

# TEST REPORT No. I18Z61508-EMC03

for

Samsung Electronics Co., Ltd.

## Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN

Model Name: SM-G6200

FCC ID: ZCASMG6200

with

Hardware Version: REV0.5

Software Version: OPM1.171019.026.G6200ZCU0ARJ4

Issued Date: 2018-10-31



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## **REPORT HISTORY**

| Report Number   | Revision | Description             | Issue Date |
|-----------------|----------|-------------------------|------------|
| I18Z61508-EMC03 | Rev.0    | 1 <sup>st</sup> edition | 2018-10-16 |
| I18Z61508-EMC03 | Rev.1    | 2 <sup>nd</sup> edition | 2018-10-31 |



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## 1. Test Laboratory

## 1.1. Testing Location

CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology Development

Area, Beijing, P. R. China 100176

1.2. Testing Environment

Normal Temperature: 15-35°C Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2018-08-22 Testing End Date: 2018-09-20

1.4. Signature

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(Prepared this test report)

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Zhang Ying

(Reviewed this test report)

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Deputy Director of the laboratory (Approved this test report)

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## 2. Client Information

## 2.1. Applicant Information

Company Name: Samsung Electronics Co., Ltd.

Address: (Maetan dong)129,Samsung-ro Yeongtong-gu,Suwon-si, Gyeonggi-do

16677,Korea

City: /
Postal Code: /
Country: /
Telephone: /

## 2.2. Manufacturer Information

Company Name: Samsung Electronics Co., Ltd.

(Maetan dong)129,Samsung-ro Yeongtong-gu,Suwon-si, Gyeonggi-do

16677,Korea

City: /
Postal Code: /
Country: /
Telephone: /

Address:



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

#### 3.1. About EUT

Description Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN

Model Name SM-G6200 FCC ID ZCASMG6200

Extreme vol. Limits 3.7VDC to 4.40VDC (nominal: 3.85VDC)

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, CAICT.

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

EUT ID\* SN or IMEI HW Version SW Version

EUT4 359234090078728 REV0.5 OPM1.171019.026.G6200ZCU0ARJ4

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

| AE ID* | Description | SN | Remarks |
|--------|-------------|----|---------|
| AE1    | Battery     | /  | /       |
| AE2    | Charger     | /  | /       |
| AE3    | USB cable   | /  | /       |
|        |             |    |         |

AE1

Model EB-BG610ABE

Manufacturer Samsung SDI Co., Ltd.

Capacitance 3300mAh Nominal voltage 3.85V

AE2

Model HKC0115021-2D

Manufacturer SHENZHEN HUNTKEY ELECTRIC CO., LTD

Length of cable /

AE3

Model 711300000351

Manufacturer /
Length of cable /

Note: The USB cables are shielded.

#### 3.4. EUT set-ups

| EUT set-up No. | Combination of EUT and AE | Remarks  |
|----------------|---------------------------|----------|
| Set.1          | EUT4+ AE1 + AE2+ AE3      | Charger  |
| Set.2          | EUT4+ AE1 + AE3           | USB mode |

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

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



## 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 - Unintentional Radiators | 2016    |
| ANSI C63.4             | American National Standard for                    | 2014    |
|                        | Methods of Measurement of Radio-                  |         |
|                        | Noise Emissions from Low-Voltage                  |         |
|                        | Electrical and Electronic Equipment               |         |
|                        | in the Range of 9 kHz to 40 GHz                   |         |

Note: The test methods have no deviation with standards.



## 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber SAC-1** (23 meters×17 meters×10 meters) did not exceed following limits along the EMC testing:

| Min. = 15 °C, Max. = 35 °C              |
|---|
| Min. = 15 %, Max. = 75 %                |
| 0.014MHz - 1MHz, >60dB;                 |
| 1MHz - 1000MHz, >90dB.                  |
| > 2 MΩ                                  |
| < 4Ω                                    |
| < ± 4 dB, 3m/10m distance,              |
| from 30 to 1000 MHz                     |
| Between 0 and 6 dB, from 1GHz to 18GHz  |
| Between 0 and 6 dB, from 80 to 3000 MHz |
|   |

**Semi-anechoic chamber SAC-2** (10 meters × 6.7 meters × 6.1 meters) did not exceed following limits along the EMC testing:

| Temperature                                     | Min. = 15 °C, Max. = 35 °C                 |  |
|---|--|--|
| Relative humidity                               | Min. = 15 %, Max. = 75 %                   |  |
| Shielding offeetiveness                         | 0.014MHz - 1MHz, >60dB;                    |  |
| Shielding effectiveness                         | 1MHz - 1000MHz, >90dB.                     |  |
| Electrical insulation                           | > 2 MΩ                                     |  |
| Ground system resistance                        | < 4 Ω                                      |  |
| Normalised site attenuation (NSA)               | < ± 4 dB, 3m distance, from 30 to 1000 MHz |  |
| Site voltage standing-wave ratio ( $S_{VSWR}$ ) | Between 0 and 6 dB, from 1GHz to 18GHz     |  |
| Uniformity of field strength                    | Between 0 and 6 dB, from 80 to 3000 MHz    |  |

**Shielded room** did not exceed following limits along the EMC testing:

|                          | U | S S                        |
|--------------------------|---|----------------------------|
| Temperature              |   | Min. = 15 °C, Max. = 35 °C |
| Relative humidity        |   | Min. = 20 %, Max. = 75 %   |
| Shielding effectiveness  |   | 0.014MHz-1MHz, >60dB;      |
|                          |   | 1MHz-1000MHz, >90dB.       |
| Electrical insulation    |   | > 2 MΩ                     |
| Ground system resistance |   | <4 Ω                       |



## 6. SUMMARY OF TEST RESULTS

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

| Items | Test Name             | Clause in FCC rules | Section in this report | Verdict | Test<br>Location |
|-------|-----------------------|---------------------|------------------------|---------|------------------|
| 1     | Radiated<br>Emission  | 15.109(a)           | A.1                    | Р       | CTTL(BDA)        |
| 2     | Conducted<br>Emission | 15.107(a)           | A.2                    | Р       | CTTL(BDA)        |



## 7. Test Equipments Utilized

|     |                 |          | SERIES     |              | CAL DUE    | CALIBRATI |
|-----|-----------------|----------|------------|--------------|------------|-----------|
| NO. | Description     | TYPE     | NUMBER     | MANUFACTURE  | DATE       | ON        |
|     |                 |          | NOWBER     |              |            | INTERVAL  |
| 1   | Test Receiver   | ESU26    | 100376     | R&S          | 2018-12-17 | 1 year    |
| 2   | Test Receiver   | ESCI     | 100766     | R&S          | 2019-04-16 | 1 year    |
|     | Universal Radio |          |            |              |            |           |
| 3   | Communication   | CMW500   | 159408     | R&S          | 2019-04-12 | 1 year    |
|     | Tester          |          |            |              |            |           |
| 4   | LISN            | ESH3-Z5  | 825562/028 | R&S          | 2019-01-31 | 1 year    |
| 5   | EMI Antenna     | VULB9163 | 9163-514   | Schwarzbeck  | 2020-02-03 | 3 years   |
| 6   | EMI Antenna     | 3117     | 00139065   | ETS-Lindgren | 2020-11-15 | 3 years   |
| 7   | Printer         | P1606dn  | VNC3L52122 | HP           | N/A        | N/A       |
| 8   | Keyboard        | KU-1601  | 2048361    | Lenovo       | N/A        | N/A       |
| 9   | Mouse           | EMS-537A | 8021S3MC   | Lenovo       | N/A        | N/A       |

| Test Item                    | Test Software and Version | Software Vendor |
|------------------------------|---------------------------|-----------------|
| Radiated Continuous Emission | EMC32 V9.01               | R&S             |
| Conducted Emission           | EMC32 V8.52.0             | R&S             |



## ANNEX A: MEASUREMENT RESULTS

#### A.1 Radiated Emission

#### Reference

FCC: CFR Part 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 distances of 3 meters(for 30MHz-1GHz) and 3 meters (for above 1GHz) is tested. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 8.3.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3/10 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.

#### A.1.2 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 Lenovo M4000e-17, and the serial number of the PC is M706RMW2. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

#### A.1.3 Measurement Limit

| Frequency range | Field strength limit (μV/m) |         |      |  |  |  |  |
|-----------------|-----------------------------|---------|------|--|--|--|--|
| (MHz)           | Quasi-peak                  | Average | Peak |  |  |  |  |
| 30-88           | 100                         |         |      |  |  |  |  |
| 88-216          | 150                         |         |      |  |  |  |  |
| 216-960         | 200                         |         |      |  |  |  |  |
| 960-1000        | 500                         |         |      |  |  |  |  |
| >1000           |                             | 500     | 5000 |  |  |  |  |

Note: the above limit is for 3 meters test distance. 10 meters' limit is got by converting.

#### A.1.4 Test Condition

| Frequency range (MHz) | RBW/VBW               | Sweep Time (s) | Detector        |
|-----------------------|-----------------------|----------------|-----------------|
| 30-1000               | 120kHz (IF Bandwidth) | 5              | Peak/Quasi-peak |
| Above 1000            | 1MHz/1MHz             | 15             | Peak, Average   |



#### A.1.5 Measurement Results

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

Result =  $P_{Mea} + A_{Rpl} = P_{Mea} + G_A + G_{PL}$ 

Where

G<sub>A</sub>: Antenna factor of receive antenna

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

P<sub>Mea</sub>: Measurement result on receiver.

Measurement uncertainty (worst case): 30MHz-1GHz: 5.16dB, 1GHz-18GHz: 5.44dB, *k*=2.

#### Measurement results for Set.1:

#### **Charging Mode/Average detector**

| Fraguency | Measurement | Cable | Antenna | Receiver        | eceiver<br>Limit |      | Antenna |
|-----------|-------------|-------|---------|-----------------|------------------|------|---------|
| Frequency | Result      | loss  | Factor  | Reading         | (dBµV/m)         |      |         |
| (MHz)     | (dBµV/m)    | (dB)  | (dB/m)  | (dBμV) (αΒμν/π) |                  | (dB) | (H/V)   |
| 17623.500 | 39.1        | -25.9 | 41.1    | 23.86           | 54.0             | 14.8 | Н       |
| 17626.500 | 39.1        | -25.9 | 41.1    | 23.86           | 54.0             | 14.8 | V       |
| 17580.000 | 39.1        | -25.7 | 41.1    | 23.63           | 54.0             | 14.8 | V       |
| 17565.750 | 39.1        | -25.6 | 41.1    | 23.53           | 54.0             | 14.8 | V       |
| 17583.000 | 39.0        | -25.7 | 41.1    | 23.60           | 54.0             | 14.9 | Н       |
| 17585.250 | 39.0        | -25.7 | 41.1    | 23.61           | 54.0             | 14.9 | Н       |

#### **Charging Mode/Peak detector**

| Frequency<br>(MHz) | Measurement<br>Result<br>(dBμV/m) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Receiver<br>Reading<br>(dBμV) | Limit<br>(dBµV/m) | Margin<br>(dB) | Antenna<br>Pol.<br>(H/V) |
|--------------------|-----------------------------------|-----------------------|-----------------------------|-------------------------------|-------------------|----------------|--------------------------|
| 16521.000          | 51.5                              | -26.0                 | 41.1                        | 36.36                         | 74.0              | 22.2           | ٧                        |
| 17865.000          | 51.2                              | -23.7                 | 40.9                        | 34.03                         | 74.0              | 22.2           | Н                        |
| 16469.250          | 51.1                              | -26.0                 | 41.0                        | 36.03                         | 74.0              | 22.3           | V                        |
| 17610.750          | 51.0                              | -25.8                 | 41.1                        | 35.67                         | 74.0              | 22.6           | V                        |
| 16509.750          | 51.0                              | -26.0                 | 41.1                        | 35.83                         | 74.0              | 22.7           | Н                        |
| 16986.750          | 50.9                              | -25.6                 | 41.4                        | 35.11                         | 74.0              | 22.7           | V                        |



## **Measurement results for Set.2**:

### **USB Mode/Average detector**

| Frequency<br>(MHz) | Measurement<br>Result<br>(dBµV/m) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Receiver<br>Reading<br>(dBµV) | Limit<br>(dBμV/m) | Margin<br>(dB) | Antenna<br>Pol.<br>(H/V) |
|--------------------|-----------------------------------|-----------------------|-----------------------------|-------------------------------|-------------------|----------------|--------------------------|
| 17995.500          | 39.2                              | -25.0                 | 40.8                        | 23.46                         | 54.0              | 14.8           | V                        |
| 17972.250          | 39.2                              | -25.2                 | 40.8                        | 23.56                         | 54.0              | 14.8           | Н                        |
| 17992.500          | 39.2                              | -25.2                 | 40.8                        | 23.54                         | 54.0              | 14.8           | V                        |
| 17962.500          | 39.1                              | -25.0                 | 40.8                        | 23.28                         | 54.0              | 14.9           | Н                        |
| 17989.500          | 39.1                              | -25.3                 | 40.8                        | 23.53                         | 54.0              | 14.9           | Н                        |
| 17946.000          | 39.0                              | -24.8                 | 40.8                        | 23.03                         | 54.0              | 15.0           | Н                        |

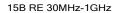
#### **USB Mode/Peak detector**

| Frequency<br>(MHz) | Measurement<br>Result<br>(dBµV/m) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Receiver<br>Reading<br>(dBµV) | Limit<br>(dBµV/m) | Margin<br>(dB) | Antenna<br>Pol.<br>(H/V) |
|--------------------|-----------------------------------|-----------------------|-----------------------------|-------------------------------|-------------------|----------------|--------------------------|
| 16962.000          | 51.9                              | -25.6                 | 41.4                        | 36.15                         | 74.0              | 22.1           | Н                        |
| 17382.750          | 51.6                              | -25.5                 | 41.2                        | 35.91                         | 74.0              | 22.4           | V                        |
| 16444.500          | 51.6                              | -26.0                 | 41.0                        | 36.59                         | 74.0              | 22.4           | Н                        |
| 17112.750          | 51.2                              | -25.5                 | 41.3                        | 35.37                         | 74.0              | 22.8           | Н                        |
| 17454.000          | 51.1                              | -25.2                 | 41.2                        | 35.09                         | 74.0              | 22.9           | V                        |
| 16463.250          | 51.0                              | -26.0                 | 41.0                        | 35.99                         | 74.0              | 23.0           | Н                        |

Note: The measurement results of Set.1,Set.2 and Set.3 showed here are worst cases of the combinations of different USB cables.



### **Charging Mode, Set.1**



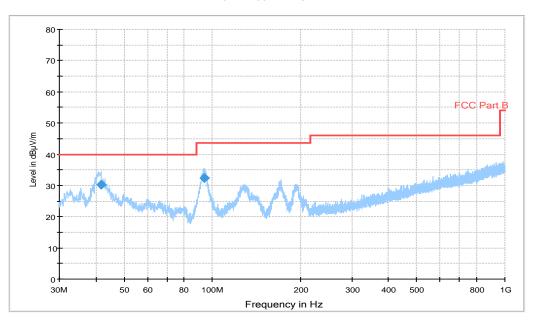


Figure A.1 Radiated Emission from 30MHz to 1GHz

### **Final Result 1**

| Frequency | QuasiPeak | Height | Polarization | Azimuth | Corr. | Margin | Limit    |
|-----------|-----------|--------|--------------|---------|-------|--------|----------|
| (MHz)     | (dBµV/m)  | (cm)   |              | (deg)   | (dB)  | (dB)   | (dBµV/m) |
| 41.543000 | 30.3      | 100.0  | V            | 0.0     | 0.4   | 9.7    | 40.0     |
| 94.020000 | 32.4      | 100.0  | V            | -20.0   | -2.4  | 11.1   | 43.5     |

15B RE - 1GHz-3GHz

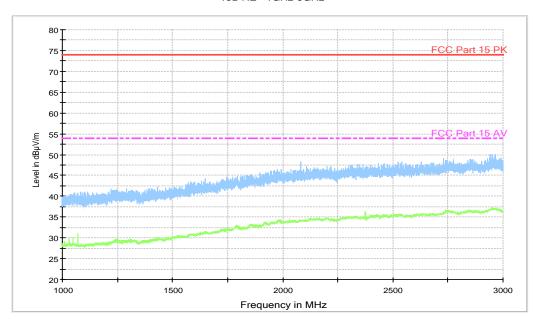


Figure A.2 Radiated Emission from 1GHz to 3GHz



15b RE - 3GHz-18GHz

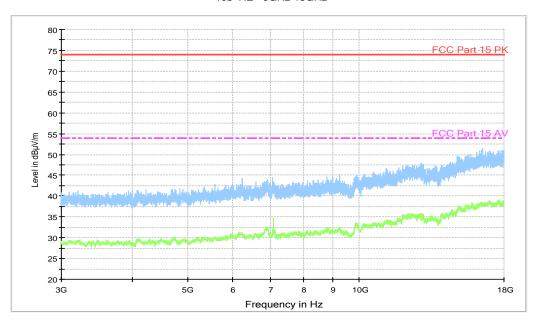


Figure A.3 Radiated Emission from 3GHz to 18GHz

### **USB Mode, Set.2**

15B RE 30MHz-1GHz

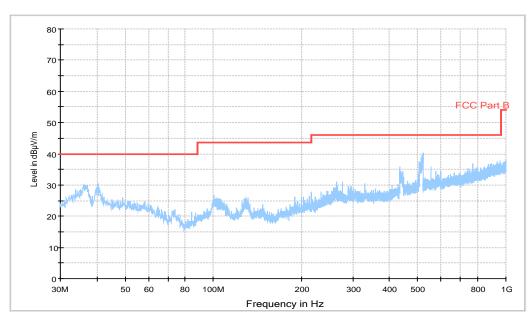


Figure A.4 Radiated Emission from 30MHz to 1GHz



15B RE - 1GHz-3GHz

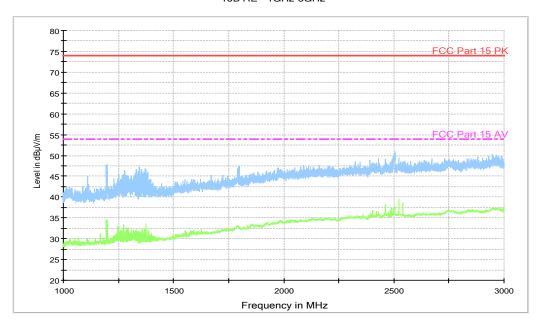


Figure A.5 Radiated Emission from 1GHz to 3GHz

15b RE - 3GHz-18GHz

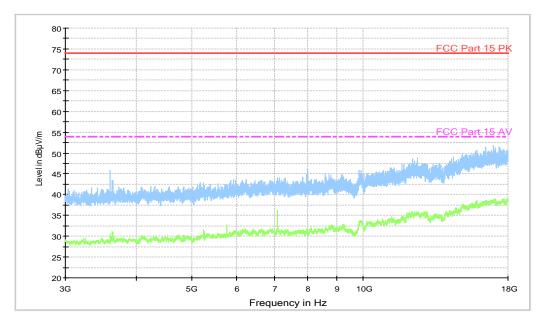


Figure A.6 Radiated Emission from 3GHz to 18GHz



## A.2 Conducted Emission

#### Reference

FCC: CFR Part 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 – 2014, section 7.3.

#### 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 380, and the serial number of the PC is 2X1YV2X. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

#### 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/IF bandwidth | Sweep Time(s) |
|------------------|---------------|
| 9kHz             | 1             |



#### A.2.5 Measurement Results

Measurement uncertainty: *U*= 3.08 dB, *k*=2.

### **Charging Mode, Set.1**

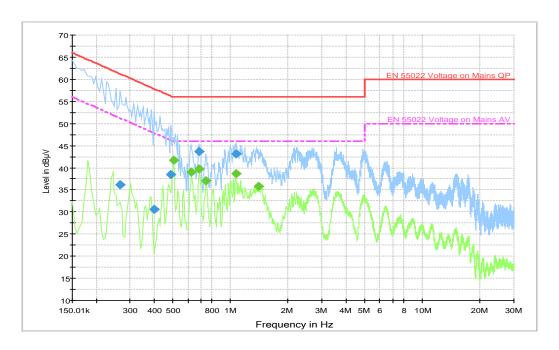


Figure A.7 Conducted Emission

### **Final Result 1**

| Frequency | QuasiPeak | Meas. Time | Bandwidth | PE  | Line | Corr. | Margin | Limit  |
|-----------|-----------|------------|-----------|-----|------|-------|--------|--------|
| (MHz)     | (dBµV)    | (ms)       | (kHz)     |     |      | (dB)  | (dB)   | (dBµV) |
| 0.150000  | 41.5      | 2000.0     | 9.000     | GND | N    | 10.4  | 24.5   | 66.0   |
| 0.267000  | 36.1      | 2000.0     | 9.000     | GND | N    | 10.4  | 25.1   | 61.2   |
| 0.402000  | 30.5      | 2000.0     | 9.000     | GND | N    | 10.4  | 27.3   | 57.8   |
| 0.487500  | 38.4      | 2000.0     | 9.000     | GND | N    | 10.4  | 17.8   | 56.2   |
| 0.685500  | 43.8      | 2000.0     | 9.000     | GND | N    | 10.5  | 12.2   | 56.0   |
| 1.072500  | 43.1      | 2000.0     | 9.000     | GND | N    | 10.4  | 12.9   | 56.0   |

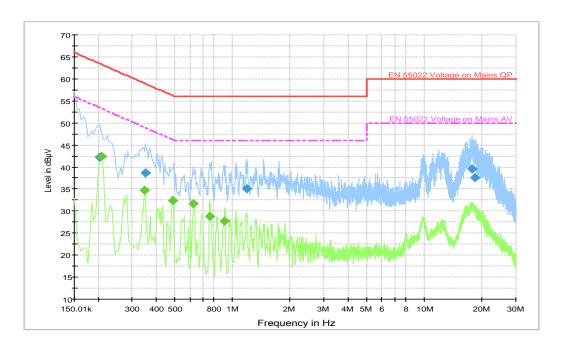
## **Final Result 2**

| Frequency | Average | Meas. Time | Bandwidth | PE  | Line | Corr. | Margin | Limit  |
|-----------|---------|------------|-----------|-----|------|-------|--------|--------|
| (MHz)     | (dBµV)  | (ms)       | (kHz)     |     |      | (dB)  | (dB)   | (dBµV) |
| 0.505500  | 41.7    | 2000.0     | 9.000     | GND | N    | 10.4  | 4.3    | 46.0   |
| 0.627000  | 39.0    | 2000.0     | 9.000     | GND | N    | 10.4  | 7.0    | 46.0   |
| 0.690000  | 39.8    | 2000.0     | 9.000     | GND | N    | 10.5  | 6.2    | 46.0   |
| 0.748500  | 37.1    | 2000.0     | 9.000     | GND | N    | 10.5  | 8.9    | 46.0   |
| 1.068000  | 38.6    | 2000.0     | 9.000     | GND | N    | 10.4  | 7.4    | 46.0   |
| 1.396500  | 35.8    | 2000.0     | 9.000     | GND | N    | 10.5  | 10.2   | 46.0   |

Note: The measurement results showed here are worst cases of the combinations of different USB cables.



### .USB Mode, Set.2



**Figure A.8 Conducted Emission** 

## **Final Result 1**

| Frequency | QuasiPeak | Meas. Time | Bandwidth | PE  | Line | Corr. | Margin | Limit  |
|-----------|-----------|------------|-----------|-----|------|-------|--------|--------|
| (MHz)     | (dBµV)    | (ms)       | (kHz)     |     |      | (dB)  | (dB)   | (dBµV) |
| 0.150000  | 54.3      | 2000.0     | 9.000     | GND | N    | 10.4  | 11.7   | 66.0   |
| 0.204000  | 42.3      | 2000.0     | 9.000     | GND | L1   | 10.4  | 21.2   | 63.4   |
| 0.352500  | 38.6      | 2000.0     | 9.000     | GND | N    | 10.4  | 20.3   | 58.9   |
| 1.194000  | 35.1      | 2000.0     | 9.000     | GND | L1   | 10.5  | 20.9   | 56.0   |
| 17.758500 | 39.5      | 2000.0     | 9.000     | GND | N    | 11.2  | 20.5   | 60.0   |
| 18.334500 | 37.5      | 2000.0     | 9.000     | GND | N    | 11.2  | 22.5   | 60.0   |

## Final Result 2

| i iilai Noodit 2 |         |            |           |     |      |       |        |        |
|------------------|---------|------------|-----------|-----|------|-------|--------|--------|
| Frequency        | Average | Meas. Time | Bandwidth | PE  | Line | Corr. | Margin | Limit  |
| (MHz)            | (dBµV)  | (ms)       | (kHz)     |     |      | (dB)  | (dB)   | (dBµV) |
|                  |         |            |           |     |      |       |        |        |
| 0.208500         | 42.4    | 2000.0     | 9.000     | GND | L1   | 10.3  | 10.8   | 53.3   |
| 0.348000         | 34.7    | 2000.0     | 9.000     | GND | L1   | 10.4  | 14.3   | 49.0   |
| 0.487500         | 32.4    | 2000.0     | 9.000     | GND | L1   | 10.4  | 13.8   | 46.2   |
| 0.627000         | 31.7    | 2000.0     | 9.000     | GND | L1   | 10.4  | 14.3   | 46.0   |
| 0.762000         | 28.8    | 2000.0     | 9.000     | GND | L1   | 10.5  | 17.2   | 46.0   |
| 0.910500         | 27.8    | 2000.0     | 9.000     | GND | L1   | 10.4  | 18.2   | 46.0   |

Note: The measurement results showed here are worst cases of the combinations of different USB cables.



## **ANNEX B: Persons involved in this testing**

| Test Item          | Tester     |  |  |  |
|--------------------|------------|--|--|--|
| Radiated Emission  | Shi Suolan |  |  |  |
| Conducted Emission | Li Jinpeng |  |  |  |

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