

# FCC PART 15B, CLASS B TEST REPORT

For

### **SWAGTEK**

10205 NW 19th Street STE101, Miami, Florida, United States

FCC ID: 055T502M1

**Product Type:** Report Type: Original Report **3G MOBILE PHONE** Sonia Thou **Test Engineer:** Sonia Zhou **Report Number:** RSZ151216008-00A **Report Date:** 2016-01-12 Rocky Kang Rocky Kang **Reviewed By:** RF Engineer Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building **Prepared By:** ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

**Note**: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

# **TABLE OF CONTENTS**

| GENERAL INFORMATION                                | 3  |
|----------------------------------------------------|----|
| PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) | 3  |
| OBJECTIVE                                          |    |
| RELATED SUBMITTAL(S)/GRANT(S)                      | 3  |
| TEST FACILITY                                      | 3  |
| SYSTEM TEST CONFIGURATION                          | 4  |
| DESCRIPTION OF TEST CONFIGURATION                  | 4  |
| EUT Exercise Software                              |    |
| SPECIAL ACCESSORIES                                | 4  |
| EQUIPMENT MODIFICATIONS                            |    |
| SUPPORT EQUIPMENT LIST AND DETAILS                 |    |
| External I/O Cable                                 |    |
| BLOCK DIAGRAM OF TEST SETUP                        | 5  |
| SUMMARY OF TEST RESULTS                            | 6  |
| FCC §15.107 – AC LINE CONDUCTED EMISSIONS          | 7  |
| APPLICABLE STANDARD                                |    |
| MEASUREMENT UNCERTAINTY                            |    |
| EUT SETUP                                          |    |
| EMI TEST RECEIVER SETUP.                           |    |
| TEST PROCEDURE                                     |    |
| TEST EQUIPMENT LIST AND DETAILS                    |    |
| CORRECTED FACTOR & MARGIN CALCULATION              | 8  |
| TEST RESULTS SUMMARY                               |    |
| TEST DATA                                          | 9  |
| FCC §15.109 - RADIATED SPURIOUS EMISSIONS          | 12 |
| APPLICABLE STANDARD                                | 12 |
| MEASUREMENT UNCERTAINTY                            |    |
| EUT SETUP                                          | 12 |
| EMI TEST RECEIVER SETUP                            |    |
| Test Procedure                                     |    |
| TEST EQUIPMENT LIST AND DETAILS                    |    |
| CORRECTED AMPLITUDE & MARGIN CALCULATION           |    |
| TEST RESULTS SUMMARY                               |    |
| TEST DATA                                          | 15 |
| PRODUCT SIMILARITY DECLARATION LETTER              | 16 |

#### **GENERAL INFORMATION**

#### **Product Description for Equipment under Test (EUT)**

The SWAGTEK's product, model number: Mantra (FCC ID: O55T502M1) or the "EUT" in this report was a 3G MOBILE PHONE, which was measured approximately: 145 mm (L) × 75 mm (W) × 10 mm (H), rated with input voltage: DC 3.7 V rechargeable battery or DC 5.0 V from adapter. The highest operating frequency is 2.48 GHz.

Report No.: RSZ151216008-00A

Adapter Information:

Model: Fire

Input: AC 100-240V, 50-60Hz, 0.2A

Output: DC 5.0V, 1.0A

Note: This series products model: LOGIC X5M and Mantra are identical schematics, the differences among them are model number and trade name due to marketing purpose, and model Mantra was selected for fully testing, the detailed information can be referred to the attached declaration letter that stated and guaranteed by the applicant.

\*All measurement and test data in this report was gathered from production sample serial number: 1507410 (Assigned by Shenzhen BACL). The EUT supplied by the applicant was received on 2015-12-16.

#### **Objective**

This test report is prepared on behalf of *SWAGTEK* in accordance with Part 2-Subpart J, Part 15-Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

#### Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS & DSS and Part 22H & 24E PCE submissions with FCC ID: O55T502M1.

#### **Test Facility**

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on October 31, 2013. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FCC Part 15B, Class B Page 3 of 16

#### **SYSTEM TEST CONFIGURATION**

#### **Description of Test Configuration**

The system was configured for testing in a manufacturer testing fashion.

EUT operation mode: Downloading (data transfer with computer)

#### **EUT Exercise Software**

No exercise software was used.

#### **Special Accessories**

No special accessory.

#### **Equipment Modifications**

No modification was made to the EUT tested.

#### **Support Equipment List and Details**

| Manufacturer | Description   | Model       | Serial Number            |
|--------------|---------------|-------------|--------------------------|
| DELL         | PC            | VOSTRO 220S | 127BP2X                  |
| DELL         | LCD Monitor   | E178WFPC    | CN-OWY564-64180-7C4-2SQH |
| DELL         | Keyboard      | L100        | CNORH656658907BL05DC     |
| DELL         | Mouse         | MOC5UO      | G1900NKD                 |
| SAST         | Modem         | AEM-2100    | 0293                     |
| Kingston     | Micro SD card | 4 GB        | N/A                      |
| PHILIPS      | Earphone      | SBCHP250    | N/A                      |

Report No.: RSZ151216008-00A

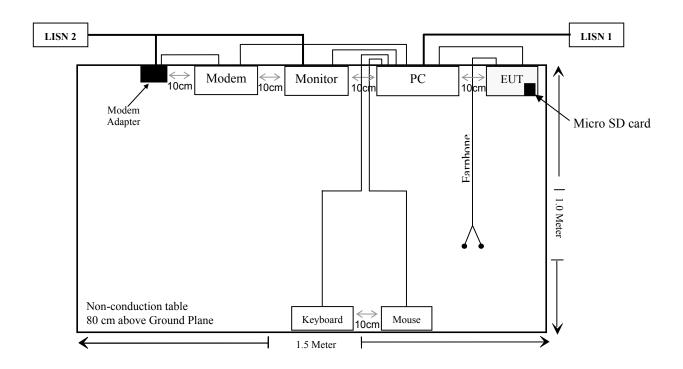
FCC Part 15B, Class B Page 4 of 16

#### **External I/O Cable**

| Cable Description                      | Length (m) | From/Port | То          |
|----------------------------------------|------------|-----------|-------------|
| Un-Shielding Detachable USB Cable      | 1.5        | Host PC   | Mouse       |
| Shielding Detachable Serial Cable      | 1.2        | Host PC   | Modem       |
| Shielding Detachable K/B Cable         | 1.5        | Host PC   | Keyboard    |
| Shielding Detachable VGA Cable         | 1.5        | Host PC   | LCD Monitor |
| Un-Shielding Detachable Earphone Cable | 1.1        | EUT       | Earphone    |
| Un-Shielding Detachable USB Cable      | 1.0        | EUT       | PC          |

Report No.: RSZ151216008-00A

#### **Block Diagram of Test Setup**



FCC Part 15B, Class B Page 5 of 16

## **SUMMARY OF TEST RESULTS**

| FCC Rules | Description of Test         | Results    |
|-----------|-----------------------------|------------|
| §15.107   | AC Line Conducted Emissions | Compliance |
| §15.109   | Radiated Spurious Emissions | Compliance |

Report No.: RSZ151216008-00A

FCC Part 15B, Class B Page 6 of 16

#### FCC §15.107 – AC LINE CONDUCTED EMISSIONS

#### **Applicable Standard**

According to FCC §15.107

#### **Measurement Uncertainty**

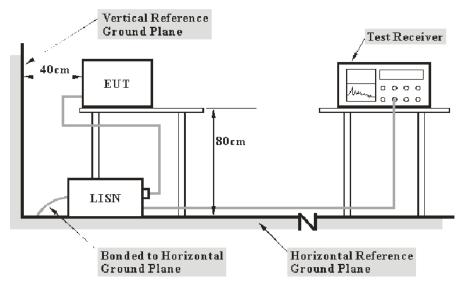
Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN/ISN and receiver, LISN/ISN voltage division factor, LISN/ISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report

Report No.: RSZ151216008-00A

| Port     | Measurement uncertainty                |
|----------|----------------------------------------|
| AC Mains | 3.26 dB (k=2, 95% level of confidence) |
| CAT 3    | 3.70 dB (k=2, 95% level of confidence) |
| CAT 5    | 3.86 dB (k=2, 95% level of confidence) |
| CAT 6    | 4.64 dB (k=2, 95% level of confidence) |

#### **EUT Setup**



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with per ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

The spacing between the peripherals was 10 cm.

FCC Part 15B, Class B Page 7 of 16

#### **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

Report No.: RSZ151216008-00A

#### **Test Procedure**

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

#### **Test Equipment List and Details**

| Manufacturer    | Description       | Model  | Serial Number              | Calibration<br>Date | Calibration<br>Due Date |
|-----------------|-------------------|--------|----------------------------|---------------------|-------------------------|
| Rohde & Schwarz | EMI Test Receiver | ESCS30 | 100176                     | 2015-06-01          | 2016-05-31              |
| Rohde & Schwarz | LISN              | ENV216 | 3560.6650.12-<br>101613-Yb | 2015-12-01          | 2016-12-01              |
| Rohde & Schwarz | Transient Limiter | ESH3Z2 | DE25985                    | 2015-05-14          | 2016-05-14              |
| Rohde & Schwarz | CE Test software  | EMC 32 | V8.53                      | NCR                 | NCR                     |

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

#### **Corrected Factor & Margin Calculation**

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

FCC Part 15B, Class B Page 8 of 16

#### **Test Results Summary**

According to the recorded data in following table, the EUT complied with the <u>FCC Part 15.107</u>, the worst margin as below:

Report No.: RSZ151216008-00A

#### 11.2 dB at 0.225500 MHz in the Neutral conducted mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL.,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

#### **Test Data**

#### **Environmental Conditions**

| Temperature:       | 25 ℃      |
|--------------------|-----------|
| Relative Humidity: | 51 %      |
| ATM Pressure:      | 101.0 kPa |

The testing was performed by Sonia Zhou on 2016-01-08.

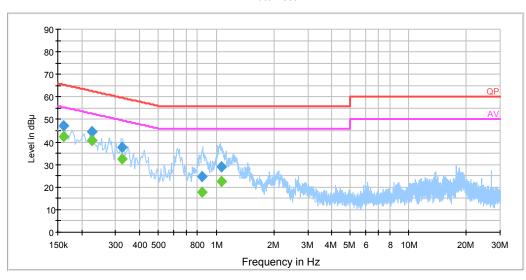
FCC Part 15B, Class B Page 9 of 16

EUT Operation Mode: Downloading

#### AC 120V/60 Hz, Line:

EMI Auto Test L

Report No.: RSZ151216008-00A



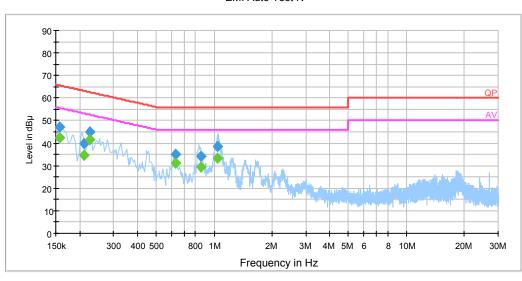
| Frequency<br>(MHz) | Corrected<br>Amplitude<br>(dBµV) | Correction<br>Factor<br>(dB) | Limit<br>(dBµV) | Margin<br>(dB) | Detector<br>(PK/Ave./QP) |
|--------------------|----------------------------------|------------------------------|-----------------|----------------|--------------------------|
| 0.161500           | 47.2                             | 20.0                         | 65.4            | 18.2           | QP                       |
| 0.161500           | 42.5                             | 20.0                         | 55.4            | 12.9           | Ave.                     |
| 0.225500           | 44.5                             | 20.0                         | 62.6            | 18.1           | QP                       |
| 0.225500           | 40.8                             | 20.0                         | 52.6            | 11.8           | Ave.                     |
| 0.225500           | 44.7                             | 20.0                         | 62.6            | 17.9           | QP                       |
| 0.225500           | 40.8                             | 20.0                         | 52.6            | 11.8           | Ave.                     |
| 0.325170           | 37.5                             | 19.9                         | 59.5            | 22.0           | QP                       |
| 0.325170           | 32.5                             | 19.9                         | 49.6            | 17.1           | Ave.                     |
| 0.841250           | 24.5                             | 19.9                         | 56.0            | 31.5           | QP                       |
| 0.841250           | 17.8                             | 19.9                         | 46.0            | 28.2           | Ave.                     |
| 1.069810           | 28.8                             | 20.0                         | 56.0            | 27.2           | QP                       |
| 1.069810           | 22.5                             | 20.0                         | 46.0            | 23.5           | Ave.                     |

FCC Part 15B, Class B Page 10 of 16

#### AC 120V/60 Hz, Neutral:

#### EMI Auto Test N

Report No.: RSZ151216008-00A



| Frequency<br>(MHz) | Corrected<br>Amplitude<br>(dBµV) | Correction<br>Factor<br>(dB) | Limit<br>(dBµV) | Margin<br>(dB) | Detector<br>(PK/Ave./QP) |
|--------------------|----------------------------------|------------------------------|-----------------|----------------|--------------------------|
| 0.157500           | 47.1                             | 20.0                         | 65.6            | 18.5           | QP                       |
| 0.157500           | 42.6                             | 20.0                         | 55.6            | 13.0           | Ave.                     |
| 0.210500           | 39.7                             | 20.0                         | 63.2            | 23.5           | QP                       |
| 0.210500           | 34.6                             | 20.0                         | 53.2            | 18.6           | Ave.                     |
| 0.225500           | 45.0                             | 20.0                         | 62.6            | 17.6           | QP                       |
| 0.225500           | 41.4                             | 20.0                         | 52.6            | 11.2           | Ave.                     |
| 0.632490           | 35.2                             | 19.9                         | 56.0            | 20.8           | QP                       |
| 0.632490           | 31.2                             | 19.9                         | 46.0            | 14.8           | Ave.                     |
| 0.849430           | 34.2                             | 19.9                         | 56.0            | 21.8           | QP                       |
| 0.849430           | 29.6                             | 19.9                         | 46.0            | 16.4           | Ave.                     |
| 1.042190           | 38.4                             | 20.0                         | 56.0            | 17.6           | QP                       |
| 1.042190           | 33.5                             | 20.0                         | 46.0            | 12.5           | Ave.                     |

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
  3) Margin = Limit Corrected Amplitude

FCC Part 15B, Class B Page 11 of 16

#### FCC §15.109 - RADIATED SPURIOUS EMISSIONS

#### **Applicable Standard**

FCC §15.109

#### **Measurement Uncertainty**

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

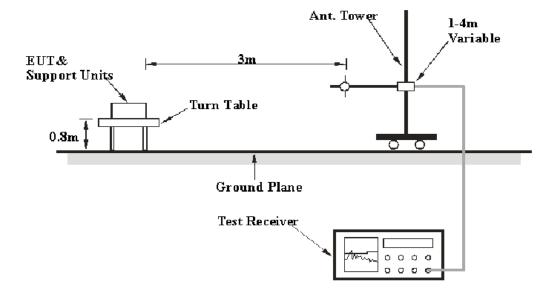
Report No.: RSZ151216008-00A

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown in below table. And the uncertainty will not be taken into consideration for the test data recorded in the report

| Frequency      | Polarity            | Measurement uncertainty                |
|----------------|---------------------|----------------------------------------|
| 30 MHz~200 MHz | Horizontal          | 4.62 dB (k=2, 95% level of confidence) |
| 30 MHZ~200 MHZ | Vertical            | 4.54 dB (k=2, 95% level of confidence) |
| 200 MHz∼1 GHz  | Horizontal          | 4.84 dB (k=2, 95% level of confidence) |
| 200 MHZ~1 GHZ  | Vertical            | 5.91 dB (k=2, 95% level of confidence) |
| 1 GHz~6 GHz    | Horizontal/Vertical | 4.68 dB (k=2, 95% level of confidence) |
| Above 6 GHz    | Horizontal/Vertical | 4.92 dB (k=2, 95% level of confidence) |

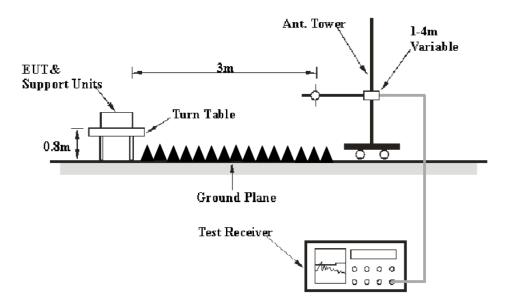
#### **EUT Setup**

Below 1GHz:



FCC Part 15B, Class B Page 12 of 16

Above 1GHz:



Report No.: RSZ151216008-00A

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

#### **EMI Test Receiver Setup**

The system was investigated from 30 MHz to 12.4 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Detector |
|-------------------|---------|-----------|---------|----------|
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz   | 120 kHz | QP       |
| Above 1 CHa       | 1MHz    | 3 MHz     | /       | PK       |
| Above 1 GHz       | 1MHz    | 10 Hz     | /       | Ave.     |

#### **Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

FCC Part 15B, Class B Page 13 of 16

#### **Test Equipment List and Details**

| Manufacturer    | Description        | Model                   | Serial Number | Calibration<br>Date | Calibration<br>Due Date |  |
|-----------------|--------------------|-------------------------|---------------|---------------------|-------------------------|--|
| НР              | Amplifier          | HP8447E                 | 1937A01046    | 2015-05-06          | 2016-05-06              |  |
| Rohde & Schwarz | EMI Test Receiver  | ESCI                    | 101120        | 2015-11-03          | 2016-11-03              |  |
| Sunol Sciences  | Bi-log Antenna     | JB1                     | A040904-2     | 2014-12-07          | 2017-12-06              |  |
| A.H. System     | Horn Antenna       | SAS-200/571             | 135           | 2015-08-18          | 2018-08-17              |  |
| Rohde & Schwarz | Signal Analyzer    | FSIQ26                  | 8386001028    | 2015-12-11          | 2016-12-11              |  |
| Mini            | Pre-amplifier      | ZVA-183-S+              | 5969001149    | 2015-04-23          | 2016-04-23              |  |
| TDK             | Chamber            | Chamber A               | 2#            | 2013-10-15          | 2016-10-15              |  |
| TDK             | Chamber            | Chamber B 1# 2015-07-23 |               | 2015-07-23          | 2018-07-22              |  |
| R&S             | Auto test Software | EMC32                   | V9.10         | NCR                 | NCR                     |  |

Report No.: RSZ151216008-00A

#### **Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

#### **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC §15.109 Class B, the worst margin reading as below:

#### 0.70 dB at 254.869250 MHz in the Horizontal polarization mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

FCC Part 15B, Class B Page 14 of 16

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

#### **Test Data**

#### **Environmental Conditions**

| Temperature:       | 26 ℃      |
|--------------------|-----------|
| Relative Humidity: | 50 %      |
| ATM Pressure:      | 101.0 kPa |

The testing was performed by Sonia Zhou on 2016-01-08.

EUT Operation Mode: Downloading

#### 30 MHz - 12.4 GHz:

|                    | Re             | eceiver                  |                     | Rx Antenna |                | Corrected | Corrected          | FCC Part 15B      |             |
|--------------------|----------------|--------------------------|---------------------|------------|----------------|-----------|--------------------|-------------------|-------------|
| Frequency<br>(MHz) | Reading (dBµV) | Detector<br>(PK/QP/Ave.) | Turntable<br>Degree | Height (m) | Polar<br>(H/V) | Factor    | Amplitude (dBµV/m) | Limit<br>(dBµV/m) | Margin (dB) |
| 30.452625          | 38.07          | QP                       | 44.0                | 1.05       | V              | -0.3      | 37.77              | 40.00             | 2.23        |
| 240.008125         | 37.98          | QP                       | 286.0               | 1.49       | V              | -8.8      | 29.18              | 46.00             | 16.82       |
| 254.869250         | 53.90          | QP                       | 99.0                | 1.14       | Н              | -8.6      | 45.30              | 46.00             | 0.70        |
| 480.346875         | 41.08          | QP                       | 248.0               | 1.06       | Н              | -2.6      | 38.48              | 46.00             | 7.52        |
| 675.372250         | 42.94          | QP                       | 44.0                | 1.06       | Н              | -0.2      | 42.74              | 46.00             | 3.26        |
| 960.191875         | 26.44          | QP                       | 0.0                 | 1.09       | Н              | 4.2       | 30.64              | 54.00             | 23.36       |
| 1525.500000        | 47.25          | PK                       | 217                 | 2.1        | Н              | -10.41    | 36.84              | 74.00             | 37.16       |
| 1525.500000        | 30.26          | Ave.                     | 217                 | 2.1        | Н              | -10.41    | 19.85              | 54.00             | 34.15       |
| 1525.500000        | 45.36          | PK                       | 250                 | 2.3        | V              | -10.41    | 34.95              | 74.00             | 39.05       |
| 1525.500000        | 29.63          | Ave.                     | 250                 | 2.3        | V              | -10.41    | 19.22              | 54.00             | 34.78       |

Report No.: RSZ151216008-00A

#### Note:

- 1) Correction Factor=Antenna factor (RX) + cable loss amplifier factor
- 2) Corrected Amplitude = Correction Factor + Reading
- 3) Margin = Limit Corrected Amplitude

FCC Part 15B, Class B Page 15 of 16

#### PRODUCT SIMILARITY DECLARATION LETTER

SWAGTEK 10205 NW 19th Street STE101,Miami,Florida,United States Tel: 1-305 421 9938 Fax: 1-305 471 9011

Report No.: RSZ151216008-00A

12/28/2015

# **Product Similarity Declaration**

To Whom It May Concern,

We, SWAGTEK, hereby declare that we have a product named as 3G MOBILE PHONE (Model NO.: Mantra) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (LOGIC X5M), on reports and certificate, all the models are identical schematics, except for the differences as below,

1. 1. Different Model No. and different trade names as below:

| Model NO. | Trade Name |  |  |
|-----------|------------|--|--|
| Mantra    | iSWAG      |  |  |
| LOGIC X5M | LOGIC      |  |  |

No other changes are made to them.

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Signature:

Charles Cheng Manager Charles Chery

\*\*\*\*\* END OF REPORT \*\*\*\*\*

FCC Part 15B, Class B Page 16 of 16