



TEST REPORT

No. 2013TAR526

for

TCT Mobile Limited

GSM dual band mobile phone

Model Name: Tango Plus US

Marketing Name: ALCATEL 2001A

FCC ID: RAD379

with

Hardware Version: Proto

Software Version: vA15

Issued Date: Jul. 19th, 2013

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:

DAkks accreditation (DIN EN ISO/IEC 17025): No. D-PL-12123-01-01

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

Location D

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: No.18A, Kangding Street, Beijing Economic-Technological
Development Area, Beijing, China
Postal Code: 100176

1.2. Testing Environment

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

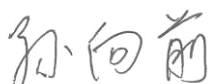
1.3. Project data

Testing Start Date: Jul. 04th, 2012
Testing End Date: Jul. 05th, 2013

1.4. Signature



Qu Pengfei
(Prepared this test report)



Sun Xiangqian
(Reviewed this test report)



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, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
Contact Person: Gong Zhizhou
Contact Email: zhizhou.gong@jrdcom.com
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

2.2. Manufacturer Information

Company Name: TCT Mobile Limited
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

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

3.1. About EUT

| | |
|---------------------|------------------------------------|
| Description | GSM dual band mobile phone |
| Model Name | Tango Plus US |
| Marketing Name | ALCATEL 2001A |
| FCC ID | RAD379 |
| Extreme vol. Limits | 3.5VDC to 4.2VDC (nominal: 3.8VDC) |

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT 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 | 013765000000060 | Proto | vA15 |

*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 | Battery | / |
| AE2 | Battery | / |
| AE3 | Travel charger | / |
| AE4 | Travel charger | / |
| AE5 | USB cable | / |
| AE6 | USB cable | / |
| AE7 | USB cable | / |
| AE8 | USB cable | / |

AE1

| | |
|-----------------|--------------|
| Model | CAB31L0000C1 |
| Manufacturer | BYD |
| Capacitance | 1000 mAh |
| Nominal voltage | 3.7 V |

AE2

| | |
|-----------------|--------------|
| Model | CAB31L0000C2 |
| Manufacturer | BAK |
| Capacitance | 1000 mAh |
| Nominal voltage | 3.7 V |

AE3

| | |
|-----------------|--------------|
| Model | CBA3007AG0C1 |
| Manufacturer | BYD |
| Length of cable | / |

AE4
 Model CBA3007AG0C2
 Manufacturer Tenpao
 Length of cable /

AE5
 Model CDA3122002C1
 Manufacturer Juwei
 Length of cable 100cm

AE6
 Model CDA3122005C1
 Manufacturer Juwei
 Length of cable 100cm

AE7
 Model CDA3122002C2
 Manufacturer Shenghua
 Length of cable 100cm

AE8
 Model CDA3122005C2
 Manufacturer Shenghua
 Length of cable 100cm

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

3.4. EUT set-ups

| EUT set-up No. | Combination of EUT and AE | Remarks |
|----------------|---------------------------|-----------------|
| Set.1 | EUT1+ AE1/AE2 + AE5 | USB mode |
| Set.2 | EUT1+ AE1/AE2 + AE3 + AE5 | Charging mode1 |
| Set.3 | EUT1+ AE1/AE2 + AE4 + AE5 | Charging mode 2 |

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 | 10-1-12 Edition |
| ANSI C63.4 | Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 2003 |

5. LABORATORY ENVIRONMENT

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

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

Fully-anechoic chamber FAC-3 (9 meters×6.5 meters×4 meters) did not exceed following limits along the EMC testing:

| | |
|---|---|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 15 %, Max. = 75 % |
| Shielding effectiveness | 0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB. |
| Electrical insulation | > 2 MΩ |
| Ground system resistance | < 4 Ω |
| 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 4000 MHz |

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

| | |
|--------------------------|---|
| 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: | | |
|------------------------------------|---------|---|
| Verdict Column | P | Pass |
| | F | Fail |
| | NA | Not applicable |
| | NM | Not measured |
| Location Column | A/B/C/D | The test is performed in test location A, B, C or D which are described in section 1.1 of this report |

| Clause | List | Clause in FCC rules | Verdict | Test Location |
|--------|--------------------|---------------------|---------|---------------|
| 1 | Radiated Emission | 15.109(a) | P | D |
| 2 | Conducted Emission | 15.107(a) | P | D |

7. Test Equipments Utilized

| NO. | Description | TYPE | SERIES NUMBER | MANUFACTURE | CAL DUE DATE |
|-----|--------------------------------------|---------------|----------------------------------|--------------|--------------|
| 1 | Test Receiver | ESU26 | 100376 | R&S | 2013-11-07 |
| 2 | EMI Antenna | VULB 9163 | 9163-514 | Schwarzbeck | 2014-11-10 |
| 3 | EMI Antenna | 3117 | 00139065 | ETS-Lindgren | 2014-07-31 |
| 4 | LISN | ESH2-Z5 | 829991/012 | R&S | 2014-04-14 |
| 5 | Test Receiver | ESCI | 100344 | R&S | 2014-03-28 |
| 6 | Universal Radio Communication Tester | CMU200 | 102228 | R&S | 2014-06-23 |
| 7 | PC | OPTIPLEX 755 | 3908243625 | DELL | N/A |
| 8 | Monitor | E178FPc | CN-OWR979-6 4180-7AJ-D2M S | DELL | N/A |
| 9 | Printer | LaserJet 1160 | CNM2D33740 | HP | N/A |
| 10 | Keyboard | L100 | CN0RH659658 907ATOI40 | DELL | N/A |
| 11 | Mouse | M-UAE119 | LZ935220ZRC | Lenovo | N/A |
| 12 | Universal Radio Communication Tester | E5515C | MY48361083 | Agilent | 2014-03-16 |

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.

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.

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 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 | 120kHz IF Bandwidth | 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". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Set.1 USB mode _Peak detector

| Frequency(MHz) | Result(dBuV/m) | G_{PL} (dB) | G_A (dB/m) | P_{mea} (dBuV) | Polarity |
|----------------|----------------|----------------------|--------------|-------------------------|------------|
| 2934.400 | 54.9 | -28.1 | 32.5 | 50.511 | HORIZONTAL |
| 2998.200 | 54.8 | -29.0 | 33.2 | 50.579 | VERTICAL |
| 2981.400 | 54.7 | -29.0 | 33.2 | 50.479 | VERTICAL |
| 2997.400 | 54.7 | -29.0 | 33.2 | 50.479 | VERTICAL |
| 2993.400 | 54.6 | -29.0 | 33.2 | 50.379 | VERTICAL |
| 2999.600 | 54.6 | -29.0 | 33.2 | 50.379 | HORIZONTAL |

Set.1 USB mode _Average detector

| Frequency(MHz) | Result(dBuV/m) | G_{PL} (dB) | G_A (dB/m) | P_{mea} (dBuV) | Polarity |
|----------------|----------------|----------------------|--------------|-------------------------|------------|
| 2934.400 | 41.1 | -28.1 | 32.5 | 36.711 | HORIZONTAL |
| 2998.200 | 42.5 | -29.0 | 33.2 | 38.279 | VERTICAL |
| 2981.400 | 42.1 | -29.0 | 33.2 | 37.879 | VERTICAL |
| 2997.400 | 42.3 | -29.0 | 33.2 | 38.079 | VERTICAL |
| 2993.400 | 42.4 | -29.0 | 33.2 | 38.179 | VERTICAL |
| 2999.600 | 43.0 | -29.0 | 33.2 | 38.779 | HORIZONTAL |

Set.2 Charging mode _Peak detector

| Frequency(MHz) | Result(dBuV/m) | G_{PL} (dB) | G_A (dB/m) | P_{Mea} (dBuV) | Polarity |
|----------------|----------------|----------------------|--------------|-------------------------|------------|
| 2997.800 | 54.8 | -29.0 | 33.2 | 50.579 | HORIZONTAL |
| 2986.600 | 54.1 | -29.0 | 33.2 | 49.879 | HORIZONTAL |
| 2994.600 | 54.0 | -29.0 | 33.2 | 49.779 | HORIZONTAL |
| 3000.000 | 54.0 | -28.4 | 32.8 | 49.572 | VERTICAL |
| 2995.200 | 54.0 | -29.0 | 33.2 | 49.779 | VERTICAL |
| 2998.400 | 54.0 | -29.0 | 33.2 | 49.779 | HORIZONTAL |

Set.2 Charging mode _ Average detector

| Frequency(MHz) | Result(dBuV/m) | G_{PL} (dB) | G_A (dB/m) | P_{Mea} (dBuV) | Polarity |
|----------------|----------------|----------------------|--------------|-------------------------|------------|
| 2997.800 | 42.4 | -29.0 | 33.2 | 38.179 | HORIZONTAL |
| 2986.600 | 41.8 | -29.0 | 33.2 | 37.579 | HORIZONTAL |
| 2994.600 | 42.4 | -29.0 | 33.2 | 38.179 | HORIZONTAL |
| 3000.000 | 43.0 | -28.4 | 32.8 | 38.572 | VERTICAL |
| 2995.200 | 42.3 | -29.0 | 33.2 | 38.079 | VERTICAL |
| 2998.400 | 42.6 | -29.0 | 33.2 | 38.379 | HORIZONTAL |

Set.3 Charging mode _Peak detector

| Frequency(MHz) | Result(dBuV/m) | G _{PL} (dB) | G _A (dB/m) | P _{Mea} (dBuV) | Polarity |
|----------------|----------------|----------------------|-----------------------|-------------------------|------------|
| 2991.400 | 54.5 | -29.0 | 33.2 | 50.279 | HORIZONTAL |
| 2974.800 | 54.4 | -28.6 | 33.1 | 49.915 | HORIZONTAL |
| 2991.000 | 54.3 | -29.0 | 33.2 | 50.079 | VERTICAL |
| 2971.200 | 54.3 | -28.6 | 33.1 | 49.815 | VERTICAL |
| 2973.800 | 54.3 | -28.6 | 33.1 | 49.815 | HORIZONTAL |
| 2957.400 | 54.2 | -28.6 | 32.5 | 50.315 | VERTICAL |

Set.3 Charging mode _ Average detector

| Frequency(MHz) | Result(dBuV/m) | G _{PL} (dB) | G _A (dB/m) | P _{Mea} (dBuV) | Polarity |
|----------------|----------------|----------------------|-----------------------|-------------------------|------------|
| 2991.400 | 42.1 | -29.0 | 33.2 | 37.879 | HORIZONTAL |
| 2974.800 | 41.9 | -28.6 | 33.1 | 37.415 | HORIZONTAL |
| 2991.000 | 42.0 | -29.0 | 33.2 | 37.779 | VERTICAL |
| 2971.200 | 41.9 | -28.6 | 33.1 | 37.415 | VERTICAL |
| 2973.800 | 41.8 | -28.6 | 33.1 | 37.315 | HORIZONTAL |
| 2957.400 | 41.6 | -28.6 | 32.5 | 37.715 | VERTICAL |

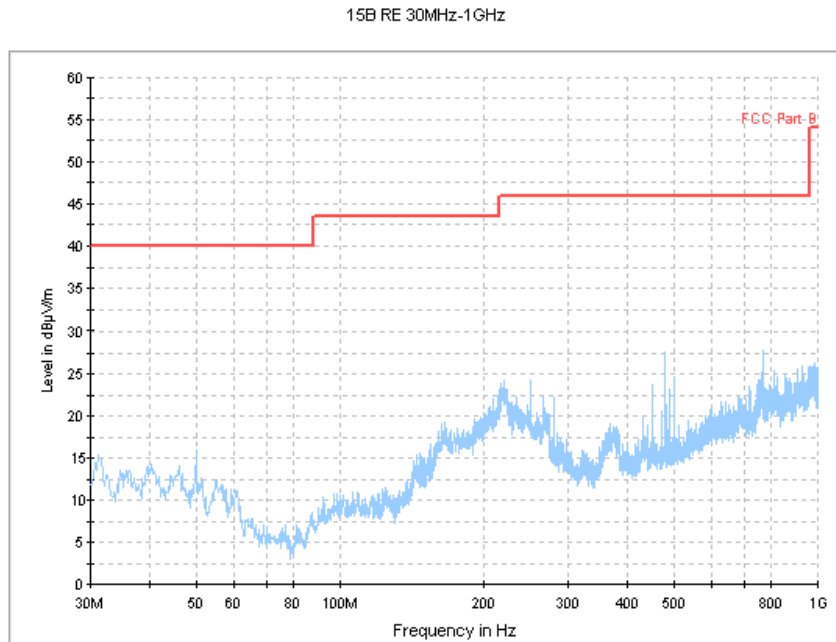


Figure A.1 Radiated Emission from 30MHz to 1GHz (Set.1, USB mode)

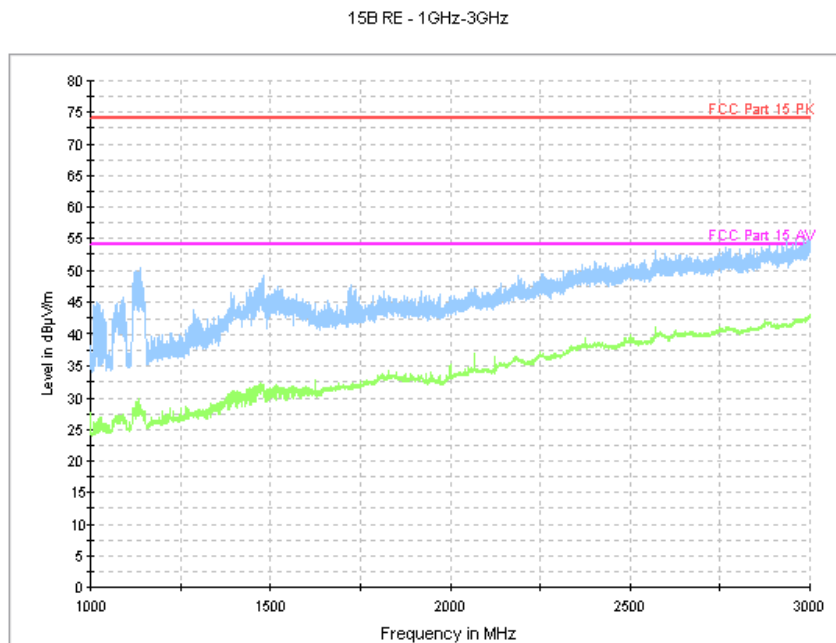


Figure A.2 Radiated Emission from 1GHz to 3GHz (Set.1, USB mode)

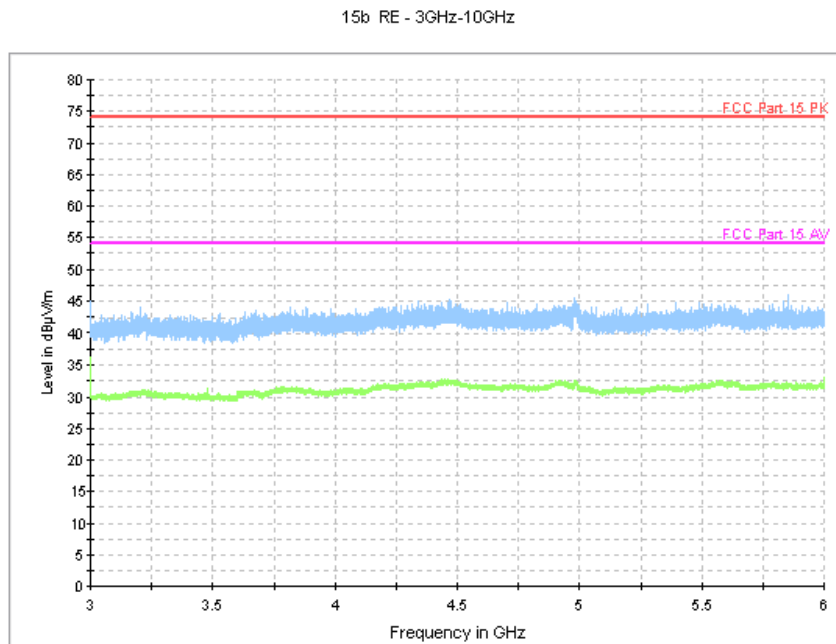


Figure A.3 Radiated Emission from 3GHz to 4GHz (Set.1, USB mode)

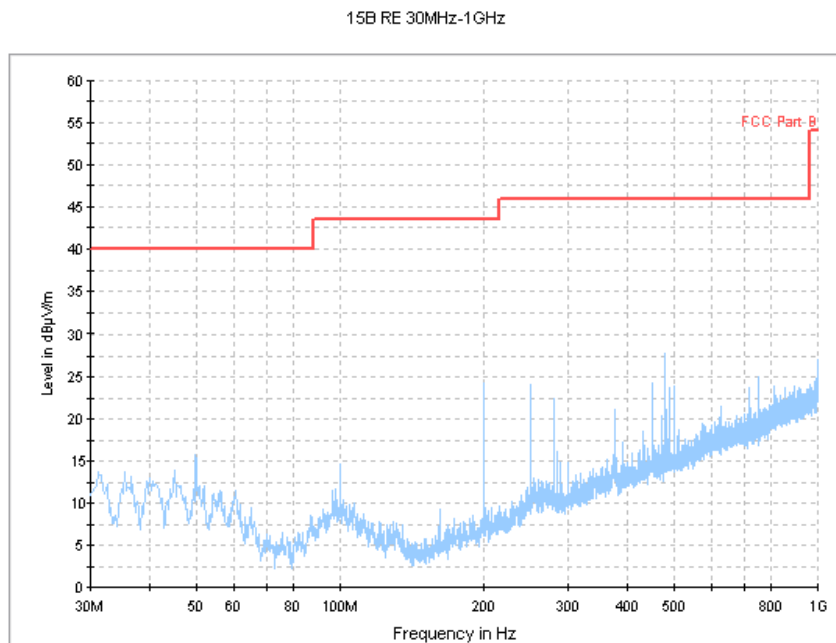


Figure A.4 Radiated Emission from 30MHz to 1GHz (Set.2, Charging mode)

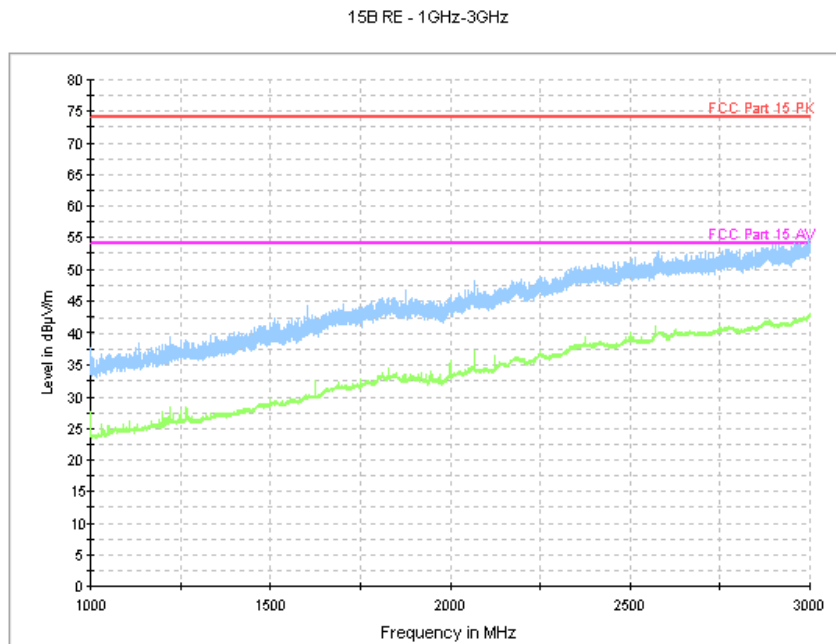


Figure A.5 Radiated Emission from 1GHz to 3GHz (Set.2, Charging mode)

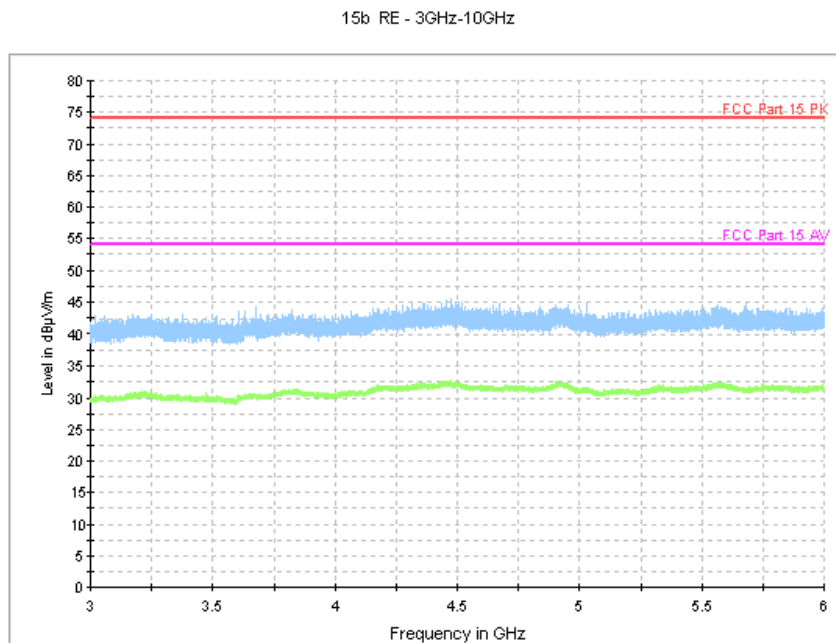


Figure A.6 Radiated Emission from 3GHz to 4GHz (Set.2, Charging mode)

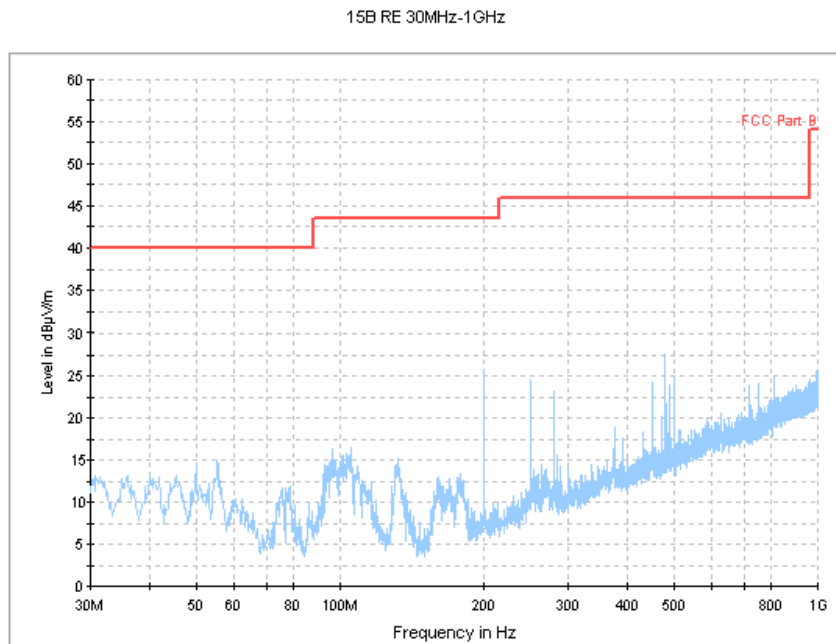


Figure A.7 Radiated Emission from 30MHz to 1GHz (Set.3, Charging mode)

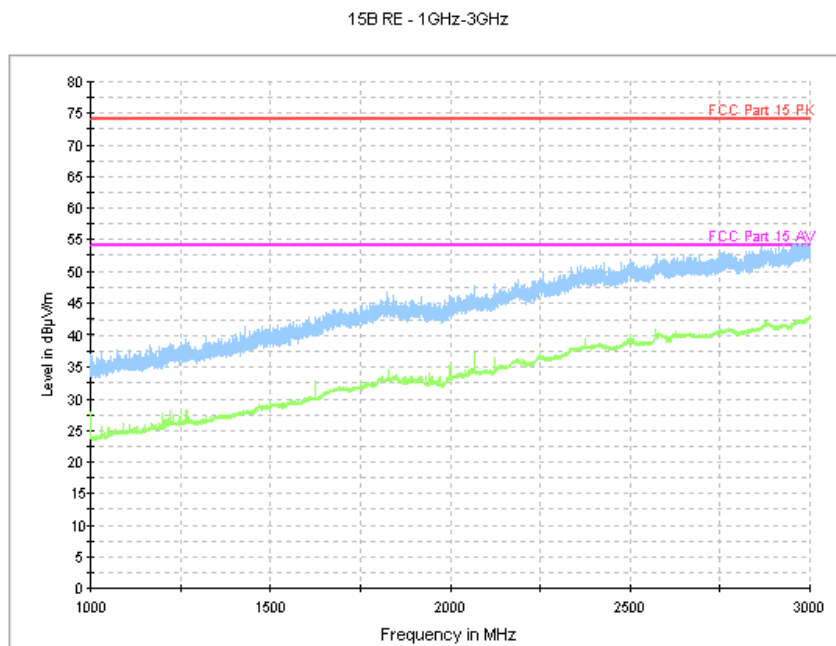


Figure A.8 Radiated Emission from 1GHz to 3GHz (Set.3, Charging mode)

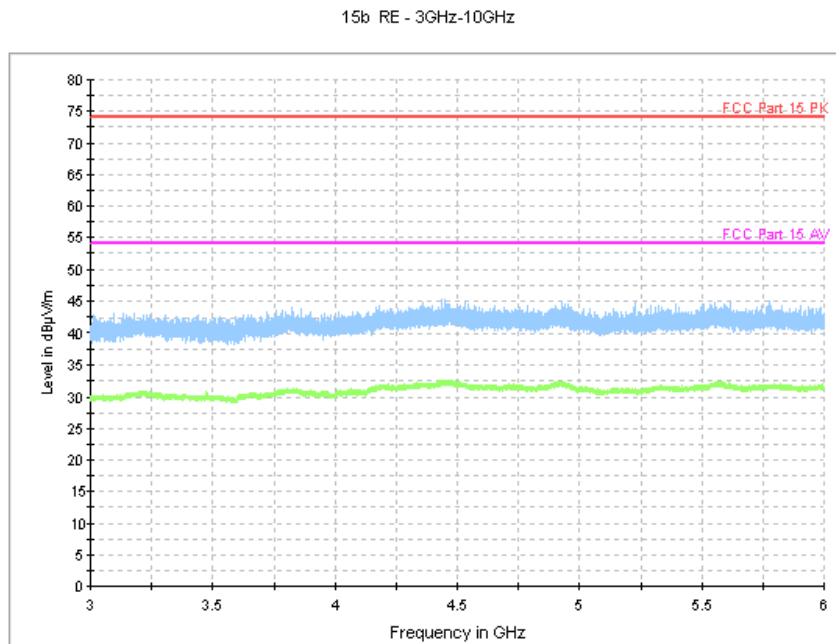


Figure A.9 Radiated Emission from 3GHz to 4GHz (Set.3, Charging mode)

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 (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | 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 |

| IF Bandwidth | Sweep Time(s) |
|--------------|---------------|
| 9kHz | 1 |

A.2.5 Measurement Results

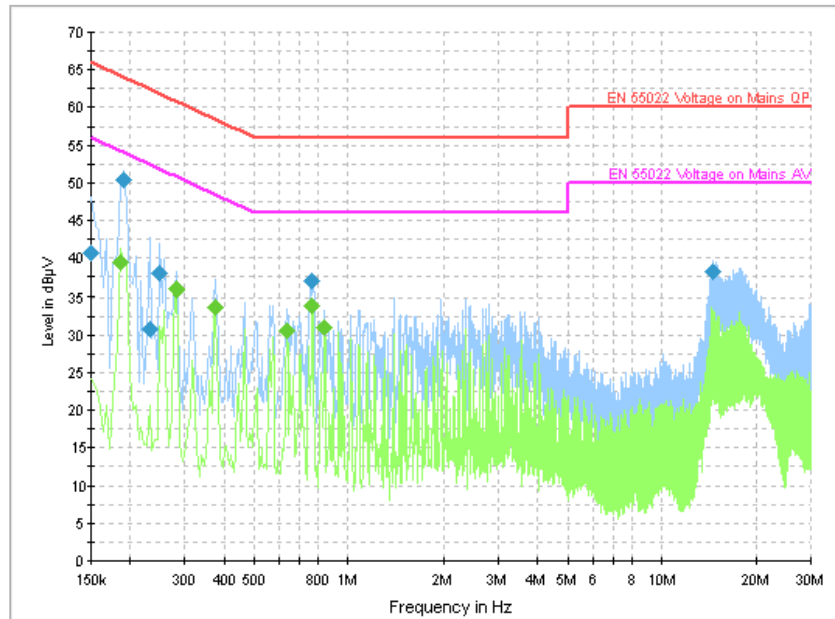


Figure A.10 Conducted Emission (Set.1, USB mode)

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.150001 | 40.6 | GND | L1 | 9.9 | 25.4 | 66.0 |
| 0.190501 | 50.3 | GND | L1 | 9.9 | 13.7 | 64.0 |
| 0.231001 | 30.7 | GND | L1 | 9.9 | 31.7 | 62.4 |
| 0.249001 | 38.1 | GND | N | 9.9 | 23.7 | 61.8 |
| 0.766501 | 37.0 | GND | L1 | 9.9 | 19.0 | 56.0 |
| 14.532001 | 38.1 | GND | N | 9.6 | 21.9 | 60.0 |

Final Result 2

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----|------|------------|-------------|--------------|
| 0.186001 | 39.5 | GND | N | 9.9 | 14.7 | 54.2 |
| 0.280501 | 36.0 | GND | N | 9.9 | 14.8 | 50.8 |
| 0.375001 | 33.7 | GND | L1 | 9.9 | 14.7 | 48.4 |
| 0.636001 | 30.6 | GND | L1 | 9.9 | 15.4 | 46.0 |
| 0.766501 | 33.8 | GND | L1 | 9.9 | 12.2 | 46.0 |
| 0.838501 | 31.0 | GND | L1 | 9.9 | 15.0 | 46.0 |

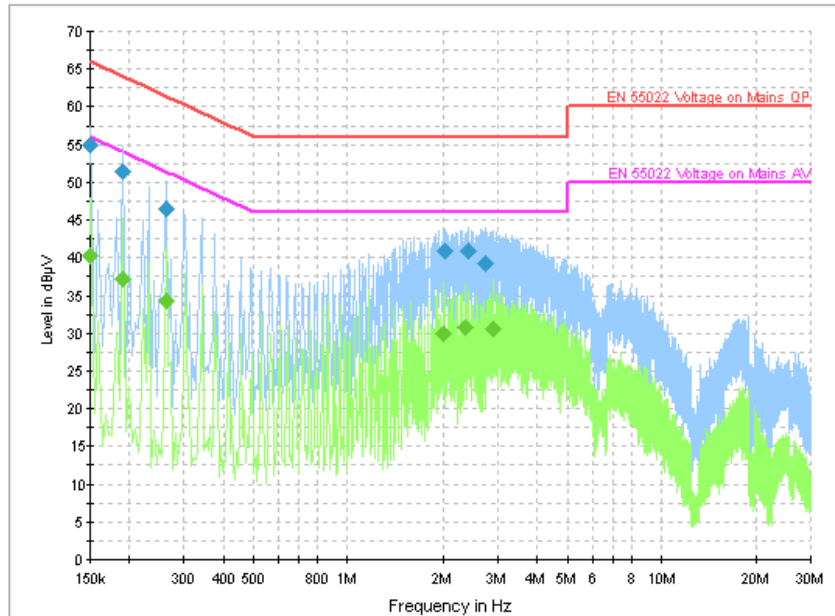


Figure A.11 Conducted Emission (Set.2, Charging mode)

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.150001 | 55.0 | GND | L1 | 9.9 | 11.0 | 66.0 |
| 0.190501 | 51.3 | GND | L1 | 9.9 | 12.7 | 64.0 |
| 0.262501 | 46.4 | GND | L1 | 9.9 | 14.9 | 61.4 |
| 2.035501 | 40.9 | GND | N | 9.9 | 15.1 | 56.0 |
| 2.418001 | 40.9 | GND | N | 9.9 | 15.1 | 56.0 |
| 2.737501 | 39.2 | GND | N | 9.9 | 16.8 | 56.0 |

Final Result 2

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----|------|------------|-------------|--------------|
| 0.150001 | 40.3 | GND | L1 | 9.9 | 15.7 | 56.0 |
| 0.190501 | 37.3 | GND | L1 | 9.9 | 16.7 | 54.0 |
| 0.262501 | 34.2 | GND | L1 | 9.9 | 17.2 | 51.4 |
| 1.995001 | 29.9 | GND | N | 9.9 | 16.1 | 46.0 |
| 2.341501 | 30.7 | GND | N | 9.9 | 15.3 | 46.0 |
| 2.904001 | 30.6 | GND | N | 9.9 | 15.4 | 46.0 |

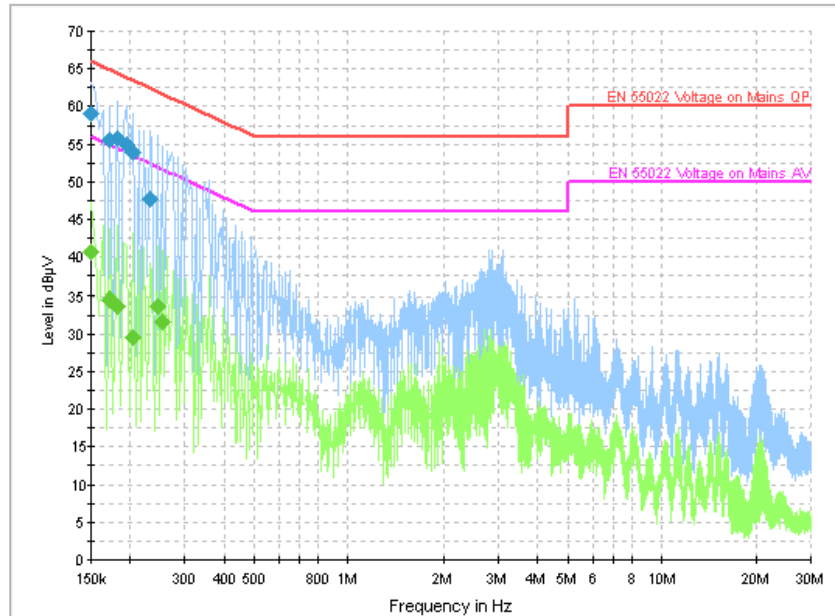


Figure A.12 Conducted Emission (Set.3, Charging mode)

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.150001 | 59.0 | GND | L1 | 9.9 | 7.0 | 66.0 |
| 0.172501 | 55.5 | GND | L1 | 9.9 | 9.3 | 64.8 |
| 0.181501 | 55.7 | GND | L1 | 9.9 | 8.7 | 64.4 |
| 0.195001 | 55.0 | GND | L1 | 9.9 | 8.8 | 63.8 |
| 0.204001 | 54.0 | GND | L1 | 9.9 | 9.5 | 63.4 |
| 0.231001 | 47.7 | GND | L1 | 9.9 | 14.7 | 62.4 |

Final Result 2

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----|------|------------|-------------|--------------|
| 0.150001 | 40.6 | GND | L1 | 9.9 | 15.4 | 56.0 |
| 0.172501 | 34.4 | GND | L1 | 9.9 | 20.4 | 54.8 |
| 0.181501 | 33.8 | GND | L1 | 9.9 | 20.7 | 54.4 |
| 0.204001 | 29.6 | GND | L1 | 9.9 | 23.8 | 53.4 |
| 0.244501 | 33.8 | GND | L1 | 9.9 | 18.2 | 51.9 |
| 0.253501 | 31.6 | GND | L1 | 9.9 | 20.0 | 51.6 |

END OF REPORT