

## **TEST REPORT**

No. 2011TAR206

for

#### **TCT Mobile Limited**

## HSDPA/UMTS dual band / GSM four bands mobile phone

Model Name: Brandy Lite A

Marketing Name: one touch 908A

FCC ID: RAD169

with

Hardware Version: PIO

**Software Version: V61S** 

Issued Date: 2011-06-07

#### Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

#### **Test Laboratory:**

DAR accreditation (DIN EN ISO/IEC 17025): No. DGA-PL-114/01-02

FCC 2.948 Listed: No.733176 IC O.A.T.S listed: No.6629A-1

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## 1. Test Laboratory

## 1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT Address: No 52, Huayuan beilu, Haidian District, Beijing, P. R. China

Postal Code: 100191

Telephone: 00861062304633 Fax: 00861062304633

## 1.2. <u>Testing Environment</u>

Normal Temperature:  $15-35^{\circ}$ C Relative Humidity: 20-75%

#### 1.3. Project data

Testing Start Date: Apr 29, 2011
Testing End Date: May 13, 2011

## 1.4. Signature

Liu Baodian

(Prepared this test report)

Sun Xiangqian

(Reviewed this test report)

路城村

Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)



## 2. Client Information

## 2.1. Applicant Information

Company Name: TCT Mobile Limited

Address /Post: 5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,

Pudong Area Shanghai, P.R. China.

City: Shanghai Postal Code: 201203 Country: China

Telephone: +86-21-61460890 Fax: +86-21-61460602

## 2.2. Manufacturer Information

Company Name: TCT Mobile Limited

Address /Post: 5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,

Pudong Area Shanghai, P.R. China.

City: Shanghai Postal Code: 201203 Country: China

Telephone: +86-21-61460890 Fax: +86-21-61460602



## 3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

## 3.1. About EUT

Description HSDPA/UMTS dual band / GSM four bands mobile phone

Model Name one touch 908A

FCC ID RAD169

Extreme vol. Limits 3.5VDC to 4.2VDC (nominal: 3.7VDC)

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MII of People's Republic of China.

## 3.2. Internal Identification of EUT used during the test

EUT ID\* SN or IMEI HW Version SW Version

EUT1 012633000040737 PIO V61S

\*EUT ID: is used to identify the test sample in the lab internally.

## 3.3. Internal Identification of AE used during the test

| AE ID* | Description    |              | SN |
|--------|----------------|--------------|----|
| AE1    | Travel Adapter |              | /  |
| AE2    | Travel Adapter |              | /  |
| AE3    | Travel Adapter |              | /  |
| AE4    | Battery        |              | /  |
| AE5    | USB Cable      |              | /  |
| AE6    | USB Cable      |              | /  |
| AE1    |                |              |    |
| Model  |                | CBA3001AG0C1 |    |

Manufacturer BYD

Length of DC line With 10cm USB Connector

AE2

Model CBA3001AG0C2

Manufacturer Tenpao

Length of DC line With 10cm USB Connector

AE3

Model CBA3000AG0C1

Manufacturer Tenpao

Length of DC line /

AE4

Model CAB31P0000C1

Manufacturer BYD
Capacitance 1300mAh
Nominal Voltage 3.7V

AE5

Model CDA3122001C1

Manufacturer Juwei Length of DC line 150cm



AE6

Model CDA3122001C2

Manufacturer Shenhuai Length of DC line 150cm

\*AE ID: is used to identify the test sample in the lab internally.\*AE ID: is used to identify the test sample in the lab internally.

## **EUT set-ups**

EUT set-up No. Combination of EUT and AE Remarks

 Set.1
 EUT1+ AE1+AE4+AE5/AE6
 - 

 Set.2
 EUT1+ AE2+AE4+AE5/AE6
 - 

 Set.3
 EUT1+ AE3+AE4+AE5/AE6
 - 

## 4. Reference Documents

## 4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference Title Version

FCC Part 15, Subpart B Radio frequency devices July 10, 2008

Edition

ANSI C63.4 Methods of Measurement of Radio-Noise 2003

Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40

GHz



## 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber** (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

| Temperature                       | Min. = 15 °C, Max. = 30 °C                    |
|-----------------------------------|---|
| Relative humidity                 | Min. = 30 %, Max. = 60 %                      |
| Shielding effectiveness           | > 110 dB                                      |
| Electrical insulation             | > 10 kΩ                                       |
| Ground system resistance          | < 0.5 Ω                                       |
| Normalised site attenuation (NSA) | < ±3.2 dB, 10 m distance, from 30 to 1000 MHz |
| Uniformity of field strength      | Between 0 and 6 dB, from 80 to 2000 MHz       |

Control room did not exceed following limits along the EMC testing:

| Temperature              | Min. = 15 $^{\circ}$ C, Max. = 35 $^{\circ}$ C |
|--------------------------|--|
| Relative humidity        | Min. =30 %, Max. = 60 %                        |
| Shielding effectiveness  | > 110 dB                                       |
| Electrical insulation    | > 10 kΩ  |
| Ground system resistance | < 0.5 Ω  |

Conducted chamber did not exceed following limits along the EMC testing:

| Temperature              | Min. = 15 $^{\circ}$ C, Max. = 30 $^{\circ}$ C |
|--------------------------|--|
| Relative humidity        | Min. = 30 %, Max. = 60 %                       |
| Shielding effectiveness  | > 110 dB                                       |
| Electrical insulation    | > 10 kΩ  |
| Ground system resistance | < 0.5 Ω  |

**Fully-anechoic chamber** (6.8 meters **x** 3.08 meters **x** 3.53 meters) did not exceed following limits along the EMC testing:

| Temperature                  | Min. = 15 $^{\circ}$ C, Max. = 30 $^{\circ}$ C |  |  |
|------------------------------|--|--|--|
| Relative humidity            | Min. = 30 %, Max. = 60 %                       |  |  |
| Shielding effectiveness      | > 110 dB                                       |  |  |
| Electrical insulation        | > 10 kΩ  |  |  |
| Ground system resistance     | < 0.5 Ω  |  |  |
| Uniformity of field strength | Between 0 and 6 dB, from 80 to 2000 MHz        |  |  |



## 6. SUMMARY OF TEST RESULTS

| Abbreviations used in this clause: |                |
|------------------------------------|----------------|
| Р                                  | Pass           |
| NA                                 | Not applicable |
| F                                  | Fail           |

| Clause | List               | Clause in FCC rules | Verdict |
|--------|--------------------|---------------------|---------|
| 1      | Radiated Emission  | 15.109(a)           | Р       |
| 2      | Conducted Emission | 15.107(a)           | Р       |



## 7. Test Equipments Utilized

| NO. | Description                                | TYPE          | SERIES<br>NUMBER             | MANUFACTURE | CAL DUE<br>DATE |
|-----|--|---------------|------------------------------|-------------|-----------------|
| 1   | Test Receiver                              | ESCI          | 100344                       | R&S         | 2012-03-12      |
| 2   | Test Receiver                              | ESCI          | 100766                       | R&S         | 2011-12-06      |
| 3   | Test Receiver                              | ESI40         | 831564/002                   | R&S         | 2012-02-12      |
| 4   | BiLog Antenna                              | VUL9163       | 9163-302                     | Schwarzbeck | 2012-02-10      |
| 5   | Signal Generator                           | SMB100A       | 102063                       | R&S         | 2012-03-05      |
| 6   | LISN                                       | ESH2-Z5       | 829991/012                   | R&S         | 2012-04-20      |
| 7   | Universal Radio<br>Communication<br>Tester | CMU200        | 100680                       | R&S         | 2011-09-05      |
| 8   | Dual-Ridge<br>Waveguide Horn<br>Antenna    | 3115          | 6914                         | EMCO        | 2012-01-18      |
| 9   | PC   | OPTIPLEX 755  | 3908243625                   | DELL        | N/A             |
| 10  | Monitor                                    | E178FPc       | CN-OWR979-64<br>180-7AJ-D2MS | DELL        | N/A             |
| 11  | Printer                                    | DeskJet D2368 | TH72E12G7Q                   | HP          | N/A             |
| 12  | Keyboard                                   | L100          | CN0RH6596589<br>07ATOI40     | DELL        | N/A             |
| 13  | Mouse                                      | VR-301        | 6927225500198                | XINGYU      | N/A             |



## **ANNEX A: MEASUREMENT RESULTS**

#### A.1 Radiated Emission (§15.109(a))

#### A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB mode of MS and charging mode of MS) at a distance of 3 meters is tested. Tested in accordance with the procedures of ANSI C63.4 - 2003, section 8.3.

#### A.1.2 EUT Operating Mode:

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL OPTIPLEX 755, and the serial number of the PC is 3908243625. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

#### A.1.3 Measurement Limit

| Frequency of emission (MHz) | Field strength (microvolts/meter) |
|-----------------------------|-----------------------------------|
| 30-88                       | 100                               |
| 88-216                      | 150                               |
| 216-960                     | 200                               |
| Above 960                   | 500                               |

#### A.1.4 Test Condition

| Frequency of emission (MHz) | RBW/VBW       | Sweep Time(s) |  |
|-----------------------------|---------------|---------------|--|
| 30-1000                     | 100KHz/300KHz | 5             |  |
| 1000-4000                   | 1MHz/1MHz     | 15            |  |



#### A.1.5 Measurement Results

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and including the gain of receive antenna and the path loss.

The measurement results are obtained as described below:

Result =  $P_{Mea} + F_A + G_{PL}$ 

Where

F<sub>A</sub>: Receive Antenna Factor

G<sub>PL</sub>: Cable Loss

 $P_{\text{Mea}}$ : The measurement result on receiver.

## **Charging Mode(set.1)**

|                | ,              |                      |                       |                 |            |
|----------------|----------------|----------------------|-----------------------|-----------------|------------|
| Frequency(MHz) | Result(dBuV/m) | G <sub>PL</sub> (dB) | F <sub>A</sub> (dB/m) | $P_{Mea}(dBuV)$ | Polarity   |
| 3911.824       | 51.51          | -19.8                | 33.4                  | 37.91           | HORIZONTAL |
| 3703.407       | 51.22          | -19.4                | 33.4                  | 37.22           | HORIZONTAL |
| 3701.403       | 51.07          | -19.4                | 33.4                  | 37.07           | VERTICAL   |
| 3959.92        | 51.06          | -19.7                | 33.4                  | 37.36           | VERTICAL   |
| 3767.535       | 50.99          | -19.6                | 33.4                  | 37.19           | HORIZONTAL |
| 3649.299       | 50.97          | -19.7                | 33.4                  | 37.27           | VERTICAL   |

## **Charging Mode(set.2)**

| F              | D = = : - 4/- D: -\//\ | O (-ID)              | F (-ID/)              | D (-ID)/)               | Dalarita   |
|----------------|------------------------|----------------------|-----------------------|-------------------------|------------|
| Frequency(MHz) | Result(dBuV/m)         | G <sub>PL</sub> (dB) | F <sub>A</sub> (dB/m) | P <sub>Mea</sub> (dBuV) | Polarity   |
| 3581.162       | 51.5                   | -19.6                | 33.4                  | 37.7                    | HORIZONTAL |
| 3701.403       | 51.46                  | -19.4                | 33.4                  | 37.46                   | VERTICAL   |
| 3601.202       | 51.39                  | -19.6                | 33.4                  | 37.59                   | HORIZONTAL |
| 3551.102       | 51.25                  | -19.5                | 33.4                  | 37.35                   | VERTICAL   |
| 3539.078       | 51.21                  | -19.4                | 33.4                  | 37.21                   | VERTICAL   |
| 3486.974       | 51.15                  | -19.6                | 31.2                  | 39.55                   | VERTICAL   |

## **Charging Mode(set.3)**

| Frequency(MHz) | Result(dBuV/m) | G <sub>PL</sub> (dB) | F <sub>A</sub> (dB/m) | P <sub>Mea</sub> (dBuV) | Polarity   |
|----------------|----------------|----------------------|-----------------------|-------------------------|------------|
| 3549.098       | 51.53          | -19.5                | 33.4                  | 37.63                   | VERTICAL   |
| 3871.743       | 51.01          | -19.6                | 33.4                  | 37.21                   | VERTICAL   |
| 3430.862       | 50.94          | -19.6                | 31.2                  | 39.34                   | HORIZONTAL |
| 3977.956       | 50.82          | -19.4                | 33.4                  | 36.82                   | HORIZONTAL |
| 3559.118       | 50.76          | -19.5                | 33.4                  | 36.86                   | HORIZONTAL |
| 3913.828       | 50.76          | -19.8                | 33.4                  | 37.16                   | HORIZONTAL |

#### **USB Mode**

| Frequency(MHz) | Result(dBuV/m) | G <sub>PL</sub> (dB) | F <sub>A</sub> (dB/m) | P <sub>mea</sub> (dBuV) | Polarity   |
|----------------|----------------|----------------------|-----------------------|-------------------------|------------|
| 3741.483       | 51.68          | -19.7                | 33.4                  | 37.98                   | VERTICAL   |
| 3697.395       | 51.62          | -19.5                | 33.4                  | 37.72                   | HORIZONTAL |
| 3695.391       | 51.32          | -19.5                | 33.4                  | 37.42                   | HORIZONTAL |
| 3665.331       | 51.27          | -19.7                | 33.4                  | 37.57                   | VERTICAL   |
| 2246.493       | 51.11          | -19.6                | 27.5                  | 43.21                   | HORIZONTAL |
| 3663.327       | 51.08          | -19.7                | 33.4                  | 37.38                   | VERTICAL   |



#### **Charging Mode**

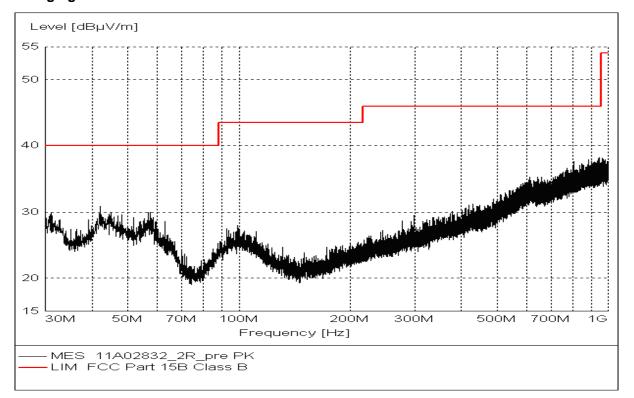


Figure A.1 Radiated Emission from 30MHz to 1GHz (set.1)

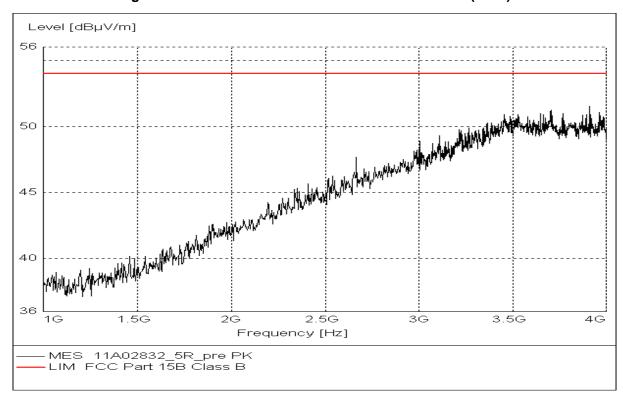


Figure A.2 Radiated Emission from 1GHz to 4GHz(set.1)



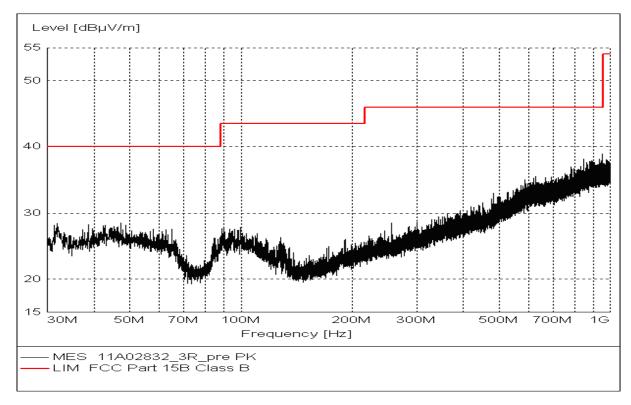


Figure A.3 Radiated Emission from 30MHz to 1GHz (set.2)

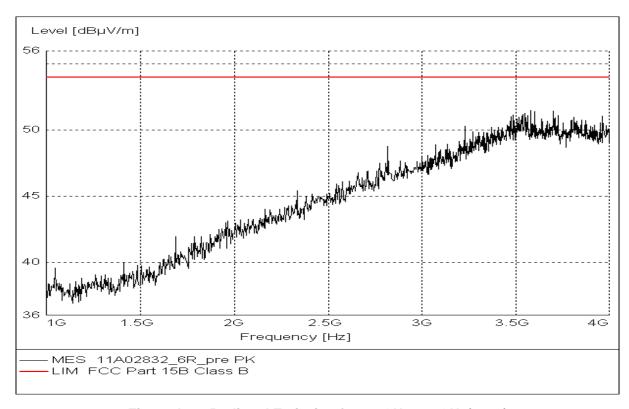


Figure A.4 Radiated Emission from 1GHz to 4GHz(set.2)



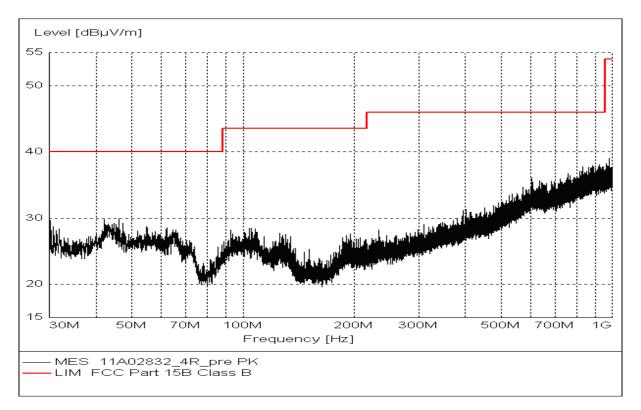


Figure A.5 Radiated Emission from 30MHz to 1GHz (set.3)

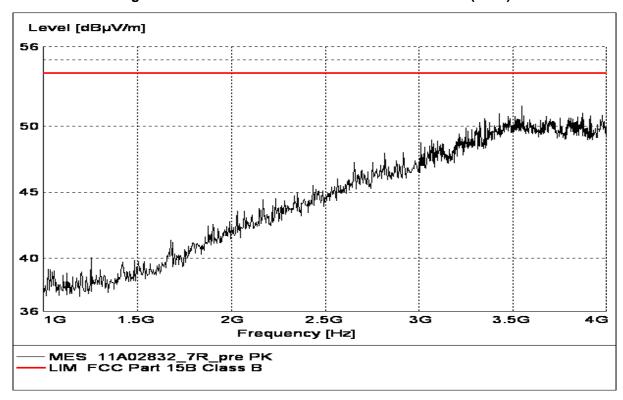


Figure A.6 Radiated Emission from 30MHz to 1GHz (set.3)



#### **USB Mode**

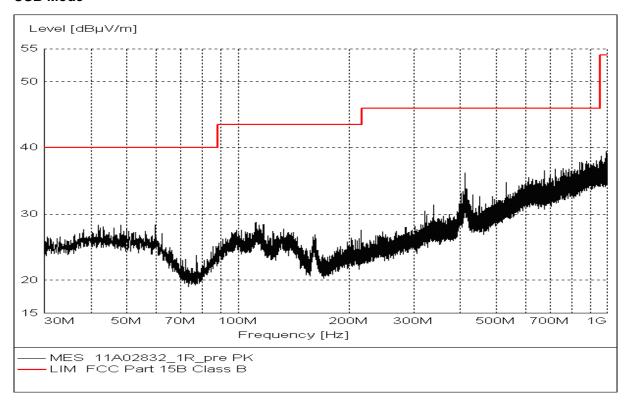


Figure A.7 Radiated Emission from 30MHz to 1GHz

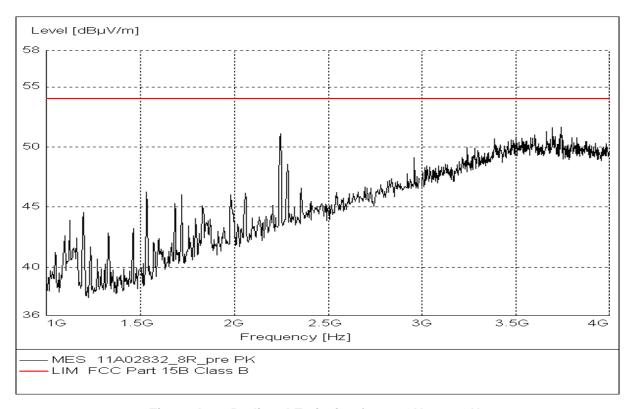


Figure A.8 Radiated Emission from 1GHz to 4GHz



#### A.2 Conducted Emission (§15.107(a))

#### A.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 - 2003, section 7.2.

#### A.2.2 EUT Operating Mode:

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL OPTIPLEX 755, and the serial number of the PC is 3908243625. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

#### A.2.3 Measurement Limit

| Frequency of emission (MHz)                    | Conducted limit (dBµV) |           |  |  |  |
|--|------------------------|-----------|--|--|--|
|  | Quasi-peak             | Average   |  |  |  |
| 0.15-0.5                                       | 66 to 56*              | 56 to 46* |  |  |  |
| 0.5-5  | 56                     | 46        |  |  |  |
| 5-30   | 60                     | 50        |  |  |  |
| *Decreases with the logarithm of the frequency |                        |           |  |  |  |

#### A.2.4 Test Condition in charging mode

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 120         | 60             |

| RBW  | Sweep Time(s) |
|------|---------------|
| 9kHz | 1             |



# A.2.4 Measurement Results Charging Mode

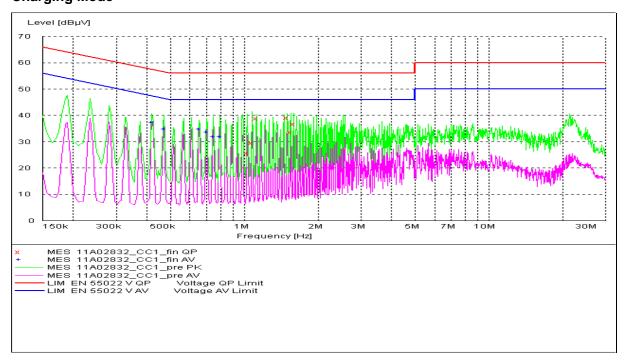


Figure A.9 Conducted Emission(set.1)

#### MEASUREMENT RESULT: "11A02832\_CC1\_fin QP"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dΒμV  | dB     | dΒμV  | dB     |      |     |
| 1.035000  | 25.50 | 10.1   | 56    | 30.5   | N    | GND |
| 1.080000  | 29.60 | 10.1   | 56    | 26.4   | N    | GND |
| 1.125000  | 38.90 | 10.1   | 56    | 17.1   | L1   | GND |
| 1.500000  | 39.00 | 10.1   | 56    | 17.0   | L1   | GND |
| 1.550000  | 33.50 | 10.1   | 56    | 22.5   | L1   | GND |
| 1.595000  | 36.60 | 10.1   | 56    | 19.4   | L1   | GND |

#### MEASUREMENT RESULT: "11A02832\_CC1\_fin AV"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dΒμV  | dB     | dΒμV  | dB     |      |     |
| 0.420000  | 37.20 | 10.1   | 47    | 10.2   | L1   | GND |
| 0.470000  | 34.80 | 10.1   | 47    | 11.8   | L1   | GND |
| 0.655000  | 34.70 | 10.1   | 46    | 11.3   | L1   | GND |
| 0.700000  | 33.50 | 10.1   | 46    | 12.5   | L1   | GND |
| 0.750000  | 31.80 | 10.1   | 46    | 14.2   | L1   | GND |
| 0.795000  | 31.80 | 10.1   | 46    | 14.2   | L1   | GND |



#### **Charging Mode**

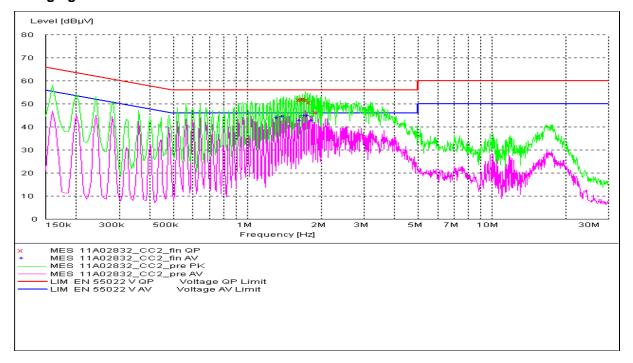


Figure A.10 Conducted Emission(set.2)

## MEASUREMENT RESULT: "11A02832\_CC2\_fin QP"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dΒμV  | dB     | dΒμV  | dB     | /    | /   |
| 1.640000  | 51.70 | 10.1   | 56    | 4.3    | L1   | GND |
| 1.675000  | 52.00 | 10.1   | 56    | 4.0    | L1   | GND |
| 1.720000  | 52.20 | 10.1   | 56    | 3.8    | L1   | GND |
| 1.760000  | 51.70 | 10.1   | 56    | 4.3    | L1   | GND |
| 1.805000  | 50.60 | 10.1   | 56    | 5.4    | L1   | GND |
| 1.925000  | 46.50 | 10.1   | 56    | 9.5    | N    | GND |

## MEASUREMENT RESULT: "11A02832\_CC2\_fin AV"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dΒμV  | dB     | dΒμV  | dB     | /    | /   |
| 1.320000  | 44.00 | 10.1   | 46    | 2.0    | L1   | GND |
| 1.400000  | 44.60 | 10.1   | 46    | 1.4    | L1   | GND |
| 1.640000  | 42.90 | 10.1   | 46    | 3.1    | L1   | GND |
| 1.720000  | 44.80 | 10.1   | 46    | 1.2    | L1   | GND |
| 1.760000  | 44.80 | 10.1   | 46    | 1.2    | L1   | GND |
| 1.840000  | 42.80 | 10.1   | 46    | 3.2    | L1   | GND |



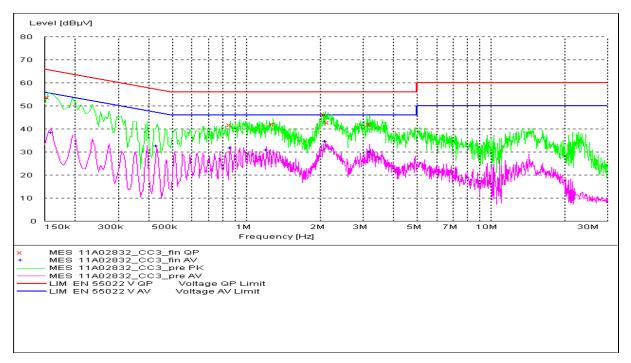


Figure A.11 Conducted Emission(set.3)

## MEASUREMENT RESULT: "11A02832\_CC3\_fin QP"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dΒμV  | dB     | dΒμV  | dB     | /    | /   |
| 0.155000  | 53.80 | 10.1   | 66    | 11.9   | L1   | GND |
| 0.860000  | 41.80 | 10.1   | 56    | 14.2   | L1   | GND |
| 1.285000  | 42.10 | 10.1   | 56    | 13.9   | L1   | GND |
| 2.102280  | 46.20 | 10.1   | 56    | 9.8    | L1   | GND |
| 2.155365  | 42.70 | 10.1   | 56    | 13.3   | L1   | GND |
| 3.196243  | 41.90 | 10.1   | 56    | 14.1   | L1   | GND |

## MEASUREMENT RESULT: "11A02832\_CC3\_fin AV"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dΒμV  | dB     | dΒμV  | dB     | /    | /   |
| 0.160000  | 38.30 | 10.1   | 56    | 17.1   | Ν    | GND |
| 0.430000  | 32.60 | 10.1   | 47    | 14.6   | L1   | GND |
| 0.860000  | 31.80 | 10.1   | 46    | 14.2   | L1   | GND |
| 1.210000  | 30.90 | 10.1   | 46    | 15.1   | L1   | GND |
| 2.102280  | 34.60 | 10.1   | 46    | 11.4   | L1   | GND |
| 3.196243  | 30.00 | 10.1   | 46    | 16.0   | L1   | GND |



#### **USB Mode**

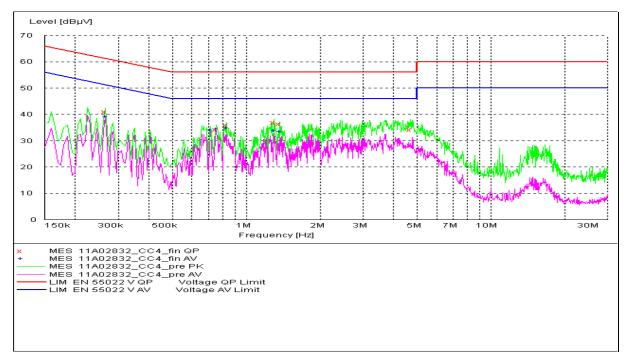


Figure A.12 Conducted Emission

#### MEASUREMENT RESULT: "11A02832\_CC4\_fin QP"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dΒμV  | dB     | dΒμV  | dB     | /    | /   |
| 0.265000  | 40.90 | 10.1   | 61    | 20.4   | L1   | GND |
| 0.755000  | 34.20 | 10.1   | 56    | 21.8   | L1   | GND |
| 0.830000  | 35.90 | 10.1   | 56    | 20.1   | L1   | GND |
| 1.300000  | 36.80 | 10.1   | 56    | 19.2   | L1   | GND |
| 1.375000  | 36.40 | 10.1   | 56    | 19.6   | L1   | GND |
| 4.669394  | 34.10 | 10.2   | 56    | 21.9   | L1   | GND |

## MEASUREMENT RESULT: "11A02832\_CC4\_fin AV"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dΒμV  | dB     | dΒμV  | dB     | /    | /   |
| 0.265000  | 39.20 | 10.1   | 51    | 12.1   | L1   | GND |
| 0.715000  | 33.90 | 10.1   | 46    | 12.1   | L1   | GND |
| 0.755000  | 34.30 | 10.1   | 46    | 11.7   | L1   | GND |
| 0.830000  | 34.70 | 10.1   | 46    | 11.3   | L1   | GND |
| 1.300000  | 33.80 | 10.1   | 46    | 12.2   | L1   | GND |
| 1.375000  | 33.30 | 10.1   | 46    | 12.7   | L1   | GND |