



# Variant FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola, Lenovo  
**MODEL NAME** : 9850  
**FCC ID** : IHDT56VF4  
**STANDARD** : 47 CFR Part 2, 22(H), 27(M)  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)

This is variant report which is only valid together with the original test report. The product was received on Dec. 13, 2016 and completely tested on Dec. 18, 2016. We, SPORTON INTERNATIONAL (KUNSHAN) 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ISSUED DATE   |
|------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| FG6D1302B  | Rev. 01 | This is a variant report for 9850, the product equality declaration could be referred to Appendix D. Based on the similarity between current and previous, only the worse cases of Conducted Power, EIRP and Radiated Spurious Emission from original test report (Sporton Report Number FG693004-03B) were verified for the differences. The Conducted item of LTE band7 re-use data collected on Model: 9847, FCC ID: IHDT56VF2 (Sporton Report Number FG6D1304B). | Jan. 18, 2017 |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |

**SUMMARY OF TEST RESULT**

| Report Section | FCC Rule                | Description                                  | Limit                               | Result | Remark                                     |
|----------------|-------------------------|----------------------------------------------|-------------------------------------|--------|--------------------------------------------|
| 0              | §2.1046                 | Conducted Output Power                       | Reporting Only                      | PASS   | -                                          |
|                | §27.50(h)(2)            | Equivalent Isotropic Radiated Power (Band 7) | EIRP < 2Watt                        | PASS   |                                            |
| 4.4            | §2.1053<br>§27.53(m)(4) | Radiated Spurious Emission (Band 7)          | < 55+10log <sub>10</sub> (P[Watts]) | PASS   | Under limit<br>27.30 dB at<br>7576.000 MHz |



# 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, Lenovo                                                                                                                                                                              |
| Model Name                      | 9850                                                                                                                                                                                          |
| FCC ID                          | IHDT56VF4                                                                                                                                                                                     |
| EUT supports Radios application | GSM/GPRS/EGPRS/WCDMA/HSPA/<br>HSPA+(16QAM uplink is not supported)/DC-HSDPA/LTE<br>WLAN2.4GHz 802.11b/g/n HT20<br>WLAN5GHz 802.11a/n HT20/HT40<br>Bluetooth v3.0+EDR<br>Bluetooth v4.0/4.2 LE |
| S/N Code                        | Radiation: N/A                                                                                                                                                                                |
| HW Version                      | DVT2(V5.0)                                                                                                                                                                                    |
| SW Version                      | cedric-userdebug 7.0 NPP25.127 859 intcfg,test-keys                                                                                                                                           |
| EUT Stage                       | Identical Prototype                                                                                                                                                                           |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                     |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Tx Frequency                            | LTE Band 5 : 824.7 MHz ~ 848.3 MHz<br>LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz<br>LTE Band 38 : 2572.5MHz ~ 2617.5MHz                   |
| Rx Frequency                            | LTE Band 5 : 869.7 MHz ~ 893.3 MHz<br>LTE Band 7 : 2622.5MHz ~ 2687.5 MHz<br>LTE Band 38 : 2572.5MHz ~ 2617.5MHz                    |
| Bandwidth                               | LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz<br>LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz |
| Maximum Output Power to Antenna         | LTE Band 7 : 23.73 dBm                                                                                                              |
| Antenna Gain                            | LTE Band 7 : -1.24 dBi                                                                                                              |
| Type of Modulation                      | QPSK / 16QAM                                                                                                                        |

## 1.5 Specification of Accessory

| Specification of Accessory |                  |                                                     |            |                                |
|----------------------------|------------------|-----------------------------------------------------|------------|--------------------------------|
| AC Adapter 1               | Brand Name       | Motorola (Acbel)                                    | Model Name | C-P37                          |
|                            | Power Rating     | I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc, 2000mA        |            |                                |
| AC Adapter 2               | Brand Name       | Motorola (Salom)                                    | Model Name | SSW-2919UK C-P37<br>SPN5940A   |
|                            | Power Rating     | I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc, 2000mA        |            |                                |
| AC Adapter 3               | Brand Name       | Motorola (Salom)                                    | Model Name | SSW-2919EU C-P36<br>SPN5944A   |
|                            | Power Rating     | I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc, 2000mA        |            |                                |
| AC Adapter 4               | Brand Name       | Motorola (Acbel)                                    | Model Name | C-P35                          |
|                            | Power Rating     | I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc, 2000mA        |            |                                |
| AC Adapter 5               | Brand Name       | Motorola (Salom)                                    | Model Name | SSW-2919UMTJ C-P35<br>SPN5945A |
|                            | Power Rating     | I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc, 2000mA        |            |                                |
| AC Adapter 6               | Brand Name       | Motorola (Acbel)                                    | Model Name | C-P48                          |
|                            | Power Rating     | I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc, 2000mA        |            |                                |
| AC Adapter 7               | Brand Name       | Motorola (Salom)                                    | Model Name | SSW-2919AU C-P48<br>SPN5953A   |
|                            | Power Rating     | I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc, 2000mA        |            |                                |
| Battery 1                  | Brand Name       | Motorola (ATL)                                      | Model Name | GK40                           |
|                            | Power Rating     | 3.8Vdc, 2685/2800mAh<br>(Min/Typ)                   | Type       | Li-ion                         |
| Battery 2                  | Brand Name       | Motorola (Sunwoda)                                  | Model Name | GK40                           |
|                            | Power Rating     | 3.8Vdc, 2685/2800mAh<br>(Min/Typ)                   | Type       | Li-ion                         |
| Earphone                   | Brand Name       | Motorola                                            | Model Name | SJYN1181B                      |
|                            | Signal Line Type | 1.2 meter, non-shielded cable, without ferrite core |            |                                |
| USB Cable 1                | Brand Name       | Motorola (Liqi)                                     | Model Name | L25W-051000100AL               |
|                            | Signal Line Type | 1.0 meter, non-shielded cable, without ferrite core |            |                                |
| USB Cable 2                | Brand Name       | Motorola (Fukangyuan)                               | Model Name | F25W-051000100A                |
|                            | Signal Line Type | 1.0 meter, non-shielded cable, without ferrite core |            |                                |



## **1.6 Modification of EUT**

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

## **1.7 Re-use of Measured Data**

### **1.7.1 Introduction Section**

This application re-uses data collected on a similar device. The subject device of this application (Model: 9850, FCC ID: IHDT56VF4) is electrically identical to the reference device (Model: 9847, FCC ID: IHDT56VF2) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 178919 D01.

### **1.7.2 Difference Section**

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., some difference of population/depopulation to enable support of different cellular bands, please refer to the Operational Description.

### **1.7.3 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 radiated spurious emission, the test result were consistent with FCC ID: IHDT56VF2.

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.

### **1.7.4 Reference detail Section:**

| Equipment Class | Reference FCC ID | Folder Test/RF Exposure | Report Title/Section |
|-----------------|------------------|-------------------------|----------------------|
| PCE (LTE Band7) | IHDT56VF2        | Part27M (FG6D1304B)     | Conducted            |

## 1.8 Maximum EIRP Power

| LTE Band 7 |                       | QPSK            | 16QAM           |
|------------|-----------------------|-----------------|-----------------|
| BW (MHz)   | Frequency Range (MHz) | Maximum EIRP(W) | Maximum EIRP(W) |
| 20         | 2510.0 ~ 2560.0       | 0.1774          | 0.1208          |

## 1.9 Testing Location

|                    |                                                                                                                       |                      |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------|
| Test Site          | SPORTON INTERNATIONAL (KUNSHAN) INC.                                                                                  |                      |
| Test Site Location | No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China<br>TEL: +86-0512-5790-0158<br>FAX: +86-0512-5790-0958 |                      |
| Test Site No.      | Sporton Site No.                                                                                                      | FCC Registration No. |
|                    | 03CH03-KS                                                                                                             | 306251               |

## 1.10 Applicable Standards

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

- ♦ 47 CFR Part 2, 22(H), 27(M)
- ♦ ANSI / TIA / EIA-603-D-2010
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

### 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

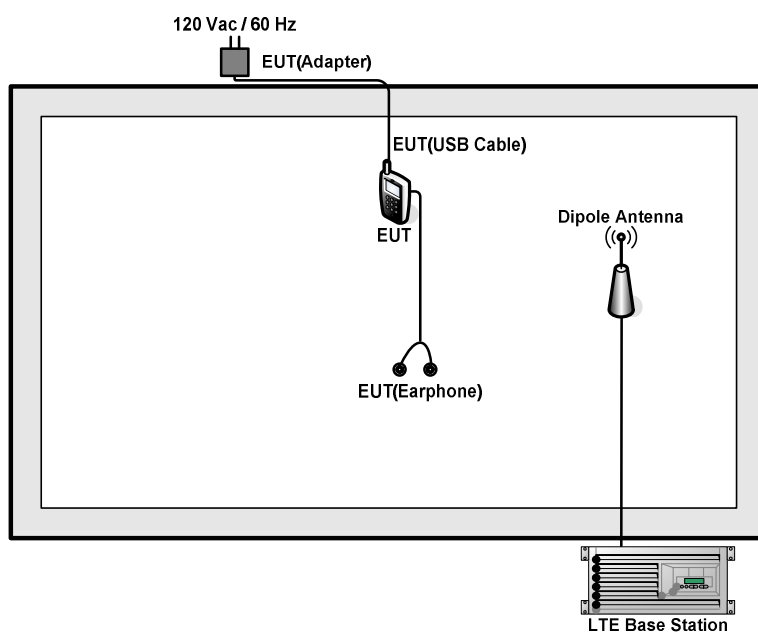
### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

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

| Test Items                 | Band                                                                                                                                                                                                                                                                                                                                                                               | Bandwidth (MHz) |   |   |    |    |    | Modulation |       | RB # |      |      | Test Channel |   |   |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---|---|----|----|----|------------|-------|------|------|------|--------------|---|---|
|                            |                                                                                                                                                                                                                                                                                                                                                                                    | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power          | 7                                                                                                                                                                                                                                                                                                                                                                                  | -               | - | v | v  | v  | v  | v          | v     | v    | v    | v    | v            | v | v |
| E.I.R.P.                   | 7                                                                                                                                                                                                                                                                                                                                                                                  | -               | - |   |    |    | v  | v          | v     | v    |      |      | v            | v | v |
| Radiated Spurious Emission | 7                                                                                                                                                                                                                                                                                                                                                                                  | -               | - |   |    |    | v  | v          |       | v    |      |      |              | v |   |
| Note                       | 1. The mark “v” means that this configuration is chosen for testing<br>2. The mark “-” means that this bandwidth is not supported.<br>3. 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. |                 |   |   |    |    |    |            |       |      |      |      |              |   |   |

## 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 |



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

| LTE Band 7 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 20850  | 21100  | 21350   |
|                                       | Frequency              | 2510   | 2535   | 2560    |
| 15                                    | Channel                | 20825  | 21100  | 21375   |
|                                       | Frequency              | 2507.5 | 2535   | 2562.5  |
| 10                                    | Channel                | 20800  | 21100  | 21400   |
|                                       | Frequency              | 2505   | 2535   | 2565    |
| 5                                     | Channel                | 20775  | 21100  | 21425   |
|                                       | Frequency              | 2502.5 | 2535   | 2567.5  |

### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2 Test Setup

##### 3.2.1 Conducted Output Power



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

### 3.4 Conducted Output Power and EIRP

#### 3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The EIRP of mobile transmitters must not exceed 2 Watts for Band 7.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

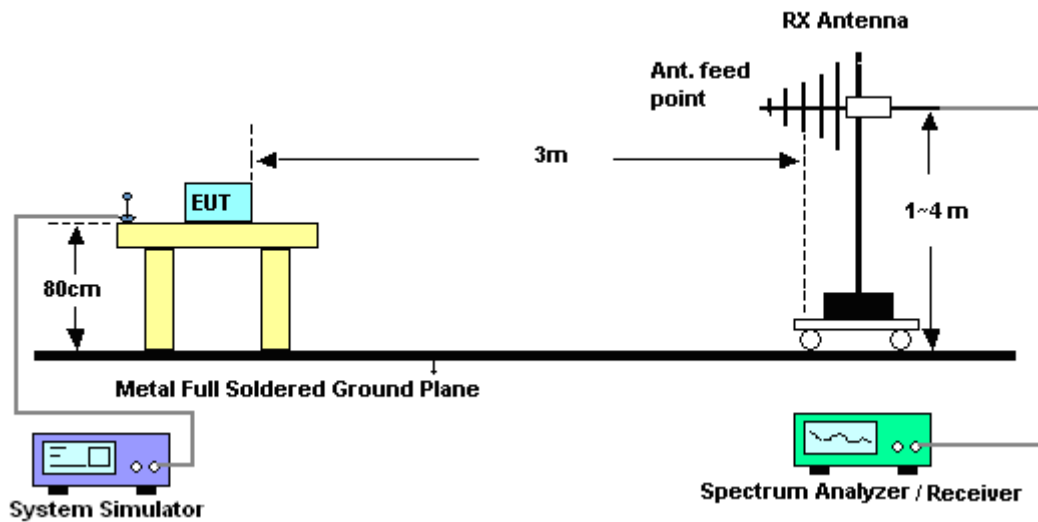
## 4 Radiated Test Items

### 4.1 Measuring Instruments

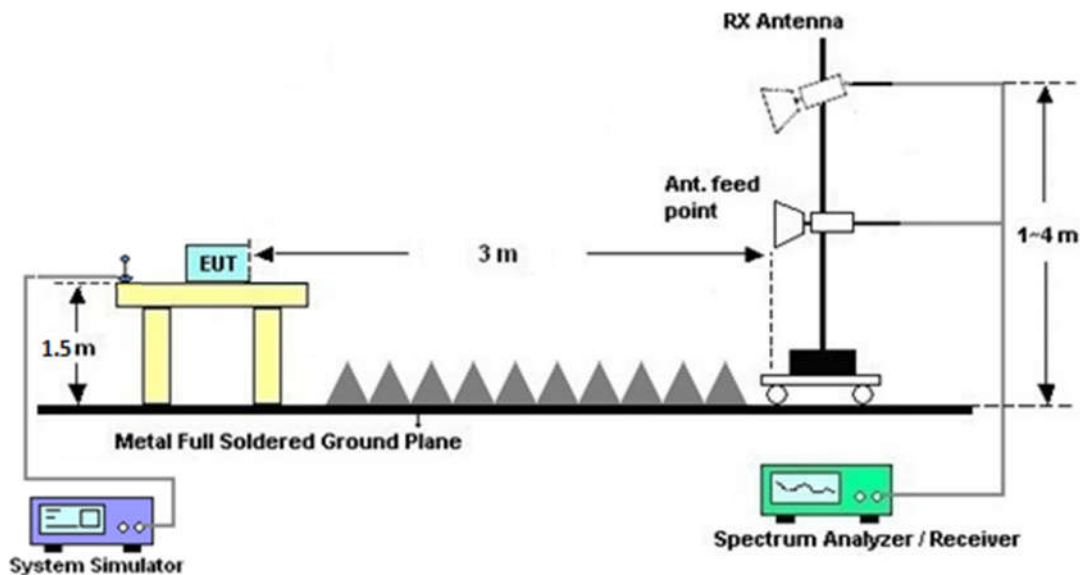
See list of measuring instruments of this test report.

### 4.2 Test Setup

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



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

## **4.4 Radiated Spurious Emission**

### **4.4.1 Description of Radiated Spurious Emission**

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-D-2010. 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  $43 + 10 \log (P)$  dB.

For Band 7

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  $55 + 10 \log (P)$  dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### **4.4.2 Test Procedures**

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. 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.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. 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.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

12. For Band 7:

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)

$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$



## 5 List of Measuring Equipment

| Instrument            | Manufacturer | Model No.     | Serial No. | Characteristics | Calibration Date | Test Date     | Due Date      | Remark                |
|-----------------------|--------------|---------------|------------|-----------------|------------------|---------------|---------------|-----------------------|
| EXA Spectrum Analyzer | Keysight     | N9010A        | MY55150244 | 10Hz~44GHz      | Apr. 22, 2016    | Dec. 18, 2016 | Apr. 21, 2017 | Radiation (03CH03-KS) |
| Bilog Antenna         | TeseQ        | CBL6112D      | 35406      | 25MHz~2GHz      | Apr. 16, 2016    | Dec. 18, 2016 | Apr. 15, 2017 | Radiation (03CH03-KS) |
| Horn Antenna          | Schwarzbeck  | BBHA9120D     | 9120D-1356 | 1GHz~18GHz      | Apr. 16, 2016    | Dec. 18, 2016 | Apr. 15, 2017 | Radiation (03CH03-KS) |
| SHF-EHF Horn          | Schwarzbeck  | BBHA 9170     | BBHA170249 | 15GHz~40GHz     | Mar. 03, 2016    | Dec. 18, 2016 | Mar. 02, 2017 | Radiation (03CH03-KS) |
| Amplifier             | SONOMA       | 310N          | 187289     | 9kHz~1GHz       | Aug. 09, 2016    | Dec. 18, 2016 | Aug. 08, 2017 | Radiation (03CH03-KS) |
| Amplifier             | MITEQ        | TTA1840-35-HG | 1887435    | 18GHz~40GHz     | Jan. 20, 2016    | Dec. 18, 2016 | Jan. 19, 2017 | Radiation (03CH03-KS) |
| Amplifier             | Agilent      | 8449B         | 3008A02370 | 1GHz~26.5GHz    | Oct. 13, 2016    | Dec. 18, 2016 | Oct. 12, 2017 | Radiation (03CH03-KS) |
| AC Power Source       | Chroma       | 61601         | F104090004 | N/A             | NCR              | Dec. 18, 2016 | NCR           | Radiation (03CH03-KS) |
| Turn Table            | ChamPro      | EM 1000-T     | 060762-T   | 0~360 degree    | NCR              | Dec. 18, 2016 | NCR           | Radiation (03CH03-KS) |
| Antenna Mast          | ChamPro      | EM 1000-A     | 060762-A   | 1 m~4 m         | NCR              | Dec. 18, 2016 | NCR           | Radiation (03CH03-KS) |

NCR: No Calibration Required



## 6 Uncertainty of Evaluation

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

|                                                                          |        |
|--------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 2.8 dB |
|--------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

|                                                                          |       |
|--------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 3.3dB |
|--------------------------------------------------------------------------|-------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 23.03  | 22.86  | 23.21   |
| 20                                     | 1       | 49        |        | 23.67  | 23.73  | 23.30   |
| 20                                     | 1       | 99        |        | 23.03  | 22.98  | 23.04   |
| 20                                     | 50      | 0         |        | 22.00  | 22.14  | 21.99   |
| 20                                     | 50      | 24        |        | 22.09  | 22.24  | 22.02   |
| 20                                     | 50      | 50        |        | 22.04  | 22.04  | 21.85   |
| 20                                     | 100     | 0         |        | 22.09  | 22.15  | 21.99   |
| 20                                     | 1       | 0         | 16-QAM | 21.81  | 21.58  | 21.96   |
| 20                                     | 1       | 49        |        | 21.64  | 22.06  | 22.02   |
| 20                                     | 1       | 99        |        | 21.32  | 21.58  | 21.76   |
| 20                                     | 50      | 0         |        | 21.10  | 21.19  | 21.04   |
| 20                                     | 50      | 24        |        | 21.29  | 21.21  | 20.95   |
| 20                                     | 50      | 50        |        | 21.31  | 21.16  | 20.90   |
| 20                                     | 100     | 0         |        | 21.23  | 21.24  | 20.99   |
| 15                                     | 1       | 0         | QPSK   | 23.01  | 23.28  | 23.04   |
| 15                                     | 1       | 37        |        | 23.50  | 23.59  | 23.21   |
| 15                                     | 1       | 74        |        | 23.14  | 23.36  | 22.96   |
| 15                                     | 36      | 0         |        | 22.11  | 22.23  | 22.06   |
| 15                                     | 36      | 20        |        | 22.11  | 22.27  | 21.83   |
| 15                                     | 36      | 39        |        | 22.10  | 22.16  | 21.96   |
| 15                                     | 75      | 0         |        | 22.19  | 22.14  | 21.99   |
| 15                                     | 1       | 0         | 16-QAM | 21.81  | 21.91  | 21.70   |
| 15                                     | 1       | 37        |        | 22.53  | 22.49  | 21.90   |
| 15                                     | 1       | 74        |        | 22.06  | 22.09  | 21.55   |
| 15                                     | 36      | 0         |        | 21.08  | 21.18  | 21.15   |
| 15                                     | 36      | 20        |        | 21.17  | 21.26  | 20.79   |
| 15                                     | 36      | 39        |        | 21.11  | 21.10  | 21.02   |
| 15                                     | 75      | 0         |        | 21.11  | 21.29  | 21.19   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 23.10  | 23.10  | 22.91   |
| 10                                     | 1       | 25        |        | 23.34  | 23.39  | 23.21   |
| 10                                     | 1       | 49        |        | 23.20  | 23.18  | 22.92   |
| 10                                     | 25      | 0         |        | 22.14  | 22.26  | 21.86   |
| 10                                     | 25      | 12        |        | 22.11  | 22.29  | 21.95   |
| 10                                     | 25      | 25        |        | 22.08  | 22.13  | 21.91   |
| 10                                     | 50      | 0         |        | 22.07  | 22.16  | 21.79   |
| 10                                     | 1       | 0         | 16-QAM | 21.14  | 22.37  | 21.84   |
| 10                                     | 1       | 25        |        | 21.76  | 22.46  | 22.13   |
| 10                                     | 1       | 49        |        | 21.50  | 21.58  | 21.21   |
| 10                                     | 25      | 0         |        | 21.09  | 21.14  | 20.84   |
| 10                                     | 25      | 12        |        | 21.32  | 21.35  | 20.99   |
| 10                                     | 25      | 25        |        | 21.15  | 21.17  | 21.05   |
| 10                                     | 50      | 0         |        | 21.21  | 21.17  | 21.02   |
| 5                                      | 1       | 0         | QPSK   | 22.85  | 23.22  | 23.01   |
| 5                                      | 1       | 12        |        | 23.44  | 23.34  | 23.23   |
| 5                                      | 1       | 24        |        | 23.07  | 23.09  | 22.75   |
| 5                                      | 12      | 0         |        | 21.92  | 22.18  | 21.86   |
| 5                                      | 12      | 7         |        | 22.10  | 22.24  | 21.88   |
| 5                                      | 12      | 13        |        | 22.06  | 22.18  | 21.84   |
| 5                                      | 25      | 0         |        | 22.07  | 22.19  | 21.79   |
| 5                                      | 1       | 0         | 16-QAM | 22.02  | 22.25  | 21.73   |
| 5                                      | 1       | 12        |        | 21.79  | 21.51  | 21.95   |
| 5                                      | 1       | 24        |        | 21.72  | 21.41  | 21.44   |
| 5                                      | 12      | 0         |        | 20.95  | 21.31  | 20.99   |
| 5                                      | 12      | 7         |        | 21.00  | 21.21  | 20.97   |
| 5                                      | 12      | 13        |        | 20.82  | 21.35  | 20.84   |
| 5                                      | 25      | 0         |        | 21.07  | 21.16  | 20.91   |

**EIRP**

| LTE Band 7 ( $G_T - L_C = -1.24$ dB) QPSK |        |        |        |
|-------------------------------------------|--------|--------|--------|
| Bandwidth                                 | 20M    |        |        |
| Channel                                   | 20850  | 21100  | 21350  |
|                                           | (Low)  | (Mid)  | (High) |
| Frequency                                 | 2510   | 2535   | 2560   |
| (MHz)                                     |        |        |        |
| Conducted Power (dBm)                     | 23.67  | 23.73  | 23.30  |
| Conducted Power (Watts)                   | 0.2328 | 0.2360 | 0.2138 |
| EIRP(dBm)                                 | 22.43  | 22.49  | 22.06  |
| EIRP(Watts)                               | 0.1750 | 0.1774 | 0.1607 |

| LTE Band 7 ( $G_T - L_C = -1.24$ dB) 16QAM |        |        |        |
|--------------------------------------------|--------|--------|--------|
| Bandwidth                                  | 20M    |        |        |
| Channel                                    | 20850  | 21100  | 21350  |
|                                            | (Low)  | (Mid)  | (High) |
| Frequency                                  | 2510   | 2535   | 2560   |
| (MHz)                                      |        |        |        |
| Conducted Power (dBm)                      | 21.64  | 22.06  | 22.02  |
| Conducted Power (Watts)                    | 0.1459 | 0.1607 | 0.1592 |
| EIRP(dBm)                                  | 20.40  | 20.82  | 20.78  |
| EIRP(Watts)                                | 0.1096 | 0.1208 | 0.1197 |



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

| LTE Band 7 / 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| 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) |
| Middle                    | 5052                 | -61.29          | -25              | -36.29                  | -70.51                  | -67.85                   | 2.41                       | 8.97                        | H                     |
|                           | 7576                 | -53.23          | -25              | -28.23                  | -66.93                  | -62.23                   | 2.86                       | 11.86                       | H                     |
|                           | 10107                | -57.75          | -25              | -32.75                  | -76.10                  | -66.65                   | 3.21                       | 12.11                       | H                     |
|                           | 5052                 | -62.16          | -25              | -37.16                  | -70.87                  | -68.72                   | 2.41                       | 8.97                        | V                     |
|                           | 7576                 | -52.30          | -25              | -27.30                  | -66.93                  | -61.30                   | 2.86                       | 11.86                       | V                     |
|                           | 10107                | -57.09          | -25              | -32.09                  | -76.49                  | -65.99                   | 3.21                       | 12.11                       | V                     |

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



## **Appendix D. Product Equality Declaration**

**Lenovo Mobile Communication Technology Ltd.**

**No.999, Qishan North 2nd Road, Information & Optoelectronics Park, Torch Hi-tech**

**Industry Development Zone, Xiamen, P.R.China**

**Tel: 86-10-58866181; Fax: 86-10-56720293**

**Date: January 13, 2017**

**Product Equality Declaration**

We, Lenovo Mobile Communication Technology Ltd., declare on our sole responsibility for the product of **Dante-EMEA-APAC SKU** as below:

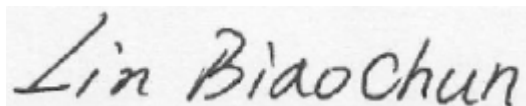
The differences between **Dante-EMEA-APAC SKU** and previous as below:

| Object           | 1 <sup>st</sup> Source spec |          | 2 <sup>nd</sup> Source spec                                        |             |
|------------------|-----------------------------|----------|--------------------------------------------------------------------|-------------|
|                  | Specifications              | Supplier | Specifications                                                     | Supplier    |
| Battery          | GK40                        | Amperex  | GK40                                                               | SUNW ODA    |
| Sim Card         | Dual Sims and Single Sim    | N/A      | Only Single Sim                                                    | N/A         |
| Band7 Duplexer   | B39272B8674P810             | EPCOS    | SAYEY2G53BA0F0AR05                                                 | Murata      |
| Band28A Duplexer | B8538                       | EPCOS    | SAYEY718MBC0F0A                                                    | Murata      |
| Band28B Duplexer | B8539                       | EPCOS    | SAYEY733MBC0F0A                                                    | Murata      |
| USB Cable        | L25W-051000100AL            | Liqi     | F25W-051000100A                                                    | Fukang yuan |
| Charger          | C-P36 (EU)<br>C-P35 (US)    | Acbel    | SSW-2919EU C-P36 SPN5944A (EU)<br>SSW-2919UMTJ C-P35 SPN5945A (US) | Salom       |

Except above, the others are all the same.

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

Sincerely yours,



Contact Person: Lin Biaochun

COMPANY: Motorola Mobility LLC.

Tel:86- 18150396560

E-Mail: Linbc@lenovo.com

**Lenovo Mobile Communication Technology Ltd.**

**No.999, Qishan North 2nd Road, Information & Optoelectronics Park, Torch Hi-tech Industry**

**Development Zone, Xiamen, P.R.China**

**Tel: 86-10-58866181; Fax: 86-10-56720293**

**Date: January 18, 2017**

**Product Equality Declaration**

We, Lenovo Mobile Communication Technology Ltd., declare on our sole responsibility for the product of Motorola 9369, 9847, 9846, 9845, 9850 and 9844 as below:

The differences between Motorola 9369, 9847 (LATAM), 9846 (Brazil), 9845, 9850 (EMEA), and 9844 (India) are as below:

■ RF section

1. Frequency band difference

| Radio Functionality Matrix -Same Row indicates Signal Path is Shared among SKUs |              |           |           |              |
|---------------------------------------------------------------------------------|--------------|-----------|-----------|--------------|
| Bands/Modes                                                                     | LatAm        | Brazil    | India     | EMEA         |
|                                                                                 | (9369, 9847) | (9846)    | (9844)    | (9845, 9850) |
| FCC ID                                                                          | IHDT56VF2    | IHDT56VF3 | IHDT56VF5 | IHDT56VF4    |
| GSM 850                                                                         | X            | X         | X         | X            |
| GSM 900                                                                         | X            | X         | X         | X            |
| GSM1800                                                                         | X            | X         | X         | X            |
| GSM 1900                                                                        | X            | X         | X         | X            |
| LTE 1                                                                           | X            | X         | X         | X            |
| LTE 2                                                                           | X            |           |           |              |
| LTE 3                                                                           | X            | X         | X         | X            |
| LTE 4                                                                           | X            |           |           |              |
| LTE 5                                                                           | X            | X         | X         | X            |
| LTE 7                                                                           | X            | X         |           | X            |
| LTE 8                                                                           |              |           | X         | X            |
| LTE 12                                                                          | X            |           |           |              |
| LTE 17                                                                          | X            |           |           |              |
| LTE 19                                                                          |              |           |           | X            |
| LTE 20                                                                          |              |           |           | X            |
| LTE 28                                                                          | X            | X         |           | X            |
| LTE 38                                                                          |              |           |           | X            |
| WCDMA 1                                                                         | X            | X         | X         | X            |
| WCDMA 2                                                                         | X            | X         |           | X            |
| WCDMA 4                                                                         | X            |           |           |              |
| WCDMA 5                                                                         | X            | X         | X         | X            |
| WCDMA 8                                                                         | X            | X         | X         | X            |
| WCDMA 19                                                                        |              |           |           | X            |

## 2. Board difference

|      |                  | LatAm<br>(9369, 9847)          | Brazil<br>(9846) | India<br>(9844) | EMEA<br>(9845, 9850) |
|------|------------------|--------------------------------|------------------|-----------------|----------------------|
| WWAN | IC               | Same across all SKUs(WTR2965)  |                  |                 |                      |
|      | Component on PCB | See Note1                      |                  |                 |                      |
|      | Antenna          | Same across all SKUs           |                  |                 |                      |
| BT   | IC               | Same across all SKUs           |                  |                 |                      |
|      | Component on PCB | Same across all SKUs           |                  |                 |                      |
|      | Antenna          | Same across all SKUs           |                  |                 |                      |
| WLAN | IC               | Same across all SKUs           |                  |                 |                      |
|      | Component on PCB | Same across all SKUs           |                  |                 |                      |
|      | Antenna          | Same across all SKUs           |                  |                 |                      |
| FM   | IC               | Same across all SKUs           |                  |                 |                      |
|      | Component on PCB | Same across all SKUs           |                  |                 |                      |
|      | Antenna          | Headset is used as the antenna |                  |                 |                      |

### Note 1

- One more SPDT is applied in PRX chain of LatAm SKU, which is used for B1 & B4 co-existence. B1 & B4 share the same PRX port of WTR .Because there is no B4 in EMEA & India & Brazil SKUs, the SPDT can be saved.
- One more SP3T is applied in DRX chain of EMEA SKU, which is used for B7 & B38 co-existence. B7 & B38 share the same DRX port of WTR .Because there is no B38 in LatAm & India & Brazil SKUs, the SP3T can be saved.
- One more SPDT is applied in PRX chain of EMEA SKU, which is used for B38 & B40 co-existence . B38 & B40 share the same PRX port of WTR .When there is no B38 in India & Brazil & LatAm SKUs, the SPDT can be saved.
- One more SPDT is applied in DRX chain of EMEA & LatAm SKUs, which is used for B20/B28 co-existence or B12(17)/B28 co-existence. B12(17)/B20 & B28 share the same DRX port of WTR .Because there is no B20/B12(17) in Brazil & India SKUs ,the SPDT can be saved.

■ SW section

For this particular Motorola project SKUs will be sharing one SW release, in which all SKUs will be sharing the same SW image, but different SKUs will load different configurations automatically according to each HW design.

■ Mechanical section

There is no difference in mechanical design and materials used for all SKUs of Dante. There are differences in terms of memory configuration, number of SIMs supported and material vendors across different SKUs.

DVT 2 Samples,

| RF Variant | eMCP Capacity | eMCP Vendor& Model          | Front camera Vendor& Model | Rear camera Vendor& Model | # Sims | Marketing Model # |
|------------|---------------|-----------------------------|----------------------------|---------------------------|--------|-------------------|
| LatAm      | 2G+32G        | Hynix<br>H9TQ26ABJTBCUR-KUM | O-film<br>L5695F70         | Sunny<br>F13N09U-200      | 1      | 9847              |
|            | 2G+16G        | Samsung<br>KMQE10013M-B318  | Sunny<br>D5V16C-0JG        | O-film<br>L258A70         | 2      | 9369              |
| Brazil     | 2G+32G        | Samsung<br>KMQX10013M-B419  | O-film<br>L5695F70         | Sunny<br>F13N09U-200      | 2      | 9846              |
| EMEA       | 3G+16G        | Samsung<br>KMRE1000BM-B512  | Sunny<br>D5V16C-0JG        | O-film<br>L258A70         | 1      | 9850              |
|            | 3G+16G        | Hynix<br>H9TQ17ADFTACUR-KUM | O-film<br>L5695F70         | Sunny<br>F13N09U-200      | 2      | 9845              |
| India      | 3G+16G        | Samsung<br>KMRE1000BM-B512  | O-film<br>L5695F70         | Sunny<br>F13N09U-200      | 2      | 9844              |

DVT 3 Samples,

| RF Variant | eMCP Capacity | eMCP Vendor& Model         | Front camera Vendor& Model | Rear camera Vendor& Model | # Sims | Marketing Model # |
|------------|---------------|----------------------------|----------------------------|---------------------------|--------|-------------------|
| LatAm      | 2G+16G        | Samsung<br>KMQE10013M-B318 | Sunny<br>D5V16C-0JG        | O-film<br>L258A70         | 1      | 9847              |
| Brazil     | 2G+32G        | Samsung<br>KMQX10013M-B419 | Sunny<br>D5V16C-0JG        | O-film<br>L258A70         | 2      | 9846              |
| EMEA       | 2G+16G        | Samsung<br>KMQE10013M-B318 | Sunny<br>D5V16C-0JG        | O-film<br>L258A70         | 1      | 9850              |
| India      | 3G+16G        | Samsung<br>KMRE1000BM-B512 | O-film<br>L5695F70         | Sunny<br>F13N09U-200      | 2      | 9844              |

Except for difference listed above:

- RF trace: same across LatAm, Brazil, India, EMEA SKUs.
- PCB layout: same across LatAm, Brazil, India, EMEA SKUs.
- WLAN/BT antenna type, antenna pattern, antenna location and chipset: Same across LatAm, Brazil, India, EMEA SKUs.
- LatAm, Brazil, India, EMEA SKUs have the same primary antenna and the same diversity GPS antenna.
- Compared with DVT 2 samples, MURATA band 7 and band 28 duplexers are used in DVT 3 samples instead of Epcos duplexers for EMEA, LatAm and Brazil SKUs.
- Second source accessories like Fukangyuan USB cable, Salom adaptor and Sunwoda battery are bundled with DVT 3 samples, compared with those used for DVT 2 samples, like Liqi USB cable, Acbel adaptor and ATL battery.

### 3 • Overview of the proposed data re-use plan

| Radio Functionality Matrix -Same Row indicates Signal Path is Shared among SKUs |                                                                                         |                                                                                                                                                 |                                                                                          |                                                                                                                                                 |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Bands / Modes                                                                   | LatAm (9369, 9847)                                                                      | Brazil (9846)                                                                                                                                   | India (9844)                                                                             | EMEA (9845, 9850)                                                                                                                               |
| GSM 850                                                                         | RF: verified conducted power, ERP and RSE from original SKU<br>SAR: Verified Worse mode | RF: verified conducted power, ERP and RSE from original SKU<br>SAR: Verified Worse mode                                                         | RF: verified conducted power, ERP and RSE from original SKU<br>SAR: Verified Worse mode  | RF: verified conducted power, ERP and RSE from original SKU<br>SAR: Verified Worse mode                                                         |
| GSM1900                                                                         | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                     | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                                                                             | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                      | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                                                                             |
| LTE 2                                                                           | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                     |                                                                                                                                                 |                                                                                          |                                                                                                                                                 |
| LTE 4                                                                           | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                     |                                                                                                                                                 |                                                                                          |                                                                                                                                                 |
| LTE 5                                                                           | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                     | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                                                                             | RF: verified conducted power, EIRP and RSE from original SKU<br>SAR: Verified Worse mode | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                                                                             |
| LTE 7                                                                           | Full tested since change the DPX SAR power full test and verified worse mode            | RF: Verified worse mode for conducted power, EIRP and RSE<br>Re-used Part 27M conducted test results from Latam SKU<br>SAR: Verified Worse mode |                                                                                          | RF: Verified worse mode for conducted power, EIRP and RSE<br>Re-used Part 27M conducted test results from Latam SKU<br>SAR: Verified Worse mode |
| LTE 12                                                                          | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                     |                                                                                                                                                 |                                                                                          |                                                                                                                                                 |
| LTE 17                                                                          | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                     |                                                                                                                                                 |                                                                                          |                                                                                                                                                 |
| LTE 38                                                                          |                                                                                         |                                                                                                                                                 |                                                                                          | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                                                                             |
| WCDMA Band 2                                                                    | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                     | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                                                                             |                                                                                          | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                                                                             |
| WCDMA Band 4                                                                    | RF: Not the worse band, so not verified<br>SAR: Verified Worse mode                     |                                                                                                                                                 |                                                                                          |                                                                                                                                                 |
| WCDMA Band 5                                                                    | RF: Not the worse band, so not verified<br>SAR: Verified Worse                          | RF: Not the worse band, so not verified<br>SAR: Verified Worse                                                                                  | RF: Not the worse band, so not verified<br>SAR: Verified Worse                           | RF: Not the worse band, so not verified<br>SAR: Verified                                                                                        |

|                | mode                                                                                                                                                                                 | mode                                                                                                             | mode                                                                                                             | Worse mode                                                                                                          |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| WLAN<br>2.4GHz | Worse case of RSE<br>and SAR from<br>original SKU                                                                                                                                    | Worse case of RSE<br>and SAR from<br>original SKU                                                                | Worse case of RSE<br>and SAR from<br>original SKU                                                                | Worse case of RSE<br>and SAR from<br>original SKU                                                                   |
| WLAN<br>5GHz   | Reduce the<br>Conducted Power of<br>band3, retest<br>Conducted item for<br>this band and<br>verified the<br>CH64/100 of 5G<br>WIFI Worse case of<br>RSE and SAR from<br>original SKU | Worse case of RSE<br>and SAR from<br>original SKU<br>Conducted item of<br>WLAN5GHz Band III<br>re-use Latam data | Worse case of RSE<br>and SAR from<br>original SKU<br>Conducted item of<br>WLAN5GHz Band III<br>re-use Latam data | Worse case of RSE<br>and SAR from<br>original SKU<br>Conducted item of<br>WLAN5GHz Band<br>III re-use Latam<br>data |
| Bluetooth      | Worse case of RSE<br>from original SKU                                                                                                                                               | Worse case of RSE<br>from original SKU                                                                           | Worse case of RSE<br>from original SKU                                                                           | Worse case of RSE<br>from original SKU                                                                              |

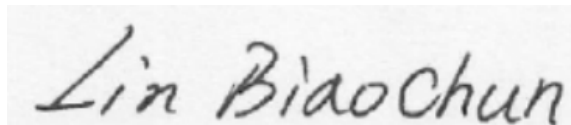
Note:

1. According to the difference between SA sample and original sample for each SKU, verified worse mode for EMC/RF/SAR.
2. For RF test data for Brazil, EMEA SKU re-used for part 27, 15E, spot check is performed to justify the re-used data is representative form Latam SKU.
3. FCC Part 15B verified worse case based on original each SKU.

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,



Contact Person: Lin BiaoChun

COMPANY: Motorola Mobility LLC.

Tel:86- 18150396560

E-Mail: Linbc@lenovo.com



## **Appendix E. Reference Report**

Please refer to Sporton report number FG693004-03B which is issued separately.

Please refer to Sporton report number FG6D1304B as bellow.