆ Antenna difference

Sample 1 and 3 in the variant 4 Sample files are different from 5G WiFi Pattern, but others are the same as the original ones.



Except listings above, the others are all the same.

Should you have any questions or comments regarding this matter, please have my best attention.

Sincerely yours,

Dai Lihua

Contact Person: Dai Lihua  
COMPANY: Motorola Mobility LLC.  
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E-Mail: dailh@lenovo.com